REVISION 0

ST. LOUIS DOWNTOWN SITE ANNUAL ENVIRONMENTAL MONITORING DATA AND ANALYSIS REPORT FOR CALENDAR YEAR 2010

ST. LOUIS, MISSOURI

JULY 8, 2011

U.S. Army Corps of Engineers
St. Louis District Office
Formerly Utilized Sites Remedial Action Program

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prepared by:
U.S. Army Corps of Engineers, St. Louis District Office,
Formerly Utilized Sites Remedial Action Program

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LIST OF ACRONYMS AND ABBREVIATIONS

Ac	actinium
AEC	U.S. Atomic Energy Commission
amsl	above mean sea level
ARAR	applicable or relevant and appropriate requirement
ATD	alpha track detector
BNSF	Burlington Northern Santa Fe
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	*Code of Federal Regulations*
Ci	curies
COC	contaminant of concern
CY	calendar year
DL	detection limit
DOD	U.S. Department of Defense
DOD-QSM	*DOD Quality Systems Manual for Environmental Laboratories*
DQO	data quality objective
EDE	effective dose equivalent
ELAP	Environmental Laboratory Accreditation Program
EMDAR	Environmental Monitoring Data and Analysis Report
EMG	*Environmental Monitoring Guide for the St. Louis Sites*
EMICY	Environmental Monitoring Implementation for Calendar Year
EMICY10	*Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2010*
EMP	Environmental Monitoring Program
FFA	Federal Facility Agreement
ft	feet
FUSRAP	Formerly Utilized Sites Remedial Action Program
GRAAA	Ground-Water Remedial Action Alternative Assessment
HU	hydrostratigraphic unit
ICP	inductively coupled plasma
IL	investigative limit
K	potassium
KPA	kinetic phosphorescence analysis
MARSSIM	*Multi-Agency Radiation Survey and Site Investigation Manual*
MDA	minimum detectable activity
MDC	minimum detectable concentration
MDL	method detection limit
MED	Manhattan Engineer District
mrem/yr	millirem per year
MSD	Metropolitan St. Louis Sewer District
mSv/yr	milliseivert per year
NAD	normalized absolute difference
NAD 83	North American Datum of 1983
NESHAP	National Emissions Standards for Hazardous Air Pollutants
Pa	protactinium
pCi/L	picocurie per liter
QA	quality assurance
QAPP	Quality Assurance Program Plan

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

QC	quality control
RA	remedial action
Ra	radium
Rn	radon
ROD	*Record of Decision for the St. Louis Downtown Site*
RPD	relative percent difference
SAG	*Sampling and Analysis Guide for the St. Louis Sites*
SAIC	Science Applications International Incorporation
SLDS	St. Louis Downtown Site
SLS	St. Louis Sites
SOP	standard operating procedure
SU	survey unit
TEDE	total effective dose equivalent
Th	thorium
TLD	thermoluminescent dosimeter
U	uranium
UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VP	vicinity property
µCi/mL	microcurie per milliliter
µg/L	microgram per liter

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EXECUTIVE SUMMARY

This Annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2010 applies to the St. Louis Downtown Site (SLDS) within the Formerly Utilized Sites Remedial Action Program (FUSRAP) (Figure 1-1). This EMDAR provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program for the SLDS within the FUSRAP. The SLDS consists of the Mallinckrodt Chemical Works (Mallinckrodt) plant and vicinity properties (Figure 1-2). Mallinckrodt is now owned and operated by Covidien. Environmental monitoring of various media at SLDS is required under the Comprehensive Environmental Response, Compensation, and Liability Act, a commitment outlined in the Federal Facility Agreement, and under the commitments in the *Record of Decision for the St. Louis Downtown Site* (ROD) (USACE 1998a).

The purpose of this report is:

1) to document the environmental monitoring activities, and
2) to assess whether the remedial actions had a measurable environmental impact by:
    a) summarizing the data collection effort for CY 2010,
    b) reporting the current condition of the SLDS, and
    c) providing an analysis of the environmental monitoring data to date.

The U.S. Army Corps of Engineers (USACE), St. Louis District, collects comprehensive environmental data for decision-making and planning purposes. Environmental monitoring, performed as a Best Management Practice or as a component of remedial action, serves as a critical component in the evaluation of the current status of residual contaminants and assessment of the potential future migration of residual contaminants.

All environmental monitoring required through implementation of the *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2010* (EMICY10) (USACE 2010) was conducted as planned during CY 2010. The evaluation of environmental monitoring data for SLDS demonstrates compliance with applicable or relevant and appropriate requirements (ARARs).

RADIOLOGICAL AIR MONITORING

Radiological air data was collected and evaluated at the SLDS through airborne radioactive particulate, outdoor radon, and gamma radiation monitoring, as required in the EMICY10. In addition to environmental monitoring purposes, radiological air data was also used as inputs to calculate total effective dose equivalent to the hypothetical maximally exposed individual at the SLDS.

The total effective dose equivalent calculated for the hypothetical maximally exposed individual at the SLDS was 0.2 millirem per year (0.002 milliseivert per year). The results of the radiological air monitoring conducted at the SLDS demonstrated compliance with ARARs for the SLDS.

EXCAVATION-WATER DISCHARGE MONITORING AT THE SLDS

CY 2010 was the twelfth year that excavation-water discharge from the SLDS was monitored and reported. Excavation water from the SLDS was discharged to the sanitary sewer system in compliance with the requirements stated in the July 23, 2001, SLDS Metropolitan St. Louis Sewer District (MSD) authorization letter (MSD 2001) and amended in the October 13, 2004,

SLDS MSD letter (MSD 2004). This authorization was extended through the issuance of letters dated June 19, 2006, May 22, 2008, and May 10, 2010 (MSD 2006, 2008, 2010). This authorization expires July 23, 2012 (MSD 2010). During CY 2010, no exceedances of the MSD limits occurred at the SLDS.

GROUND-WATER MONITORING

Ground water was sampled during CY 2010 at the SLDS. Ground water was sampled following a protocol for individual wells and analytes, and analyzed for various radiological constituents and inorganic parameters. Static ground-water elevations for all SLDS wells were measured quarterly.

The environmental sampling requirements and ground-water criteria for each analyte are consistent with the EMICY10. The ground-water criteria are used for comparison and discussion purposes. The criteria for assessing ground-water sampling data at the SLDS are the investigative limits (ILs) as identified in the ROD (USACE 1998a) and are presented in Table 2-6 of the EMICY10 and in Section 4.0 of this report. For those stations where an analyte exceeded the ground-water criteria at least once during CY 2010 and sufficient data were available to evaluate trends, Mann-Kendall statistical trend analyses were completed to assess whether analyte concentrations were increasing or decreasing through time.

During CY 2010, two hydrostratigraphic unit (HU)-A monitoring wells (B16W06S and B16W12S) were sampled. B16W06S was sampled twice for arsenic and cadmium during the second and fourth quarters. B16W12S was sampled once for arsenic and cadmium, and for Radium (Ra)-226, Ra-228, Thorium (Th)-228, Th-230, Th-232, Uranium (U)-234, U-235, and U-238 during the fourth quarter. Because the historical results for these contaminants of concern (COCs) were generally below or only slightly above their detection limits, a trend analysis was not conducted for cadmium, Th-228, U-234, or U-238. Trend analysis was conducted for arsenic in B16W06S and total U in B16W12S. Based on the graph and a quantitative evaluation of the trend using the Mann-Kendall trend test (presented in Section 4.2.3), there is a downward trend in arsenic concentrations at B16W06S and no significant increase in total U concentrations at B16W12S. The remaining SLDS COCs (Ra-226, Ra-228, Th-230, Th-232, and U-235) were not detected in HU-A ground water during CY 2009.

During CY 2010, eight SLDS wells completed in the Mississippi Alluvial Aquifer (HU-B) were sampled. For HU-B, three COCs exceeded the ROD ILs during CY 2010: arsenic in B16W08D and DW18, cadmium in B16W09D and DW17, and total U in DW19. However, the detection frequency for cadmium in B16W09D and DW17 did not exceed 50 percent so Mann-Kendall testing was not conducted for this analyte. Mann-Kendall testing was conducted for total U in the HU-B well DW19 and arsenic in the HU-B wells B16W09D and DW18. The results of the tests indicate B16W09D exhibits no trend and DW18 exhibits an upward trend for arsenic. The Mann-Kendall test results indicate that there is no trend for total U in HU-B well DW19, but levels have remained above the IL since 1999.

Potentiometric surface maps were created from ground-water elevations measured in May and December to illustrate ground-water flow conditions in wet and dry seasons, respectively. The ground-water surface in HU-A under the eastern portion of the Mallinckrodt plant is generally sloping toward the Mississippi River. Both the May and December 2010 potentiometric surface maps indicate the presence of relatively low hydraulic gradients in the vicinity of DW19. The potentiometric surface maps for HU-B at the SLDS indicate flow direction at the site is generally northeastward toward the Mississippi River.

1.0 HISTORICAL SITE BACKGROUND AND CURRENT SITE STATUS

1.1 INTRODUCTION

This Annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2010 applies to the St. Louis Downtown Site (SLDS) within the Formerly Utilized Sites Remedial Action Program (FUSRAP) (Figure 1-1). This EMDAR provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program (EMP) for the SLDS within the FUSRAP. The SLDS comprises a large chemical manufacturing complex formerly owned and operated by Mallinckrodt, Inc., and adjacent commercial and city-owned vicinity properties (VPs) (Figure 1-2). The chemical manufacturing complex is now owned and operated by Covidien. For the purpose of this document, the property will be referred as the "Mallinckrodt" plant. Environmental monitoring of various media at SLDS is required under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), a commitment outlined in the Federal Facility Agreement (FFA), and under the commitments in the *Record of Decision for the St. Louis Downtown Site* (ROD) (USACE 1998a).

1.2 PURPOSE

The purpose of this report is to document the environmental monitoring activities and to assess whether the remedial actions (RAs) being performed at the SLDS could be having a measurable environmental impact. In addition, this report serves to enhance the reader's awareness of the current condition of the SLDS, summarizes the data collection efforts for CY 2010, and provides analysis of the CY 2010 environmental monitoring data results. This document presents the following information:

- Sample collection data for various media at SLDS and interpretation of CY 2010 EMP results;
- The status of SLDS regarding compliance with federal and state applicable or relevant and appropriate requirements (ARARs) or other benchmarks;
- Dose assessments for radiological contaminants as appropriate at SLDS;
- A summary of trends based on changes in contaminant concentrations to support RAs, public safety, and maintain surveillance monitoring requirements at SLDS; and
- The identification of data gaps and future EMP needs.

1.3 ST. LOUIS SITE PROGRAM AND SITE BACKGROUND

FUSRAP was executed by the U.S. Atomic Energy Commission (AEC) in 1974 to identify, remediate, or otherwise control sites where residual radioactivity remains from operations conducted for the Manhattan Engineer District (MED) and AEC during the early years of the nation's atomic energy program. FUSRAP was continued by the follow-on agencies to the AEC until 1997, when the U.S. Congress transferred responsibility for FUSRAP to the U.S. Army Corps of Engineers (USACE).

The SLDS properties were involved with some of the following operations: refining of uranium (U) ores, production of uranium metal and compounds, uranium recovery from residues and scrap, and the storage and disposal of associated process byproducts. The processing activities

were conducted in parts of the SLDS under contract to the MED/AEC between the early 1940s and the 1950s.

Detailed descriptions and histories for SLDS can be found in the *Remedial Investigation Report for the St. Louis Site,* St. Louis, Missouri (DOE 1994); *Remedial Investigation Addendum for the St. Louis Site,* St. Louis, Missouri (DOE 1995); *Record of Decision for the St. Louis Downtown Site* (USACE 1998a); and the *Environmental Monitoring Guide for the St. Louis Sites* (EMG) (USACE 1999a).

During CY 2010, the following documents were finalized:

- *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2010*, St. Louis, Missouri (February 1);
- *Pre-Design Investigation Data Summary Report, Terminal Railroad Association Vicinity Property (DT-9), FUSRAP St. Louis Downtown Site*, St. Louis, Missouri (April 7);
- *Pre-Design Investigation Data Summary Report, Burlington Northern Santa Fe Railroad Vicinity Property (DT-12), FUSRAP St. Louis Downtown Site*, St. Louis, Missouri (April 21);
- *Burlington Northern Santa Fe Railroad Vicinity Property (DT-12) Remediation Activity Work Description, FUSRAP St. Louis Downtown Site, St. Louis, Missouri (Appendix A.13.1 of the Small Area Remediation Work Area-Specific Description*, Revision 1, August 5, 2005, Reissued August 15, 2007) (April 22);
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soils within the St. Louis Downtown Site Vicinity Property Thomas and Proetz Lumber Company (DT-10)*, St. Louis Missouri (July 12);
- *St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2009*, St. Louis, Missouri (August 5);
- *Second Five-Year Review Report for Formerly Utilized Sites Remedial Action Program (FUSRAP) St. Louis Sites*, St. Louis, Missouri (September 22);
- *Pre-Design Investigation and Final Status Survey Evaluation for Accessible Soils within the St. Louis Downtown Site Vicinity Properties DT-5, DT-13, DT-14, DT-16, DT-18, and the Second Street Corridor*, St. Louis, Missouri (October 25); and
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soils within the St. Louis Downtown Site Northeast Corner of Plant 9 and Security Gate Number 49 Area*, St. Louis, Missouri (November 2).

1.3.1 St. Louis Downtown Site CY 2010 Remedial Actions

During CY 2010, RAs were performed at the following SLDS sites (Figure 1-2): Plant 6 West Half 2B, Plant 7 North Hazardous Waste Storage Area, Plant 7 South, City Property VP (DT-2) Phase 1 West of the Levee, and Burlington Northern Santa Fe (BNSF) Railroad VP (DT-12). The excavation and restoration activities continued at Plant 6 West Half 2B throughout the year. Restoration activities at City Property VP (DT-2) Phase 1 West of the Levee continued in the first and second quarters, before completion in the third quarter. Excavation and restoration activities at BNSF Railroad VP (DT-12) began in the second quarter and continued throughout the remainder of the year. Excavation and restoration activities at Plant 7 South began and were completed in the fourth quarter. Excavation activities at Plant 7N Hazardous Waste Storage Area

began in the fourth quarter. A total of 14,193 cubic yards of contaminated material were excavated from the SLDS. All of the contaminated material was shipped via railcar to U.S. Ecology in Idaho for proper disposal.

During CY 2010, *Multi-Agency Radiation Survey and Site Investigation Manual* (*MARSSIM*) (DOD 2000) Class 1 verifications were performed at the following SLDS sites: Plant 6 West Half 2B (survey unit [SU]-9, SU-10, and SU-11), Plant 7S (SU-7), and BNSF Railroad VP (DT-12) (SU-1, SU-2, and SU-3). No MARSSIM Class 2 or 3 verifications were performed. Verifications at SLDS were performed to confirm that the remediation goals of the ROD were achieved. SLDS and related VPs are shown on Figure 1-2.

In accordance with the Metropolitan St. Louis Sewer District (MSD) authorization letter for SLDS, 1,970,228 gallons of excavation water were discharged in CY 2010. Since the beginning of the project, 12,475,821 gallons have been treated and released to MSD at the SLDS.

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2.0 EVALUATION OF RADIOLOGICAL AIR MONITORING DATA

This section documents environmental monitoring activities related to radiological air data. The radiological air measurements taken at the SLDS are conducted as part of the EMP. Radiological air data is collected to evaluate the compliance status of each site with respect to ARARs, to evaluate trends, and to perform dose assessments for radiological contaminants, as appropriate, at each site. Section 2.1 includes a description of the types of radiological measurements conducted at the SLDS, potential sources of the contaminants to be measured (including natural background), and measurement techniques employed during CY 2010.

All radiological air monitoring required through implementation of the *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2010* (EMICY10) (USACE 2010) was conducted as planned during CY 2010. The evaluations of radiological air monitoring data for all SLDS demonstrate compliance with ARARs.

A total effective dose equivalent (TEDE) for the reasonably maximally exposed member of the public was calculated for the SLDS by summing the dose due to gamma radiation, radiological air particulates, and radon (Rn). The TEDE for the reasonably maximally exposed individual at the SLDS was 0.2 millirem per year (mrem/yr) (0.002 millisievert per year [mSv/yr]). The TEDE for the SLDS was well below the 10 *Code of Federal Regulations* (*CFR)* 20.1301 limit for members of the public, which is 100 mrem/yr (1 mSv/yr). Details of the radiological dose assessment (TEDE calculation) are presented in Section 6.0.

2.1 RADIOLOGICAL AIR MEASUREMENTS

The three types of radiological air monitoring that were conducted at the St. Louis Sites (SLS) during CY 2010 are gamma radiation, airborne radioactive particulates, and airborne radon. Section 2.2 provides details of the monitoring conducted at the SLDS.

2.1.1 Gamma Radiation

Gamma radiation is emitted from natural, cosmic, and manmade sources. The earth naturally contains gamma radiation-emitting substances, such as U decay series, thorium (Th) decay series, and potassium (K)-40. Cosmic radiation originates in outer space and filters through the atmosphere to the earth. Together, these two sources make up the majority of natural gamma background radiation. The United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) estimates that the total naturally occurring background radiation dose equivalent due to gamma exposure is 65 mrem/yr (0.65 mSv/yr), 35 mrem/yr (0.35 mSv/yr) of which originates from sources on earth and 30 mrem/yr (0.3 mSv/yr) of which originates from cosmic sources (UNSCEAR 1982). The background monitoring locations for the SLS (Figure 2-1) are reasonably representative of background gamma radiation for the St. Louis Metropolitan Area.

Gamma radiation was measured at the SLDS during CY 2010 using thermoluminescent dosimeters (TLDs). TLDs were located at locations representative of areas accessible to the public in order to provide input for calculation of TEDE.

The TLDs were placed at the monitoring location approximately three feet (ft) above the ground surface inside a housing shelter. The TLDs were collected quarterly and sent to a properly certified, off-site laboratory for analysis.

2.1.2 Airborne Radioactive Particulates

2.1.2.1 Air Sampling

Airborne radioactive particulates result from radionuclides in soils that become suspended in the air. The radionuclides in soil normally become airborne as a result of wind erosion of the surface soil or as a result of the soil being disturbed (e.g., excavation). This airborne radioactive material includes naturally occurring background concentrations, as well as above background concentrations of radioactive materials present at the SLDS.

Airborne radioactive particulates were measured at the SLDS by drawing air through a filter membrane with an air sampling pump placed approximately three feet above the ground, and then analyzing the material contained on the filter. The results of the analysis, when compared to the amount of air drawn through the filter, were reported as radioactive contaminant concentrations (i.e., microcurie per milliliter [μCi/mL]). Particulate air monitors were located in predominant wind directions at excavation and loadout area perimeter locations, as appropriate, to provide input for the National Emissions Standard for Hazardous Air Pollutants (NESHAP) Report and calculation of TEDE to the critical receptor. Air particulate samples were typically collected weekly or more frequently.

2.1.2.2 Estimation of Emissions in Accordance with the National Emissions Standard for Hazardous Air Pollutants

The SLDS CY 2010 NESHAP Report (provided as Appendix A) presents the calculation of the effective dose equivalent (EDE) from radionuclide emissions to critical receptors in accordance with the NESHAP. The report is prepared in accordance with the requirements and procedures contained in 40 *CFR* 61, Subpart I.

Emission rates calculated using air sampling data, activity fractions, and other site-specific information were used for the SLDS as inputs to the U.S. Environmental Protection Agency (USEPA) CAP88-PC Version 3.0 modeling code (USEPA 2007) to demonstrate compliance with the 10 mrem/yr ARAR in 40 *CFR* 61, Subpart I.

The SLDS was in compliance with the 10 mrem/yr ARAR in 40 *CFR* 61, Subpart I. Results from 2010 demonstrating compliance are discussed in Section 2.2.1.

2.1.3 Airborne Radon

U-238 is a naturally occurring radionuclide that is commonly found in soil and rock. (Rn)-222 is a naturally occurring radioactive gas found in the U decay series. A fraction of the radon produced from the radioactive decay of naturally occurring U-238 diffuses from soil and rock into the atmosphere, accounting for natural background airborne radon concentrations. In addition to this natural source, radon is produced from the above background concentrations of radioactive materials present at the SLDS.

Outdoor airborne radon concentration is governed by the emission rate and dilution factors, both of which are strongly affected by meteorological conditions. Surface soil is the largest source of radon. Secondary contributors include oceans, natural gas, geothermal fluids, volcanic gases, ventilation from caves and mines, and coal combustion. Radon levels in the atmosphere have been observed to vary with height above the ground, season, time of day, and location. The chief meteorological parameter governing airborne radon concentration is atmospheric stability; however, the largest variations in atmospheric radon occur spatially (USEPA 1987).

Radon alpha track detectors (ATDs) were used at the SLDS to measure alpha particles emitted from radon and its associated decay products. Radon ATDs were co-located with environmental TLDs three feet above the ground surface in housing shelters at locations representative of areas accessible to the public. Outdoor ATDs were collected approximately every six months and sent to an off-site laboratory for analysis. Recorded radon concentrations are listed in picocurie per liter (pCi/L), and are compared to the value of 0.5 pCi/L average annual concentration above background as listed in 40 *CFR* 192.02(b).

The SLDS was in compliance with the 0.5 pCi/L ARAR in 40 *CFR* 192.02(b). Results from 2010 demonstrating compliance are discussed in Section 2.2.3.

2.2 EVALUATION OF RADIOLOGICAL AIR MONITORING DATA

2.2.1 Evaluation of Gamma Radiation Data

Gamma radiation monitoring was performed at the SLDS during CY 2010 at four locations that were representative of areas accessible to the public (see Figure 2-1) and at the background location to compare on-site/off-site exposure and to provide input for calculation of TEDE to the critical receptor. The EMP uses two TLDs at Monitoring Station DA-1 (for each monitoring period) to provide additional quality control (QC) of monitoring data. A summary of TLD monitoring results for CY 2010 at the SLDS is shown in Table 2-1. TLD data is located in Appendix B of this report.

Table 2-1. Summary of SLDS Gamma Radiation Data

Monitoring Location	Monitoring Station	First Quarter TLD Data (mrem/qtr) Reported/ Corrected		Second Quarter TLD Data (mrem/qtr) Reported/ Corrected		Third Quarter TLD Data (mrem/qtr) Reported/ Corrected		Fourth Quarter TLD Data (mrem/qtr) Reported/ Corrected		CY 2010 Net TLD Data (mrem/yr)
		Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	
SLDS Perimeter	DA-1	14.7	0.6	21.7	3.9	18.9	0.2	19.9	0.0	5
Duplicate[c]	DA-1	16.3	2.3	19.9	2.0	20	1.4	21.7	0.7	---
SLDS Perimeter	DA-2	15.3	1.2	20.7	2.9	21.9	3.6	19.9	0.0	8
	DA-3	12.9	0.0	17.8	0.0	17.8	0.0	17.2	0.0	0
	DA-6	14.5	0.3	20.3	2.4	20.1	1.6	19.8	0.0	4
Background	BA-1	14.2	---	18	---	18.7	---	21.1	---	---

[a] All quarterly data reported from the vendor have been normalized to exactly one quarter's exposure above background.
[b] CY 2010 net TLD data are corrected for background, shelter absorption (s/a = 1.075), and fade.
[c] A QC duplicate is collected at the same time and location and is analyzed by the same method for evaluating precision in sampling and analysis. Duplicate sample results were not included in calculations.
--- Result calculation not required.
mrem/qtr = millirem per quarter

2.2.2 Evaluation of Airborne Radioactive Particulate Data

Air sampling for radiological particulates was not conducted at the SLDS perimeter locations during CY 2010 due to the insignificant potential for material to become airborne at the site. The ground surface at the SLDS is generally covered with asphalt or concrete, which limits the potential for material to become airborne. Air sampling for radiological particulates during CY 2010 was conducted by the RA contractor at the perimeter of each active excavation and loadout area within the SLDS. Air particulate data were used as inputs to the NESHAP Report (Appendix A) and calculation of TEDE to the critical receptor (Section 6.0). A summary of air particulate monitoring data from excavation perimeters is shown in Table 2-2. Airborne radioactive particulate data is located in Appendix B of this report.

Table 2-2. Summary of SLDS Airborne Radioactive Particulate Data

Monitoring Location	Average Concentration (μCi/mL)	
	Gross Alpha	Gross Beta
Plant 6	5.7E-15	2.8E-14
DT-12 BNSF	5.3E-15	2.2E-14
Background Concentration[a]	2.5E-15	1.8E-14

[a] These concentrations are only provided for informational purposes.

2.2.3 Evaluation of Outdoor Airborne Radon Data

Outdoor airborne radon monitoring was performed at the SLDS using ATDs to measure radon emissions. Four detectors were co-located with the TLDs at locations shown in Figure 2-2. One additional detector was located at Monitoring Station DA-1 as a QC duplicate. A background ATD, co-located with the background TLD (see Section 2.2.1), was used to compare on-site exposure and off-site background exposure. In accordance with 40 *CFR* 192.02(b)(2), control of residual radioactive materials from a uranium mill tailings pile must be designed to provide reasonable assurance that releases of radon to the atmosphere will not increase the annual average concentration of radon outside the disposal site by more than 0.5 pCi/L. Outdoor airborne radon data was used as an input for calculation of TEDE to the critical receptor (Section 6) and compared to the 0.5 pCi/L average annual concentration above background value as listed in 40 *CFR* 192.02(b). The average annual radon concentration above background of 0.0 pCi/L at the SLDS monitoring stations met the 40 *CFR* 192.02(b)(2) limit of 0.5 pCi/L. A summary of outdoor airborne radon data is shown in Table 2-3. Outdoor ATD data is located in Appendix B of this report.

Table 2-3. Summary of SLDS Outdoor Airborne Radon (Rn-222) Data

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/07/10 to 07/07/10 [a] (uncorrected)	07/07/10 to 01/04/11[a] (uncorrected)	Average Annual Concentration[b]
SLDS	DA-1	0.2	0.2	0.0
Duplicate[c]	DA-1	0.3	0.2	---
SLDS	DA-2	0.3	0.2	0.1
	DA-3	0.3	0.2	0.1
	DA-6	0.3	0.2	0.1
Background	BA-1	0.2	0.2	---

[a] Detectors were installed and removed on the dates listed. Data are as reported from the vendor (gross data including background).
[b] Results reported from vendor for two periods are time-weighted and averaged to estimate an annual average radon concentration (pCi/L) above background.
[c] A QC duplicate is collected at the same time and location and is analyzed by the same method for evaluating precision in sampling and analysis.
--- Result calculation not required.

3.0 EXCAVATION-WATER MONITORING DATA

This section provides a description of the excavation-water discharge monitoring activities conducted at the SLDS during CY 2010. Excavation water is storm water and ground water that accumulates in excavations that are present at the SLDS as a result of RAs. Excavation-water effluent from the SLDS is discharged to a combined (sanitary and storm) sewer inlet located at the SLDS and flows to the Bissell Point Sewage Treatment Plant under a special discharge authorization. This excavation water is collected, treated, and tested before being discharged to MSD inlet 17D4-353C. The excavation-water discharge location (sewer inlet) utilized at the SLDS is shown on Figure 3-1.

The purpose of excavation-water discharge sampling at the SLDS is to maintain compliance with specific discharge limits to ensure protection of human health and the environment. The MSD is the regulatory authority for water discharges and has issued authorization letters for the SLDS that allow discharges of excavation water that meet discharge-limit-based criteria (MSD 1998, 2001, 2004, 2006, 2008, 2010). On October 30, 1998, the USACE received an MSD conditional authorization letter to discharge the excavation water collected at the SLDS resulting from USACE RAs (MSD 1998). On July 23, 2001, the MSD issued a separate conditional discharge authorization letter for discharges of excavation water that result from USACE RAs (MSD 2001). The MSD issued a change to the self-monitoring and special discharge authorization for the SLDS on October 13, 2004, and issued a two-year extension to that authorization dated June 19, 2006 (MSD 2004, 2006). On May 22, 2008, the MSD issued an extension to the special discharge authorization for the SLDS that remained in effect until July 23, 2010 (MSD 2008). On May 10, 2010, the MSD issued an extension to the special discharge authorization for the SLDS that remains in effect until July 23, 2012 (MSD 2010). The results obtained from these monitoring activities are presented and evaluated with respect to the discharge limits as described in the EMICY10 (USACE 2010).

Section 2.2.2 of the EMICY10 outlines the parameters and annual average discharge limits for the excavation-water discharges at the site (USACE 2010). For cases where the local regulatory authorities have not provided discharge limits for the SLDS radiological contaminants of concern (COCs), parameters from 10 *CFR* 20 Appendix B water effluent values were used.

3.1 EVALUATION OF EXCAVATION-WATER DISCHARGE MONITORING RESULTS AT THE SLDS

During CY 2010, approximately 1,970,228 gallons of excavation water from 12 batches were discharged to MSD inlet 17D4-353C. This MSD inlet is depicted on Figure 3-1. The analytical results for all measured parameters by batch, along with the total activity discharged for each parameter, are included in Appendix C, Table C-1. A summary of the number of discharges, gallons of water discharged, and total radiological activity for the CY 2010 excavation-water discharges is provided in Table 3-1. All excavation-water monitoring required through implementation of the EMICY10 was conducted as planned during CY 2010. The evaluation of monitoring data demonstrated compliance with all MSD criteria.

Table 3-1. Excavation Water Discharged at the SLDS During CY 2010

Quarter	Number of Discharges	Number of Gallons Discharged [a]	Total Activity (Ci)		
			Th[b]	U (KPA) [c]	Ra[d]
1	3	42,554	2.3E-07	4.5E-05	1.5E-07
2	3	475,274	5.0E-06	1.8E-03	2.5E-06
3	3	1,336,026	2.0E-05	1.6E-03	7.2E-06
4	3	116,374	1.9E-06	7.7E-05	8.7E-07
Annual Totals	12	1,970,228	2.7E-05	3.5E-03	1.1E-05

[a] Quantities based on actual quarterly discharges from SLDS.
[b] Calculated value based on the addition of isotopic analyses: Th-228, Th-230, and Th-232.
[c] Activity based on total U results (kinetic phosphorescence analysis [KPA]).
[d] Calculated value based on the addition of isotopic analyses: Radium (Ra)-226 and Ra-228.

4.0 GROUND-WATER MONITORING DATA

Ten ground-water monitoring wells were sampled at the SLDS during CY 2010. Ground water was sampled following a protocol for individual wells and analytes, and was analyzed for various radiological constituents and inorganic analytes. Static water levels were measured quarterly at the SLDS. In addition, field parameters were measured continuously during purging of the wells prior to sampling. The ground-water field parameter results for CY 2010 sampling at the SLDS are presented in Appendix D, Table D-1. Summary tables providing the SLDS ground-water analytical sampling results for CY 2010 are found in Appendix D, Table D-2.

Stratigraphy at the SLDS

Ground water at the SLDS is found within three hydrostratigraphic units (HUs). These units are, in order of increasing depth, the Upper HU (HU-A), which consists of fill overlying clay and silt; the Lower HU (HU-B), also referred to as the Mississippi Alluvial Aquifer, consisting of sandy silts and silty sands; and the Limestone Bedrock Unit, referred to as HU-C (Figures 4-1 and 4-2). The upper unit, HU-A, is not an aquifer and is not considered a potential source of drinking water because it has insufficient yield and poor natural water quality. HU-B is one of the principal aquifers in the St. Louis area, but expected future use as drinking water at the SLDS is minimal because the Mississippi and Missouri Rivers provide a readily available source and the water from the aquifer is of poor quality due to elevated concentrations of iron and manganese. HU-C would be an unlikely water supply source, as it is a deeper and less productive HU. As shown in the geologic cross-section of the SLDS (Figure 4-2), the erosional surface of the bedrock dips eastward toward the river. HU-A overlies HU-B on the eastern side of the SLDS and overlies bedrock on the western side of the SLDS. HU-B thins westerly along the bedrock surface until it becomes absent beneath the SLDS. HU-C underlies the unconsolidated sediments at depths ranging from 6 m (19 ft) on the western side of SLDS to 24 m (80 ft) near the Mississippi River.

Ground-Water Criteria

The CY 2010 monitoring data for HU-B ground water at the SLDS are compared to the following ground-water criteria established in the ROD: 50 micrograms per liter (µg/L) arsenic, 5 µg/L cadmium, 20 µg/L total U, and 5 pCi/L combined Radium (Ra)-226 and Ra-228. The ROD did not establish ground-water criteria for HU-A ground water. An evaluation of concentration trends is conducted for COCs detected in HU-A.

Summary of CY 2010 Ground-Water Monitoring Results for the SLDS

With the exception of the decreasing arsenic concentration trends observed in one shallow well (B16W06S) and the increasing arsenic concentration trends observed in one deep well (DW18), no other significant changes in the concentrations of the COCs occurred in shallow or deep ground water during CY 2010. Trend analysis of the COCs detected in HU-A ground water indicates continued improvement in HU-A ground-water quality, as reflected in the decreasing trend in arsenic concentrations observed in HU-A well B16W06S. No trend was observed in total U concentrations for HU-A ground water in B16W12S.

The Mann-Kendall trend test results also indicate that there is a statistically significant increasing trend in arsenic concentrations in one HU-B well (DW18). Three COCs (arsenic, cadmium, and total U) were detected at concentrations above the ROD ground-water criteria in HU-B ground water during CY 2010. Based on the results of the Mann-Kendall trend analyses conducted for

HU-B ground water, one well (DW18) exhibits an upward trend in arsenic concentrations. However, the finding of an increasing trend does not take measurement error into account. For HU-B ground water, no trend was observed in arsenic concentrations in B16W09D or in total U concentrations in DW19.

4.1 GROUND-WATER MONITORING AT THE SLDS

The goal of the ground-water portion of the SLDS remedy is to maintain protection of the Mississippi Alluvial Aquifer (HU-B) and to establish the effectiveness of the source removal action. This goal is achieved by monitoring perimeter wells on a routine basis to ensure that there are no significant impacts from COCs on HU-B. The HU-B ground-water results for the SLDS COCs are compared to the following ROD ground-water criteria (USACE 1998a):

1) The investigative limits (ILs): 50 µg/L arsenic, 5 µg/L cadmium, and 20 µg/L total U; and
2) The concentration limits from the Uranium Mill Tailings Radiation Control Act regulations listed in 40 *CFR* 192.02, Table 1 to Subpart A: 5 pCi/L combined Ra-226 and Ra-228.

The concentration limits for other SLDS COCs listed in 40 *CFR* 192.02, Table 1 to Subpart A (50 µg/L arsenic, 10 µg/L cadmium, and 30 pCi/L combined U-234 and U-238) are not relevant or appropriate because these limits are equal to or less stringent than the ILs.

If monitoring of HU-B indicates that the concentrations of the SLDS COCs significantly exceed the above criteria, the ROD requires that a Ground-Water Remedial Action Alternative Assessment (GRAAA) be initiated to further assess the fate and transport of the COCs in HU-B and to determine if additional RAs are necessary. Total U concentrations were above the IL in HU-B well DW19 over an extended period, initiating Phase 1 of the GRAAA. The first phase of the GRAAA was completed in CY 2003 (USACE 2003). Phase 1 summarized the sampling data available for each of the monitoring wells completed in HU-B and provided recommendations for further investigation of HU-B. This EMDAR carefully reviews the HU-B data to provide additional information for future phases of the GRAAA. The ROD also specifies that a ground-water monitoring plan will be developed to assess the fate and transport of MED/AEC residual contaminants through and following the RA.

In addition to the above, an evaluation of concentration trends is conducted for the COCs detected above ROD ground-water criteria to support evaluation of the effectiveness of the RA in the CERCLA five-year reviews. The results of the trend analysis are presented in Section 4.2.3.

Because HU-A is not considered a potential source of drinking water, the ROD did not establish ground-water criteria for HU-A ground water. An evaluation of concentration trends is conducted for the COCs detected in HU-A ground water to support assessment of the effectiveness of the RA in the CERCLA five-year reviews.

4.2 EVALUATION OF GROUND-WATER MONITORING DATA

SLDS Monitoring Well Network

The EMP monitoring well network for the SLDS is shown on Figure 4-3. The screened HUs for the SLDS ground-water monitoring wells are identified in Table 4-1. Prior to initiating long-term monitoring of the HU-B aquifer, as specified by the ROD (USACE 1998a), there was no EMP sampling performed at the SLDS. In CY 2010, 10 monitoring wells (2 HU-A and 8 HU-B) were

sampled for radionuclides and inorganic COCs at the SLDS. No new ground-water monitoring wells were installed or transferred at the SLDS in CY 2010. In CY 2010, ground-water sampling at the SLDS was conducted on March 10 (first quarter); May 26 (second quarter); and December 20 through 22 (fourth quarter). No sampling was conducted at SLDS during the third quarter of CY 2010. The CY 2010 analytical results for the SLDS are presented in Appendix D, Table D-2. For discussion purposes, the ground-water analytical data acquired from the CY 2010 sampling events at the SLDS are presented separately for the HU-A and HU-B ground-water zones.

Table 4-1. Screened HUs for SLDS Ground-Water Monitoring Wells

Well ID	Screened HU
B16W06D	HU-B
B16W06S	HU-A
B16W07D	HU-B
B16W08D	HU-B
B16W08S	HU-A
B16W09D	HU-B
B16W12S	HU-A
DW14	HU-B
DW15	HU-B
DW16	HU-B
DW17	HU-B
DW18	HU-B
DW19	HU-B
DW21	HU-A
DW22R	HU-B

4.2.1 Evaluation of HU-A Ground-Water Monitoring Data

The results of the CY 2010 ground-water sampling of HU-A ground water at the SLDS are summarized in Table 4-2. During CY 2010, two HU-A monitoring wells (B16W06S and B16W12S) were sampled. B16W06S was sampled twice for arsenic and cadmium during the second and fourth quarters. B16W12S was sampled once for arsenic and cadmium, and for Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238 during the fourth quarter.

Table 4-2. Analytes Detected in HU-A Ground Water at the SLDS

Analyte	Units	Station	Minimum Detected	Maximum Detected	Mean Detected	Frequency of Detection
Arsenic	µg/L	B16W06S	177	214	195.5	2/2
Cadmium	µg/L	B16W06S	2	2	2	1/2
		B16W12S	2.7	2.7	2.7	1/1
Th-228	pCi/L	B16W12S	0.44 J	0.44 J	0.44 J	1/1
U-234	pCi/L	B16W12S	1.95	1.95	1.95	1/1
U-238	pCi/L	B16W12S	2.26	2.26	2.26	1/1
Total U[a]	µg/L	B16W12S	6.8	6.8	6.8	1/1

[a] Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities.
J = Validation qualifier indicating the analyte was positively identified but the reported value is an estimate.

The analytes detected in HU-A ground water are listed in Table 4-2. Because the historical results for these COCs were generally below or only slightly above their detection limits (DLs), a trend analysis was not conducted for cadmium, Th-228, U-234, or U-238. Trend analysis was conducted for arsenic in B16W06S and for total U in B16W12S. Based on the graph and a

quantitative evaluation of the trend using the Mann-Kendall trend test (presented in Section 4.2.3), there is a downward trend in arsenic concentrations in B16W06S. Figures 4-4 and 4-5 provide the time-versus-concentration plots for arsenic and total U, respectively, at SLDS. Figure 4-6 provides an expanded version of the time-versus-concentration plots for arsenic in B16W06S. Based on the Mann-Kendall test results and the total U graph for B16W12S in Figure 4-5, concentrations of total U have not shown significant increases during the period between January 1999 and December 2010. The remaining SLDS COCs (Ra-226, Ra-228, Th-230, Th-232, and U-235) were not detected in HU-A ground water during CY 2010.

4.2.2 Evaluation of HU-B Ground-Water Monitoring Data

During CY 2010, eight SLDS wells completed in the Mississippi Alluvial Aquifer (HU-B) were monitored for various parameters, including the COCs arsenic, cadmium, Th-228, Th-230, Th-232, Ra-226, Ra-228, U-234, U-235, and U-238. Detected concentrations were compared to the respective ROD ground-water criteria. Table 4-3 lists the analytes that were detected in HU-B ground water during CY 2010 and compares the results with the ROD ground-water criteria.

Table 4-3. Analytes Detected in HU-B Ground Water at the SLDS

Analyte	ROD Ground-Water Criteria		Units	Station[b]	Minimum Detected	Maximum Detected	Mean Detected	# Detects > ROD Ground-Water Criteria	Frequency of Detection
	IL[a]	40 *CFR* 192.02 Table 1, Subpart A							
Arsenic	50	NA	µg/L	B16W08D	28.6	28.6	28.6	0	1/1
				B16W09D	185	185	185	1	1/1
				DW14	19.5	19.5	19.5	0	1/1
				DW15	22.3	22.3	22.3	0	1/1
				DW16	36.7	36.7	36.7	0	1/1
				DW17	4.5	4.5	4.5	0	1/1
				DW18	81.5	81.5	81.5	1	1/1
Cadmium	5	NA	µg/L	B16W09D	5	5	5	0	1/1
				DW14	2.2	2.2	2.2	0	1/1
				DW16	1.5	1.5	1.5	0	1/1
				DW17	12.1	12.1	12.1	1	1/1
				DW18	1.4	1.4	1.4	0	1/1
Th-228	NA	NA	pCi/L	DW18	0.2 J	0.2 J	0.2 J	0	1/2
Th-230	NA	NA	pCi/L	B16W08D	0.65 J	0.65 J	0.65 J	0	1/1
				DW15	0.56 J	0.56 J	0.56 J	0	1/1
				DW18	0.61 J	0.61 J	0.61 J	0	1/2
Total U[c]	20	NA	µg/L	B16W08D	0.2	0.2	0.2	0	1/1
				DW15	1.2	1.2	1.2	0	1/1
				DW18	0.6	1.0	0.8	0	1/2
				DW19	61.8	61.8	61.8	1	1/1

[a] USACE 1998a.
[b] Table lists only those stations at which the analyte was detected in HU-B ground water and lists only those analytes having ROD ground-water criteria.
[c] Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities and assuming secular equilibrium.
J Validation qualifier indicating the analyte was positively identified but the reported value is an estimate.
NA Not appropriate. No IL is specified or the concentration limits specified in Table 1 are the same or less stringent than the IL and thus are not relevant or appropriate.

Three SLDS COCs (arsenic, cadmium, and total U) were detected at concentrations above the ROD ground-water criteria in HU-B ground water during CY 2010. Concentrations of arsenic exceeded the IL (50 µg/L) in B16W09D (185 µg/L) and DW18 (81.5 µg/L). Cadmium was detected in December 2010 at a concentration of 12.1 µg/L in DW17, which exceeded the ROD

IL of 5 µg/L. Concentrations of total U exceeded the IL (20 µg/L) in the May 2010 sample from DW19 (61.8 µg/L).

4.2.3 Comparison of Historical Ground-Water Data at the SLDS

A quantitative evaluation of COC concentration trends in SLDS ground water was conducted based on available sampling data for the period from January 1999 through December 2010. Mann-Kendall testing is used to evaluate possible trends for those COCs that are detected in HU-A and for those COCs that exceed ROD ground-water criteria in HU-B during CY 2010. Mann-Kendall testing was not conducted for those COCs that have insufficient sampling data (fewer than six sampling results for the period January 1999 to December 2010), a detection frequency less than 50 percent, or historical results that were generally within the range of measurement error of their DLs. For HU-A, a trend analysis was not conducted for cadmium, Th-228, U-234, or U-238 because their detection frequencies were less than 50 percent or their historical results were generally below or only slightly above their DLs. Trend analysis was conducted for arsenic in HU-A well B16W06S and for total U in HU-A well B16W12S. For HU-B, three COCs exceeded the ILs during CY 2010: arsenic in B16W09D and DW18, cadmium in B16W09D and DW17, and total U in DW19. However, the detection frequency for cadmium in B16W09D and DW17 did not exceed 50 percent so Mann-Kendall testing was not conducted for this analyte. Mann-Kendall testing was conducted for total U in the HU-B well DW19 and arsenic in HU-B wells B16W09D and DW18.

Statistical Method and Trend Analysis

Several statistical methods are available to evaluate contaminant trends in ground water. These include the Mann-Kendall test, the Wilcoxon Rank Sum test, and the Seasonal Kendall test (USEPA 2000). The latter two tests are applicable to data that may or may not exhibit seasonal behavior, but generally require larger sample sizes than the Mann-Kendall test. The Mann-Kendall test was selected for this project because this test can be used with small sample sizes (as few as four data points) and because a seasonal variation in concentrations was not indicated by the time-versus-concentration plots at the SLDS. The Mann-Kendall test is a non-parametric test and, as such, is not dependent upon assumptions of distribution, missing data, or irregularly-spaced monitoring periods. In addition, data reported as being less than the DL can be used (Gibbons 1994). The test can assess whether a time-ordered dataset exhibits an increasing or decreasing trend, within a predetermined level of significance. While the Mann-Kendall test can use as few as four data points, often this is not enough data to detect a trend. Therefore, the test was performed only at those monitoring stations where data have been collected for at least six sampling events.

The Mann-Kendall test involves listing the sampling results in chronological order and computing all differences that may be formed between current measurements and earlier measurements. The value of the test statistic (S) is the difference between the number of strictly positive differences and the number of strictly negative differences. If S is a large positive value, then there is evidence of an increasing trend in the data. If S is a large negative value, then there is evidence of a decreasing trend in the data. If there is no trend and all observations are independent, then all rank orderings of the annual statistics are equally likely (USEPA 2000). The results of the Mann-Kendall test are reported in terms of a p-value or Z-score, depending on sample size, N. If the sample size is ≤ 10, then the p-value is computed. If the p value ≤ 0.05, the test concludes that the trend is statistically significant. If the p value > 0.05, the test concludes there is no evidence of a significant trend. For dataset sizes larger than 10, the Z-score is

compared to ± 1.64, which is the comparison level at a 95 percent confidence level. If the Z-score is greater than +1.64, the test concludes that a significant upward trend exists. For Z-scores between -1.64 and 1.64, there is no evidence of a significant trend.

The Mann-Kendall test was performed using Version 6.0 of the software package Visual Sample Plan (VSP), developed by Pacific Northwest National Laboratory (PNNL 2010). This package includes a number of statistical analysis tools, including Mann-Kendall trend analysis. The results of the Mann-Kendall test are less reliable for datasets containing high numbers of non-detects, particularly if the DL changes over time. For that reason, for data sets where more than 50 percent of the time-series data are non-detect, the Mann-Kendall trend test was not conducted. The maximum percentage of non-detects allowed within the data set has been increased from 20 percent to 50 percent. There is no general consensus regarding the percentage of non-detects that can be handled by the Mann-Kendall test. However, because the Mann-Kendall test is a nonparametric test that uses relative magnitudes, not actual values, it is generally valid even in cases where there are large numbers of non-detects. A 20 percent cutoff was previously used because the size of the historical database for many of the wells resulted in fewer than six detected results when larger cutoff values were used. The concern was that the test would give biased results if only a small number of detected results were in the database. In CY 2008, the non-detect frequency was increased because several years of additional data are available since the 20 percent cutoff was selected. This has resulted in greater numbers of detected results in the databases used for each well. This change allows a larger number of wells and analytes to be evaluated using the Mann-Kendall test.

Only unfiltered data were used, and split sample and QC sample results were not included in the database for the Mann-Kendall test. The Mann-Kendall test is used to evaluate the data and determine trends without regard to isotopic analysis. In addition, for monitoring wells where the Mann-Kendall test has indicated a trend (either upward or downward), another analysis is performed to determine if the trend is due to inherent error associated with the analytical test method for each sample analysis. For each specific constituent, graphs are generated to depict the trends, if present, and the associated error bars.

Results of Trend Analysis for Ground Water at the SLDS

The Mann-Kendall test results are provided in Table 4-4. Figure 4-6 provides time-versus-concentration plots for those wells and analytes exhibiting a trend based on the Mann-Kendall test results (i.e., arsenic in B16W06S and DW18).

Table 4-4. Results of Mann-Kendall Trend Test[a] for SLDS Ground Water

Analyte	Station	Hydrogeologic Unit	N[b]	Test Statistics[c]		Trend[d]
				S	Z	
Arsenic	B16W06S	HU-A	13	-32	-1.9	Downward Trend
	B16W09D	HU-B	12	17	1.1	No Trend
	DW18	HU-B	21	77	2.3	Upward Trend
Total U	B16W12S	HU-A	16	12	0.50	No Trend
	DW19	HU-B	23	-15	-0.37	No Trend

[a] One-tailed Mann-Kendall tests were performed at a 95 percent level of confidence. For non-radiological data, non-detected results were replaced with one half of the lowest DL.

[b] N is the number of unfiltered ground-water sample results for a particular analyte at the well for the period between January 1999 and December 2010.

[c] Test Statistics: S = the S-Statistic; Z = Z- score, or normalized test statistic (used if N>10).

[d] Trend: If N≤10, p is compared to 0.05 to determine trend significance. If N>10, the Z-score is compared to ±1.64 to determine trend significance.

Inorganics

Based on the results of the Mann-Kendall Trend test, one well exhibits a downward trend for arsenic (HU-A well B16W06S), one well exhibits an upward trend for arsenic (HU-B well DW18), and one well exhibits no trend for arsenic (HU-B well B16W09D). Because the Mann-Kendall test does not consider the effects of measurement error and does not provide any information concerning the magnitude of the trend, time-versus-concentration plots of arsenic in B16W06S and DW18 were used to evaluate these factors (Figure 4-6). The plots also show the best-fit trend lines based on the data scatter and error. As shown in Figure 4-6, there is a decreasing arsenic concentration trend in B16W06S and an increasing arsenic concentration trend in DW18. No other significant changes in the concentrations of the inorganic COCs occurred in shallow or deep ground water during CY 2010.

Radionuclides

The Mann-Kendall test results indicate that there is no trend for total U in HU-A well B16W12S or in HU-B well DW19. As shown in the time-versus-concentration plots on Figure 4-5, concentrations of total U have not shown significant increases since 1999; however, they have remained above the IL in DW19 since 1999.

4.2.4 Evaluation of Potentiometric Surface at the SLDS

Ground-water elevations were measured in monitoring wells at the SLDS in March, May, September, and December of CY 2010. Potentiometric surface maps were created from the May and December measurements to illustrate ground-water flow conditions in wet and dry seasons, respectively. The potentiometric maps for both HU-A and HU-B are presented on Figures 4-7 through 4-10.

The ground-water surface in HU-A under the eastern portion of the Mallinckrodt plant is generally sloping toward the Mississippi River (Figures 4-7 and 4-9). The ground water may be present in separate lenses or subunits of the heterogeneous HU-A. Comparison of Figure 4-7 (May) with Figure 4-9 (December) indicates ground-water flow direction patterns in HU-A are similar for the wet and dry season conditions, but the flow gradient is higher (steeper) during the dry season. During 2010, the HU-A potentiometric surface elevations showed some seasonal fluctuation in ground-water elevations, with elevations averaging approximately 12 ft higher during the wet season (May) than during the dry season (December). A larger difference between the dry and wet season elevations is observed in the two wells located near the river (B16W06S and B16W08S), with the December elevations averaging 20.8 ft lower than the May elevations. In general, seasonal fluctuations in river stage have only minor effects on the HU-A ground-water levels, and effects are generally limited to the area nearest to the river.

As shown in Figures 4-8 and 4-10, the HU-B potentiometric surfaces generally have lower hydraulic gradients than the HU-A potentiometric surfaces (Figures 4-7 and 4-9). Ground-water flow direction and gradient are strongly influenced by river stage, because ground water in HU-B is hydraulically connected to the Mississippi River. The water levels measured at the SLDS indicate that HU-B ground-water elevations averaged approximately 13.2 ft higher on May 26 than on December 20; this generally corresponds to the difference in the daily river stage, which was approximately 26 ft higher on May 26 (412 ft above mean sea level [amsl]) than on December 20 (386 ft amsl). Both the May and December 2010 potentiometric surface maps indicate the presence of relatively low hydraulic gradients in the vicinity of DW19. The potentiometric surface maps for HU-B indicate flow direction at the site is generally northeastward toward the Mississippi River.

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5.0 ENVIRONMENTAL QUALITY ASSURANCE PROGRAM

5.1 PROGRAM OVERVIEW

The environmental quality assurance (QA) program includes management of the QA and QC programs, plans, and procedures governing environmental monitoring activities at the SLDS and at subcontracted vendor laboratories. This section discusses the environmental monitoring standards at FUSRAP and the goals for these programs, plans, and procedures.

The environmental QA program provides FUSRAP with reliable, accurate, and precise monitoring data. The program furnishes guidance and directives to detect and prevent problems from the time a sample is collected until the associated data are evaluated. The Missouri Department of Natural Resources conducted site visits to observe the environmental monitoring activities. USEPA and Missouri Department of Natural Resources regulatory oversight of sampling activities provided an additional level of QA/QC.

Key elements in achieving the goals of this program are maintaining compliance with the QA program, personnel training, compliance assessments, use of QC samples, documentation of field activities and laboratory analyses, and a review of data documents for precision, accuracy, and completeness.

General objectives are as follows:

- To provide data of sufficient quality and quantity to support ongoing remedial efforts, to aid in defining potential COCs, to meet the requirements of the EMG (USACE 1999a) and the *Sampling and Analysis Guide for the St. Louis Sites* (SAG) (USACE 2000), and to support the ROD (USACE 1998a).
- To provide data of sufficient quality to meet applicable State of Missouri and federal concerns (e.g., reporting requirements).
- To ensure samples were collected using approved techniques and are representative of existing site conditions.

5.2 QUALITY ASSURANCE PROGRAM PLAN

The Quality Assurance Program Plan (QAPP) for activities performed at the SLS is described within Section 3.0 of the SAG. The QAPP provides the organization, objectives, functional activities, and specific QA/QC activities associated with investigations and sampling activities at the SLS.

QA/QC procedures are performed in accordance with applicable professional technical standards, USEPA requirements, government regulations and guidelines, and specific project goals and requirements. The QAPP was prepared in accordance with USEPA and USACE guidance documents, including *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans* (USEPA 1991), *EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations* (USEPA 1994), and *Requirements for the Preparation of Sampling and Analysis Plans* (USACE 2001).

5.3 SAMPLING AND ANALYSIS GUIDE

The SAG summarizes standard operating procedures (SOPs) and data quality requirements for collecting and analyzing environmental data. The SAG integrates protocols and methodologies

identified under various USACE and regulatory guidance. It describes administrative procedures for managing environmental data and governs sampling plan preparation, data review, evaluation and validation, database administration, and data archiving. The structure for identified sampling/monitoring was delineated through programmatic documents such as the EMG (USACE 1999a), which is an upper tier companion document to the SAG (USACE 2000). The EMICY10 document outlines the analyses to be performed at each site for various media (USACE 2010).

Flexibility to address non-periodic environmental sampling, such as specific studies regarding environmental impacts, well installations, and/or in-situ waste characterizations, was accomplished by the issuance of work descriptions. Environmental monitoring data obtained during these sampling activities were reported to USEPA Region VII on a quarterly basis, per the requirements of the FFA.

5.4 FIELD SAMPLE COLLECTION AND MEASUREMENT

Prior to beginning field sampling, field personnel were trained, as necessary, and participated in a project-specific readiness review. These activities ensured that standard procedures were followed in sample collection and in completing field logbooks, chain-of-custody forms, labels, and custody seals. Documentation of training and readiness was submitted to the project file.

The master field investigation documents are the site field logbooks. The primary purpose of these documents is to record each day's field activities; personnel on each sampling team; and any administrative occurrences, conditions, or activities that may have affected the fieldwork or data quality of any environmental samples for any given day. Guidance for documenting specific types of field sampling activities in field logbooks or log sheets is provided in Appendix C of EM-200-1-3 (USACE 2001).

At any point in the process of sample collection or data and document review, a non-conformance report may be initiated if non-conformances are identified (SAIC 2002). Data entered into the database may be flagged accordingly.

5.5 PERFORMANCE AND SYSTEM AUDITS

Performance and system audits of both field and laboratory activities are conducted to verify that sampling and analysis activities were performed in accordance with the procedures established in the SAG and activity-specific work description or EMICY documents.

5.5.1 Field Assessments

Internal assessments (audit or surveillance) of field activities (sampling and measurements) are conducted by the QA/QC Officer (or designee). Assessments include an examination of field sampling records, field instrument operating records, sample collection, handling and packaging procedures, maintenance of QA procedures, and chain-of-custody forms. These assessments occurred at the onset of the project to verify that all established procedures were followed (systems audit).

Performance assessments followed to ensure that deficiencies had been corrected and to verify that QA practices/procedures were being maintained throughout the duration of the project. These assessments involved reviewing field measurement records, instrumentation calibration records, and sample documentation.

External assessments may be conducted at the discretion of the USACE, USEPA Region VII, or the State of Missouri.

5.5.2 Laboratory Audits

The on-site laboratories are subject to USACE periodic review(s) by the local USACE Chemist to demonstrate compliance with the *DOD Quality Systems Manual for Environmental Laboratories* (DOD-QSM) Version 4.2 (DOD 2010). In conjunction, blind third-party performance evaluation studies (performance audits) are participated in at least twice per year, and results are reported to the local USACE point(s) of contact. In addition, contract laboratories are required to be accredited under the U.S. Department of Defense (DOD) Environmental Laboratory Accreditation Program (ELAP). The DOD ELAP requires an annual audit and re-accreditation every three years.

These system audits include examining laboratory documentation of sample receipt, sample log-in, sample storage, chain-of-custody procedures, sample preparation and analysis, and instrument operating records. Performance audits consist of USACE laboratories receiving performance evaluation samples from an outside vendor for an ongoing assessment of laboratory precision and accuracy. The analytical results of the analysis of performance evaluation samples are evaluated by USACE Hazardous, Toxic and Radioactive Waste – Center of Expertise and/or the local oversight chemist to ensure that laboratories maintain acceptable performance.

Internal performance and system audits of laboratories were conducted by the Laboratory QA Manager as directed in the Laboratory QA Plan. These system audits included an examination of laboratory documentation of sample receipt, sample log-in, sample storage, chain-of-custody procedures, sample preparation and analysis, and instrument operating records against the requirements of the laboratory's SOPs. Internal performance audits were also conducted on a regular basis. Single-blind performance samples were prepared and submitted along with project samples to the laboratory for analysis. The Laboratory QA Manager evaluated the analytical results of these single-blind performance samples to ensure that the laboratory maintained acceptable performance. Quarterly QA/QC reports are generated and provided to the local USACE authority – the reports document the ongoing QC elements and provide for further monitoring of quality processes/status. Also, QA Plans and methodology are to follow the guidance as presented in the DOD-QSM (DOD 2010).

5.6 SUBCONTRACTED LABORATORY PROGRAMS

All samples collected during environmental monitoring activities were analyzed by USACE-approved laboratories. QA samples were collected for ground water and soil and were analyzed by the designated USACE QA laboratory. Each laboratory supporting this work maintained statements of qualifications, including organizational structure, QA Manual, and SOPs. Additionally, subcontracted laboratories are also required to be an accredited laboratory under the DOD ELAP.

Samples collected during these investigations were analyzed by USEPA SW-846 methods and by other documented USEPA or nationally recognized methods. Laboratory SOPs are based on the USEPA methods contained in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846*, Third Edition (USEPA 1993).

5.7 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLES

QA/QC samples were collected and analyzed for the purpose of assessing the quality of the sampling effort and the reported analytical data. QA/QC samples include duplicate samples (-1) and split samples (-2). The equation utilized for accuracy and precision can be found in Section 5.9.

5.7.1 Duplicate Samples

Duplicate samples measure precision and were collected by the sampling teams. Samples were submitted for analysis to the on-site laboratory or contract laboratories. The identity of duplicate samples is held blind to the analysts, and the purpose of these samples is to provide activity-specific, field-originated information regarding the homogeneity of the sampled matrix and the consistency of the sampling effort. These samples were collected concurrently with the primary environmental samples and equally represent the medium at a given time and location. Duplicate samples were collected from each medium addressed by this project and were submitted to the contracted laboratories for analysis. Approximately one duplicate sample was collected for every 20 field samples of each matrix and analyte. Precision is measured by the relative percent difference (RPD) for radiological and non-radiological analyses or by the normalized absolute difference (NAD) for radiological analyses.

The non-radiological analyses RPDs are presented in Table 5-1. The radiological analyses RPDs and NADs are presented in Table 5-2. The overall precision for the CY 2010 environmental monitoring sampling activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-1. Non-radiological Duplicate Sample Analysis – Ground Water

Sample Name	Arsenic	Cadmium
	RPD	RPD
SLD133102 / SLD133102-1	5.02	NC

NC Not calculated due to one or both concentrations being below DLs.
-1 Sample Duplicate

Table 5-2. Radiological Duplicate Sample Analysis – Ground Water

Sample Name	Radium-226		Radium-228		Thorium-228		Thorium-230	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
SLD133102 / SLD133102-1	NC	NC	*	*	NC	NC	NC	NC
	Thorium-232		Uranium-234		Uranium-235		Uranium-238	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
	NC	NC	NC	NC	NC	NC	NC	NC

NC Not calculated due to one or both concentrations being below DLs.
* Not calculated because either the parent or duplicate sample was not analyzed.
-1 Sample Duplicate

5.7.2 Split Samples

Split samples measure accuracy and were collected by the sampling team and sent to a USACE QA laboratory for analysis to provide an independent assessment of contractor and subcontractor laboratory performance. Approximately one split sample was collected for every 20 field samples of each matrix for non-radiological and radiological analytes. The non-radiological analyses RPDs are presented in Table 5-3. The radiological analyses RPDs and NADs are presented in Table 5-4. See Section 5.9 for the evaluation process.

Table 5-3. Non-radiological Split Sample Analysis – Ground Water

Sample Name	Arsenic	Cadmium
	RPD	RPD
SLD133102 / SLD133102-2	2.12	NC

NC Not calculated due to one or both concentrations being below DLs.
-2 Sample Split

Table 5-4. Radiological Split Sample Analysis – Ground Water

Sample Name	Radium-226		Radium-228		Thorium-228		Thorium-230	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
SLD133102 / SLD133102-2	NC	NC	*	*	NC	NC	105.77	1.01
	Thorium-232		Uranium-234		Uranium-235		Uranium-238	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
	NC	NC	NC	NC	NC	NC	NC	NC

NC Not calculated due to one or both concentrations being below DLs.
* Not calculated because either the parent or duplicate sample was not analyzed.
-2 Sample Split

5.7.3 Equipment Rinsate Blanks

These samples are typically taken from the water rinsate collected from equipment decontamination activities and comprise samples of analyte-free water, which has been rinsed over sampling equipment for the purposes of decontamination, collected, and submitted for analysis of the parameters of interest. All of the monitoring wells have dedicated sampling equipment; therefore, equipment rinsate blanks were not employed to assess the effectiveness of the decontamination process because it does not apply.

5.8 DATA REVIEW, EVALUATION AND VALIDATION

All data packages received from the analytical laboratory were reviewed and either evaluated or validated by data management personnel. Data validation is the systematic process of ensuring that the precision and accuracy of the analytical data are adequate for their intended use. Validation was performed in accordance with USEPA regional or National Functional Guidelines or with project-specific guidelines. General chemical data quality management guidance found in ER-1110-1-263 (USACE 1998b) was also used when planning for chemical data management and evaluation. Additional details of data review, evaluation, and validation are provided in the *FUSRAP Laboratory Data Management Process for the St. Louis Site* (USACE 1999b). Data assessment guidance, to determine the usability of data from Hazardous, Toxic and Radioactive Waste projects, was provided in EM-200-1-6 (USACE 1997).

One hundred percent of the data generated from all analytical laboratories was independently reviewed and either evaluated or validated. The data review process documents the possible effects on the data that result from various QC failures; it does not determine data usability, nor does it include assignment of data qualifier flags. The data evaluation process uses the results of the data review to determine the usability of the data. The process of data evaluation summarizes the potential effects of QA/QC failures on the data, and the USACE District Chemist or District Health Physicist assesses their impact on the attainment of the project-specific data quality objectives (DQOs). Consistent with the data quality requirements, as defined in the DQOs, approximately 10 percent of all project data was validated.

5.9 PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS, AND SENSITIVITY

The data evaluation process considers precision, accuracy, representativeness, completeness, comparability, and sensitivity. The following subsections will provide detail to the particular parameters and to how the data was evaluated for each with discussion and tables to present the associated data.

Accuracy and precision can be measured by the RPD or the NAD using the following equations:

$$RPD = \left(\frac{|S - D|}{\frac{S + D}{2}} \right) \times 100$$

$$NAD = \frac{|S - D|}{\sqrt{U_S^2 + U_D^2}}$$

Where:
S = Parent Sample Result
D = Duplicate Sample Result
U_S = Parent Sample Uncertainty
U_D = Split Sample Uncertainty

The RPD is calculated for all samples if a detectable result is reported for both the parent and the QA field split or field duplicate. For radiological samples, when the RPD is greater than 30 percent, the NAD is used to determine the accuracy or precision of the method. NAD accounts for uncertainty in the results, RPD does not. The NAD should be below a value of 1.96. Neither equation is used when the analyte in one or both of the samples is not detected. In cases where neither equation can be used, the comparison is counted as acceptable in the overall number of comparisons.

Precision is a measure of mutual agreement among individual measurements performed under the same laboratory controls. To evaluate for precision, a field duplicate is submitted to the same laboratory as the original sample to be analyzed under the same laboratory conditions. The RPD and NAD between the two results was calculated and used as an indication of the precision of the analyses performed (Tables 5-1 and 5-2). Sample collection precision was measured in the laboratory by the analyses of duplicates. The overall precision for the CY 2010 environmental monitoring sampling activities was acceptable.

Accuracy provides a gauge or measure of the agreement between an observed result and the true value for an analysis. The RPD and NAD between the two results was calculated and used as an indication of the accuracy of the analyses performed (Tables 5-3 and 5-4). For this report, accuracy is measured through the use of the field split samples through a comparison of the prime laboratory results versus the results of an independent laboratory. Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that depends upon the proper design of the sampling program and proper laboratory protocols. Representativeness is satisfied through proper design of the sampling network, use of proper sampling techniques, following proper analytical procedures, and not exceeding holding times of the samples. Representativeness was determined by assessing the combined aspects of the QA program, QC measures, and data evaluations. The network design was developed from the EMICY10; the sampling protocols from the SAG have been followed; and, analytical procedures were conducted within the bounds of the QAPP. The overall representativeness of the CY 2010 environmental monitoring sampling

activities was acceptable for the media and the media's sampling previously listed in this document.

Comparability expresses the confidence with which one data set can be compared to another. The extent to which analytical data will be comparable depends upon the similarity of sampling and analytical methods, as well as sample-to-sample and historical comparability. Standardized and consistent procedures used to obtain analytical data are expected to provide comparable results. These most recent (post CY 1997) analytical data, however, may not be directly comparable to data collected before CY 1997 because of differences in DQOs. Some media, such as storm-water, and radiological monitoring have values that are primarily useful in the present and the comparison to historic data is not as relevant.

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under normal conditions. It is expected that laboratories will provide data meeting QC acceptance criteria for all samples tested. For the CY 2010 environmental monitoring sampling activities, the data completeness was 100 percent (FUSRAP DQO for completeness is 90 percent).

Sensitivity is the determination of minimum detectable concentration (MDC) values that allows the investigation to assess the relative confidence that can be placed in a value in comparison to the magnitude or level of analyte concentration observed. For this report, MDC is a term generically used to represent both the method detection limit (MDL) for non-radiological analytes and the minimum detectable activity (MDA) for radiological analytes. The closer a measured value comes to the MDC, the less confidence and more variation the measurement will have. Project sensitivity goals were expressed as quantitation level goals in the SAG. These levels were achieved or exceeded throughout the analytical process.

The MDC is reported for each result obtained by laboratory analysis. These very low MDCs are achieved through the use of gamma spectroscopy for all radionuclides of concern, with additional analyses from alpha spectroscopy for thorium, and inductively coupled plasma (ICP) for metals. Variations in MDCs for the same radiological analyte reflects variability in the detection efficiencies and conversion factors due to factors such as individual sample aliquot, sample density, and variations in analyte background radioactivity for gamma and alpha spec, at the laboratory. Variations in MDLs for the same non-radiological analyte reflect variability in calibrations between laboratories, dilutions, and analytical methods. In order to complete the Data Evaluation (i.e. precision, accuracy, representativeness, and comparability), analytical results are desired that exceed the MDC of the analyte.

5.10 DATA QUALITY ASSESSMENT SUMMARY

The overall quality of the data meets the established project objectives. Through proper implementation of the project data review, evaluation, validation, and assessment process, project information has been determined to be acceptable for use.

Data, as presented, have been qualified as usable, but estimated when necessary. Data that have been estimated have concentrations/activities that are below the quantitation limit or are indicative of accuracy, precision, or sensitivity being less than desired but adequate for interpretation.

These data can withstand scientific scrutiny, are appropriate for their intended purpose, are technically defensible, and are of known and acceptable precision and accuracy. Data integrity has been documented through proper implementation of QA/QC measures. The environmental

information presented has an established confidence, which allows utilization for the project objectives and provides data for future needs.

5.11 RESULTS FOR PARENT SAMPLES AND THE ASSOCIATED DUPLICATE AND SPLIT SAMPLES

Summaries of the QA parent sample results and associated duplicate and/or split sample results are presented in Tables 5-5 and 5-6.

Table 5-5. Non-Radiological Parent Samples and Associated Duplicate and Split Samples

Sample Name	Arsenic[a]			Cadmium[a]		
	Result	MDC	Qual	Result	MDC	Qual
SLD133102	28.60	2.70	=	0.91	0.91	U
SLD133102-1[b]	27.20	2.70	=	0.91	0.91	U
SLD133102-2[b]	28.00	1.50	=	1.00	1.00	U

[a] Results are expressed in µg/L.
[b] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.
= Positive result was obtained.
* Not available because split sample was not analyzed.
U The material was analyzed for a COC, but it was not detected above the level of the associated value.
MDC = minimum detectable concentration.

Table 5-6. Radiological Parent Samples and Associated Duplicate and Split Samples

Sample Name	Radium-226[a]				Radium-228[a]				Thorium-228[a]			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
SLD133102	0.51	0.96	1.89	UJ	*	*	*	*	0.03	0.15	0.39	UJ
SLD133102-1[b]	0.56	0.81	1.35	UJ	*	*	*	*	0.42	0.33	0.16	J
SLD133102-2[b]	0.34	0.16	0.17	=	*	*	*	*	0.07	0.15	0.27	UJ
	Thorium-230[a]				Thorium-232[a]				Uranium-234[a]			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
SLD133102	0.65	0.42	0.18	J	0.00	0.00	0.18	U	0.20	0.28	0.47	UJ
SLD133102-1[b]	0.33	0.31	0.36	U	0.18	0.21	0.16	J	0.18	0.31	0.60	UJ
SLD133102-2[b]	0.20	0.14	0.11	J	-0.01	0.01	0.12	UJ	0.03	0.06	0.11	UJ
	Uranium-235[a]				Uranium-238[a]							
	Result	Error	MDC	Qual	Result	Error	MDC	Qual				
SLD133102	0.00	0.00	0.26	U	0.08	0.16	0.21	UJ				
SLD133102-1[b]	-0.04	0.09	0.53	UJ	0.21	0.25	0.19	J				
SLD133102-2[b]	0.00	0.01	0.11	UJ	0.03	0.06	0.11	UJ				

[a] Results are expressed in pCi/l. Negative results are less than the laboratory system's background level.
[b] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.
* Data for analyte not available from laboratory analysis.
= Positive result was obtained.
J When the associated value is an estimated quantity, indicating a decreased knowledge of the accuracy or precision of the reported value.
UJ Indicates the analyte was analyzed for, but not detected, above the associated value; however, the reported value is an estimate and demonstrates a decreased knowledge of its accuracy or precision.
U When the material was analyzed for a COC, but it was not detected above the level of the associated value.
MDC = minimum detectable concentration.

6.0 RADIOLOGICAL DOSE ASSESSMENT

This section evaluates the cumulative dose to a hypothetically impacted individual from exposure to radiological contaminants at the SLDS and documents dose trends. The regulatory dose limit for members of the public is 100 mrem/yr as stated in 10 *CFR* 20.1301. Although 10 *CFR* 20.1301 is not an ARAR for the SLDS, the USACE has provided this evaluation to evaluate public exposures from FUSRAP cleanup operations. Compliance with the dose limit in §20.1301 can be demonstrated in one of the two following ways [§20.1302(b)(1) and (2)]:

1) Demonstrating by measurement or calculation that the TEDE to the individual likely to receive the highest dose from SLDS operations does not exceed the annual dose limit (i.e., 100 mrem/yr); or
2) Demonstrating that: (*i*) the annual average concentration of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area does not exceed the values specified in Table 2 of Appendix B to Part 20; and (*ii*) if an individual were continuously present in an unrestricted area, the dose from external sources would not exceed 2 millirem per hour (mrem/hr).

USACE has elected to demonstrate compliance by calculation of the TEDE to a hypothetical individual likely to receive the highest dose from SLDS operations (method 1, above). This section describes the methodology employed for this evaluation.

Dose calculations are presented for a hypothetical maximally exposed individual at the SLDS. The monitoring data used in the dose calculations are reported in the respective environmental monitoring sections of this report.

Dose calculations related to airborne emissions, as required by 40 *CFR* 61, Subpart I (*National Emission Standards for Emissions of Radionuclides Other Than Radon From Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered By Subpart H*), are presented in Appendix A, the SLDS FUSRAP CY 2010 Radionuclide Emissions NESHAP Report.

6.1 SUMMARY OF ASSESSMENT RESULTS

The TEDE from the SLDS to the receptor from all complete/applicable pathways combined was 0.2 mrem/yr, estimated for an individual who works full-time at Thomas & Proetz Lumber Company.

Figure 6-1 documents annual dose trends from CY 2000 to CY 2010 at the SLDS. Figure 6-2 provides a comparison of the maximum annual dose from CY 2000 to CY 2010 at the SLDS to the annual average background dose of 360 mrem/yr.

6.2 PATHWAY ANALYSIS

Table 6-1 lists the four complete pathways for exposure from radiological contaminants evaluated by the St. Louis FUSRAP EMP. These pathways are used to identify data gaps in the EMP and to estimate potential radiological exposures from the site. Of the four complete pathways, three were applicable in CY 2010, and were thus incorporated into radiological dose estimates.

Table 6-1. Complete Radiological Exposure Pathways for the SLDS

Exposure Pathway	Pathway Description	Applicable to CY 2010 Dose Estimate
		SLDS
Liquid A	Ingestion of ground water from local wells downgradient from the site.	N
Airborne A	Inhalation of particulates dispersed through wind erosion and RAs.	Y
Airborne B	Inhalation of Rn-222 and decay products emitted from contaminated soils/wastes.	Y
External	Direct gamma radiation from contaminated soils/wastes.	Y

Data from SLDS storm-water discharges and MSD discharges are not applicable to the hypothesized recreational receptor; therefore, that data is not evaluated in this section.
N Not applicable for the site.
Y Applicable for the site.

In developing specific elements of the St. Louis FUSRAP EMP, potential exposure pathways of the radioactive materials present on-site are reviewed to determine which pathways are complete. Evaluation of each exposure pathway is based on hypothesized sources, release mechanisms, types, probable environmental fates of contaminants, and the locations and activities of potential receptors. Pathways are then reviewed to determine whether a link exists between one or more radiological contaminant sources, or between one or more environmental transport processes, to an exposure point where human receptors are present. If it is determined that a link exists, the pathway is termed complete. Each complete pathway is reviewed to determine whether a potential for exposure was present during CY 2010. If this is the case, the pathway is termed applicable. Only applicable pathways are considered in estimates of dose.

Table 6-1 shows the pathways that are applicable to the CY 2010 dose estimates for the SLDS. The pathway listed as not applicable was not applicable in CY 2010 because Liquid A, the aquifer, is of naturally low quality and it is not known to be used for any domestic purpose in the vicinity of the SLDS (DOE 1994).

6.3 EXPOSURE SCENARIOS

Dose calculations were performed for a maximally exposed individual at a critical receptor location for applicable exposure pathways (see Table 6-1) to assess dose due to radiological releases from the SLDS. A second set of dose equivalent calculations were performed to meet NESHAP requirements (Appendix A), which were also used for purposes of TEDE calculation.

The scenarios and models used to evaluate these radiological exposures are conservative, but appropriate. Although radiation doses can be calculated or measured for individuals, it is not appropriate to predict the health risk to a single individual using the methods prescribed here. Dose equivalents to a single individual are estimated by hypothesizing a maximally exposed individual and placing this individual in a reasonable, but conservative scenario. This method is acceptable when the magnitude of the dose to a hypothetical maximally exposed individual is small, as is the case for the SLDS. This methodology provides for reasonable estimates of potential exposure to the public and maintains a conservative approach. The scenarios and resulting estimated doses are outlined in Section 6.4.

6.4 DETERMINATION OF TOTAL EFFECTIVE DOSE EQUIVALENT FOR EXPOSURE SCENARIOS

The TEDE for the exposure scenario was calculated using CY 2010 monitoring data. Calculations for dose scenarios are provided in Appendix E. Dose equivalent estimates are well below the standards set by the NRC for annual public exposure and USEPA NESHAP limits.

The CY 2010 TEDE for a hypothetical maximally exposed individual near the SLDS is less than 0.2 mrem/yr.

This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent the perimeter of the SLDS and receive a radiation dose by the exposure pathways identified above. No private residences are adjacent to the site. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent. A full-time employee business receptor was considered to be the maximally exposed individual from the SLDS.

The exposure scenario assumptions are as follows:

- Exposure to radiation from all SLDS sources occurs to the maximally exposed individual while working full-time outside at the receptor location facility located approximately 50 meters from the assumed line source. Exposure time is 2,000 hours per year (SAIC 2011).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the site locations representative of areas accessible to the public between the source and the receptor. The site is assumed to represent a line-source to the receptor.
- Exposure from airborne radioactive particulates was estimated using soil concentration data and air particulate monitoring data to determine a source term and then running the CAP-88 PC modeling code to estimate dose to the receptor (SAIC 2011).
- Exposure from Rn-222 (and progeny) was calculated using a dispersion factor and Rn-222 (alpha track) monitoring data at the site locations representative of areas accessible to the public between the source and receptor (SAIC 2011).

Based on the exposure scenario and assumptions described above, a maximally exposed individual working outside at the receptor location facility received less than 0.1 mrem/yr from external gamma, less than 0.1 mrem/yr from airborne radioactive particulates, and less than 0.1 mrem/yr from Rn-222, for a TEDE of 0.2 mrem/yr (SAIC 2011). In comparison, the annual average exposure to natural background radiation in the United States results in a TEDE of approximately 300 millirem (Beir 1990).

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10 *CFR* 20, *Standards for Protection Against Radiation.*

10 *CFR* 20.1301, *Dose Limits for Individual Members of the Public*.

40 *CFR* 61, Subpart I, *National Emission Standards for Radionuclide Emissions from Federal Facilities Other than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H.*

40 *CFR* 192, *Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings.*

FIGURES

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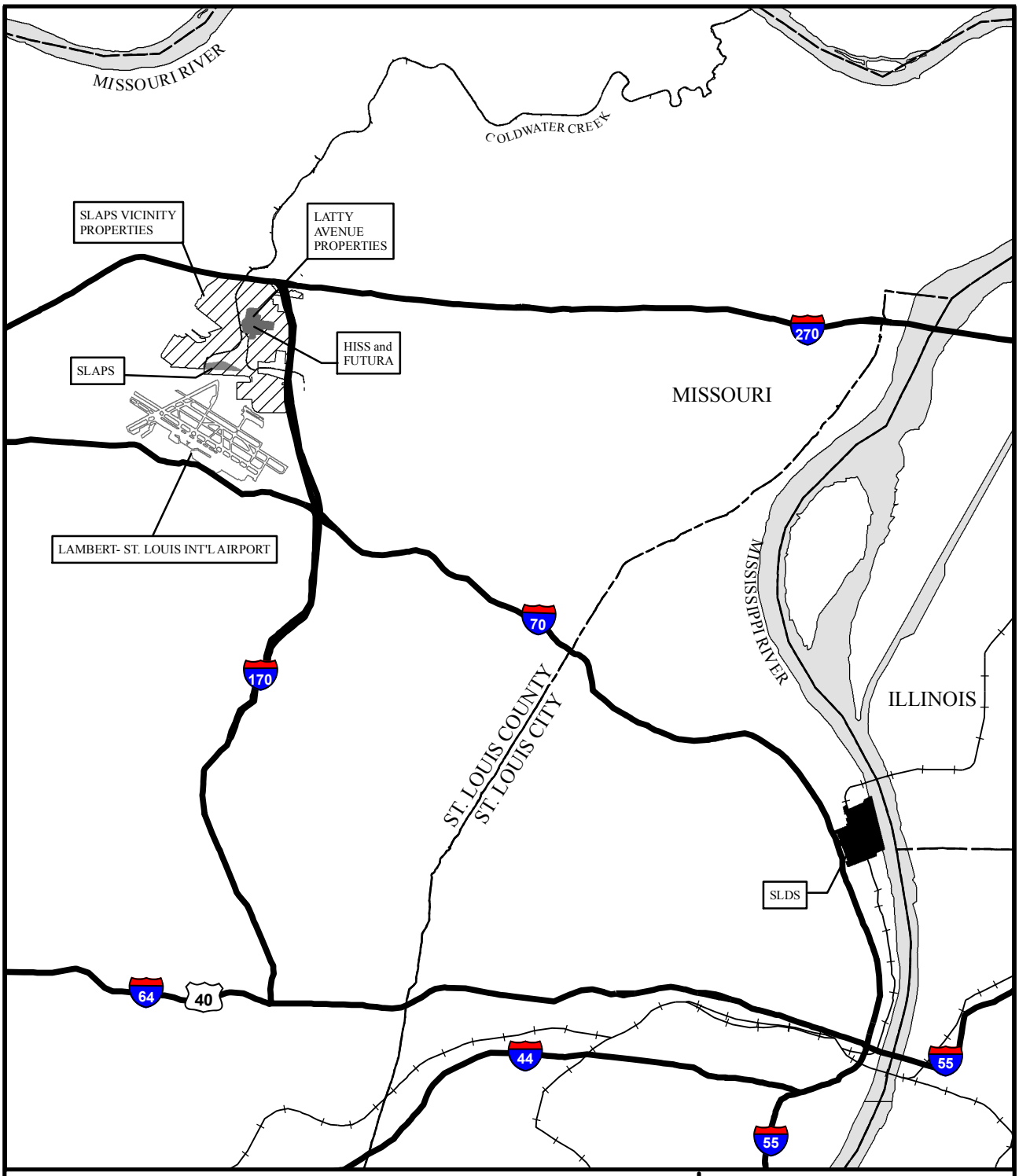


LEGEND:

- Interstate
- US Highway
- Railroad
- North St. Louis County Sites
- Airfield
- SLDS ROD Boundary
- River/Stream

N
W E
S

MO-East State Plane
(NAD 83, Feet)

0 5,500 11,000 Feet

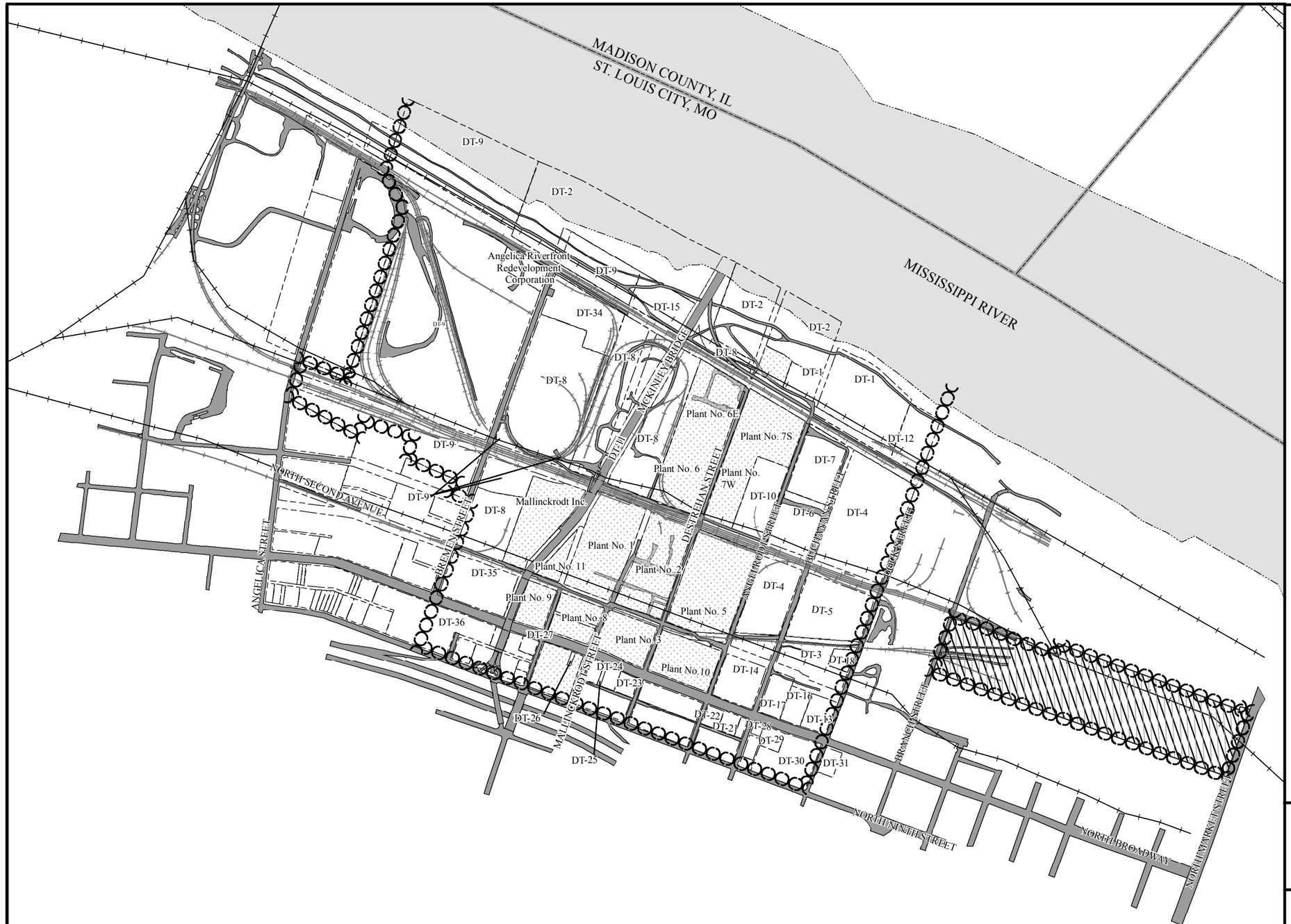
Figure 1-1.
Location Map of the
St. Louis Sites

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	5-27-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 1-1 Location Map of the St Louis Site.mxd

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 1-2. Plan View of the SLDS.mxd



Legend

- ROD Boundary
- Terminal Railroad Association Soil Spoils Area
- State/County Boundary
- Railroad
- Mallinckrodt Property
- Road
- Vicinity Properties
- River/Stream

Map Rotated 48 Degrees

MO-East State Plane
(NAD 83, Feet)

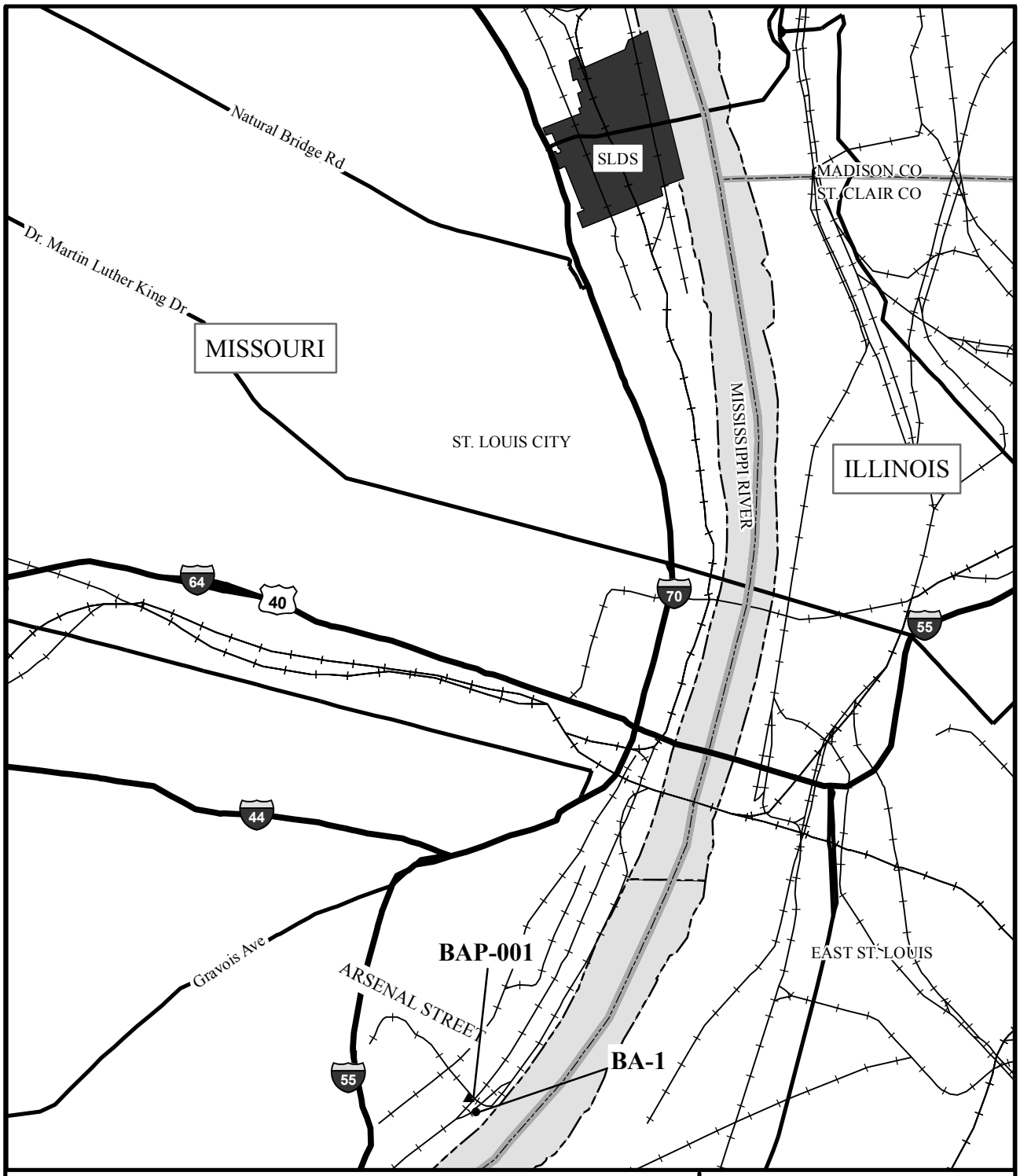
0 335 670 Feet

SLDS Annual EMDAR
for CY10
St. Louis, Missouri

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	5/31/2011

Figure 1-2. Plan View of the SLDS



Legend

- Roads
- Railroad
- State/County Boundary
- SLDS
- River/Stream
- County Boundary

● BA = Background monitoring for external gamma (TLD) and radon monitor (alpha track)

▲ BAP = Background air particulate monitor

N W E S

MO-East State Plane (NAD 83, Feet)

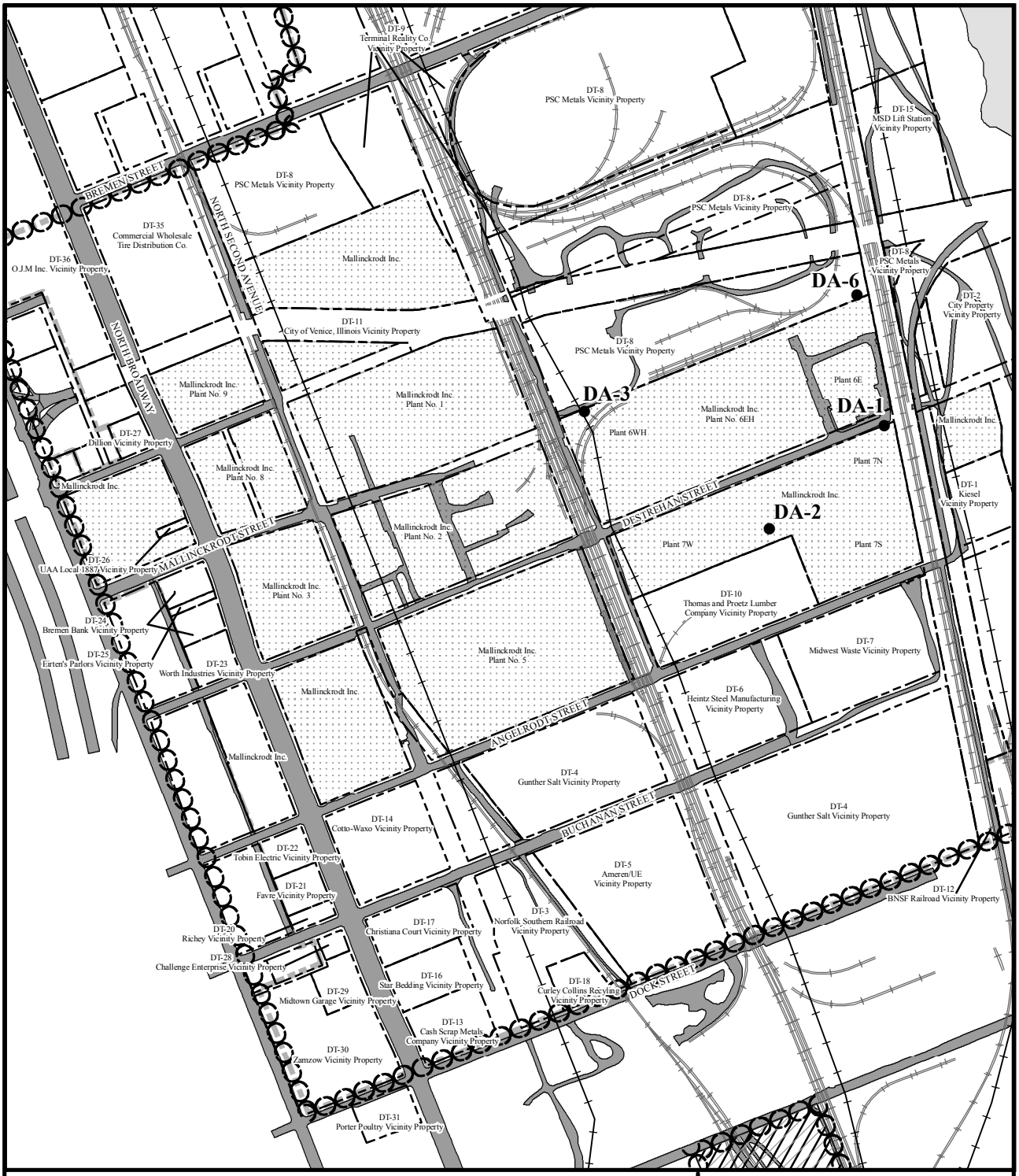
0 1,750 3,500 Feet

Figure 2-1. Gamma Radiation, Rn, and Particulate Air Monitoring at St. Louis Background Location - USACE Service Base

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	5-27-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 2-1 Gamma Radiation, Rn, and Particulate Air Monitoring at St Louis Background Location.mxd



Legend

- Vicinity Properties
- Terminal Railroad Association Soil Spoils Area
- Railroad
- Mallinckrodt Property
- External Gamma (TLD) and Rn-222 (ATD) Monitoring Location
- River/Stream
- Road
- ROD Boundary

N
W E
S

MO-East State Plane
(NAD 83, Feet)

0 210 420 Feet

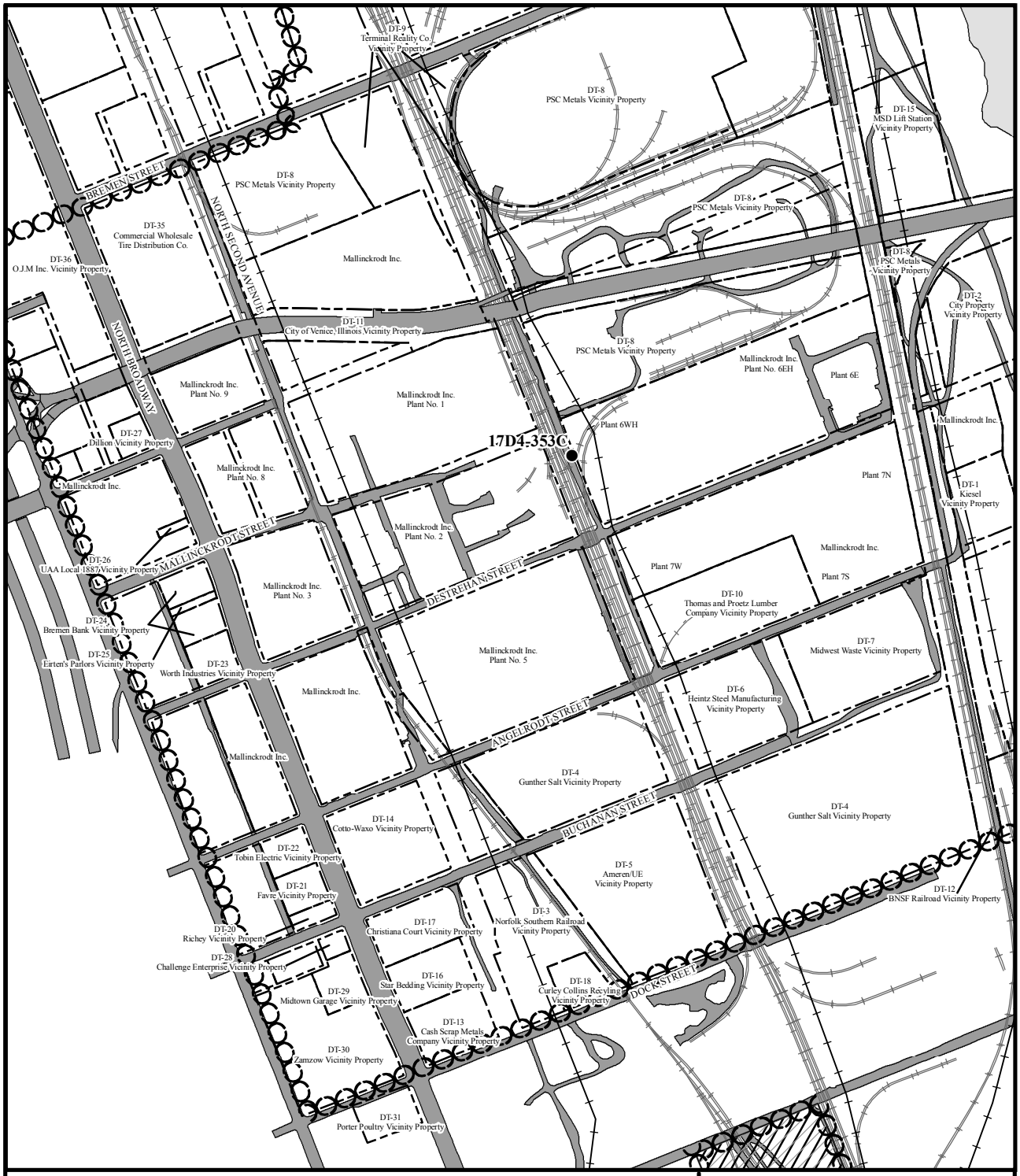
Note: Gamma Radiation and Radon Monitoring or equivalent in buildings are the responibility of Mallinckrodt.

Figure 2-2. Gamma Radiation and Rn Monitoring Locations at the SLDS.

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	5-31-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 2-2 Gamma Radiation and Rn Monitoring Locations at the SLDS.mxd



Legend

- ROD Boundary
- Vicinity Properties
- Mallinckrodt Property
- River/Stream
- Railroad
- Road
- Terminal Railroad Association Soil Spoils Area
- Metropolitan St. Louis Sewer District (MSD) Excavation Water Discharge Location

N
W E
S

MO-East State Plane
(NAD 83, Feet)

0 230 460 Feet

Figure 3-1. Excavation-Water Discharge MSD Stations at the SLDS

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	5-31-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 3-1 Excavation-Water Discharge Stations at the SLDS.mxd

Unit Designation	Approximate Thickness (ft)	Description
Upper Hydrostratigraphic Unit (HU-A)	0-25	**RUBBLE and FILL** Grayish black (N2) to brownish black (5YR2/1). Dry to slightly moist, generally becoming moist at 5-6 ft and saturated at 10-12 ft. Slight cohesion, variable with depth, moisture content and percentage of fines present. Consistency of relative density is unrepresentative due to large rubble fragments. Rubble is concrete, brick, glass, and coal slag. Percentage of fines as silt or clay increases with depth from 5 to 30 percent. Some weakly cemented aggregations of soil particles. Adhesion of fines to rubble increases with depth and higher moisture content. Degree of compaction is slight to moderate with frequent large voids.
	0-10	**Silty CLAY (CH)** Layers are mostly olive gray (5Y2/1), with some olive black (5Y2/1). Predominantly occurs at contact of undisturbed material, or at boundary of material with elevated activity. Abundant dark, decomposed organics. Variable percentages of silt and clay composition.
	0-5	**CLAY (CL)** Layers are light olive gray (5Y5/2), or dark greenish gray (5GY4/1). Slightly moist to moist, moderate cohesion, medium stiff consistency. Tends to have lowest moisture content. Slight to moderate plasticity.
	0-2.5	**Interbedded CLAY, silty CLAY, SILT and Sandy SILT (CL, ML, SM)** Dark greenish gray (5GY4/1) to light olive gray (5Y6/1). Moist to saturated, dependent on percentage of particle size. Contacts are sharp, with structure normal to sampler axis to less than 15 degrees downdip. Layer thicknesses are variable, random in alternation with no predictable vertical gradation or lateral continuity. Some very fine-grained, rounded silica sand as stringers. Silt in dark mafic, biotite flakes. Some decomposed organics.
Lower Hydrostratigraphic Unit (HU-B)	0-10	**Sandy SILT (ML)** Olive gray (5Y4/1). Moist with zones of higher sand content saturated. Slight to moderate cohesion, moderate compaction. Stiff to very stiff consistency, rapid dilatancy, nonplastic. Sand is well sorted, very fine and fine-grained rounded quartz particles.
	0-50	**Silty SAND and SAND (SM, SP, SW)** Olive gray (5Y4/1). Saturated, slight cohesion, becoming noncohesive with decrease of silt particles with depth. Dense, moderate compaction. Moderate to well-graded, mostly fine- and medium-grained, with some fine- and coarse-grained particles. Mostly rounded with coarse grains slightly subrounded. Gradual gradation from upper unit, silty sand has abundant dark mafic/biotite flakes. Sand is well-graded, fine gravel to fine sand. Mostly medium-grained, with some fine-grained and few coarse-grained and fine gravel.
Limestone Bedrock Unit (HU-C)	Total thickness not penetrated during drilling	**LIMESTONE** Light olive gray (5Y4/1) with interbedded chert nodules. Generally hard to very hard; difficult to scratch with knife. Slightly weathered, moderately fresh with little to no discoloration or staining. Top 5 ft is moderately fractured, with 99 percent of joints normal to the core axis. Joints are open, planar, and smooth. Some are slightly discolored with trace of hematite staining.

SOURCE: MODIFIED FROM DOE 1994.
NOTE: THE CODES IN PARENTHESES FOLLOWING LITHOLOGIES ARE THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) CODES.

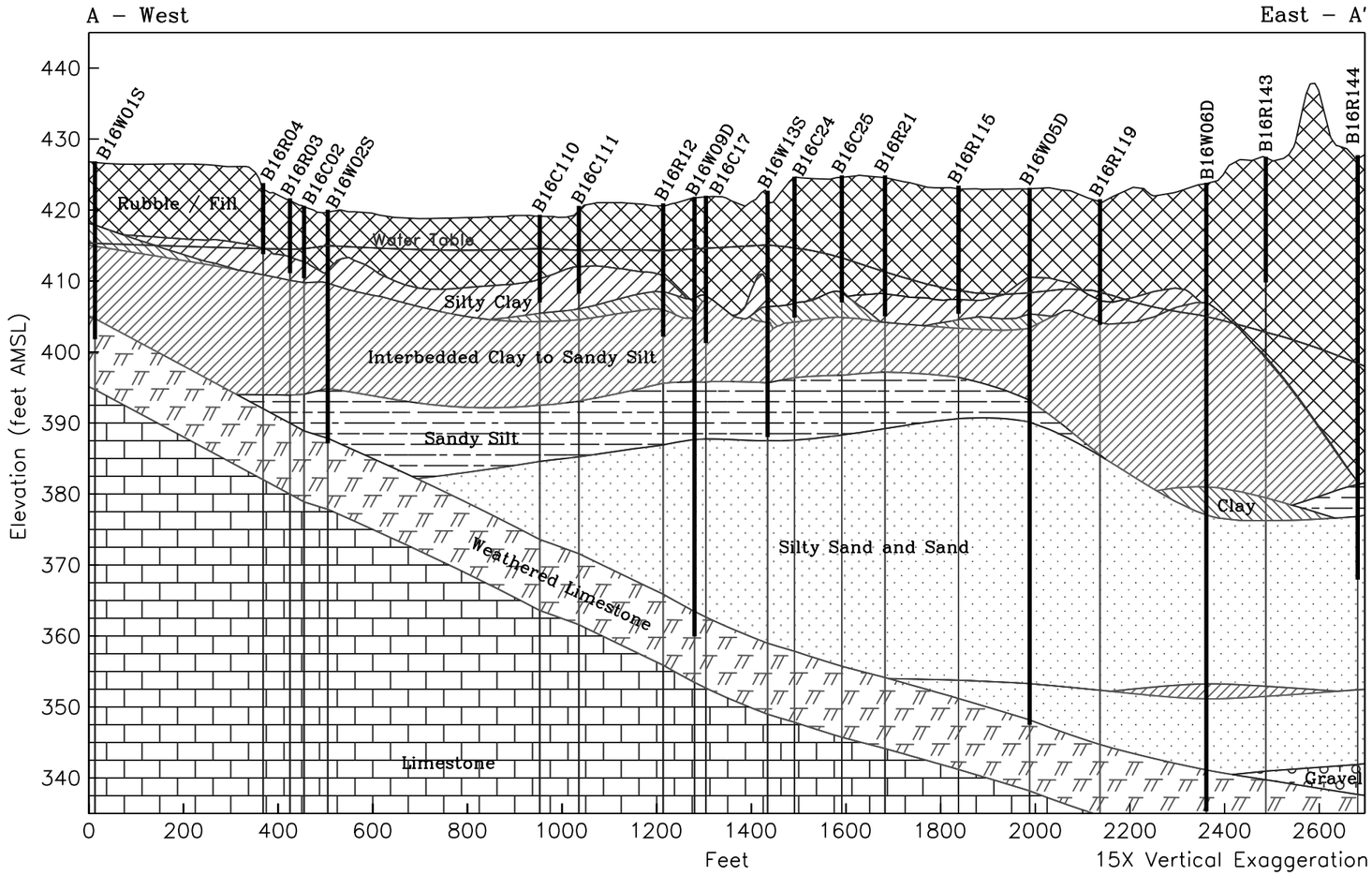
THE CODES IN PARENTHESES FOLLOWING THE COLORS REPRESENT CHROMA, HUE AND VALUE FROM THE MUNSELL SOIL COLOR CHARTS.

NOT TO SCALE

FUSRAP

Figure 4-1. Generalized Stratigraphic Column for the SLDS

DRAWN BY:	REV. NO./DATE:	CAD FILE:
C.Kaple	0 - 06/01/00	



Geologic data used in the cross section collected prior to 1998.

Cross Section Location Map

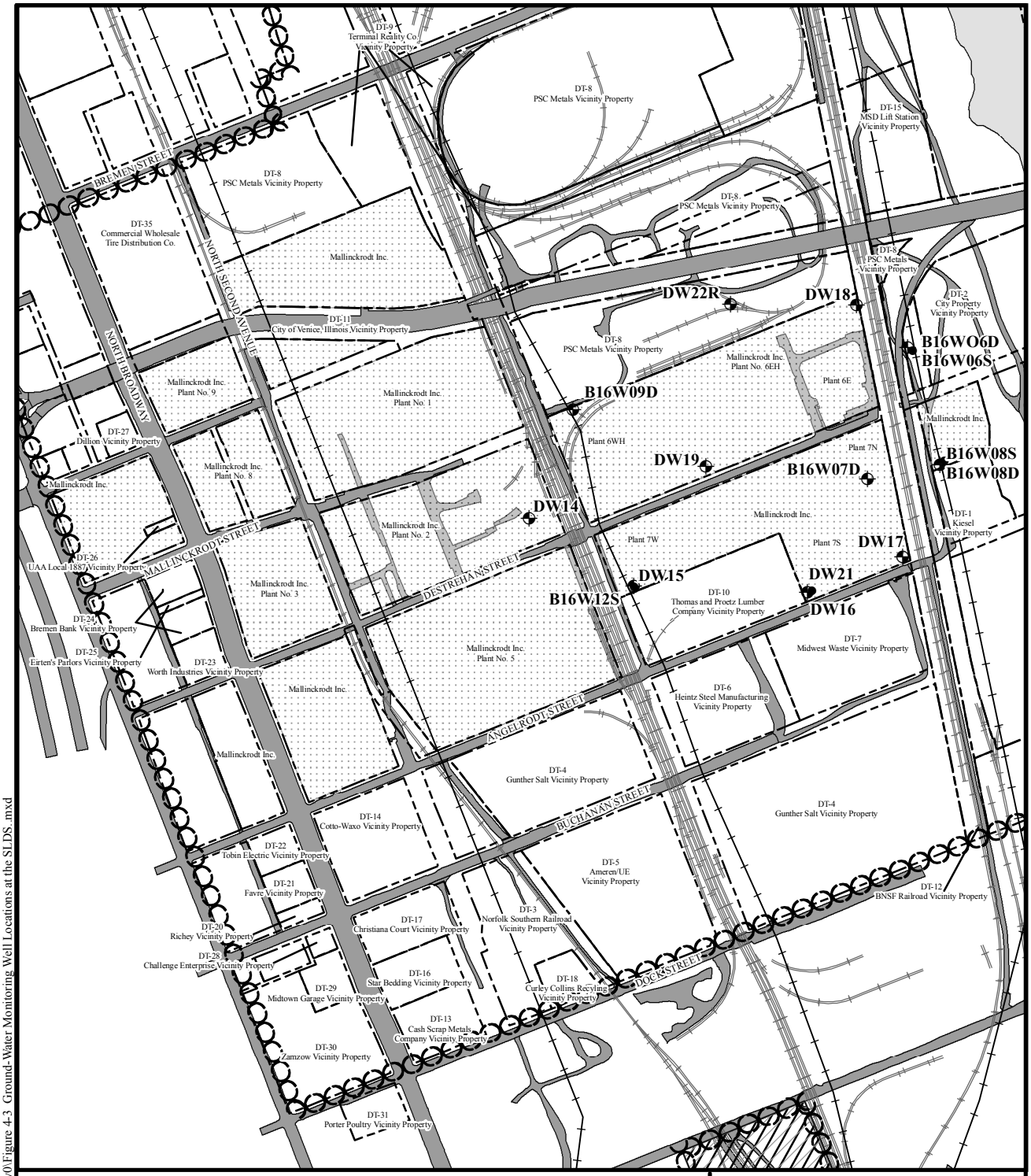
FUSRAP

Figure 4-2. SLDS Geologic Cross-Section A-A'

Drawn By: R. Smith

Rev. No. - Date: 0 - 03/24/99

File: SLDSGlg01XSectA.sho



Legend

- HU-A
- HU-B
- ROD Boundary
- Terminal Railroad Association Soil Spoils Area
- Mallinckrodt Property
- Vicinity Properties
- Railroad
- Road

N
W E
S

MO-East State Plane
(NAD 83, Feet)

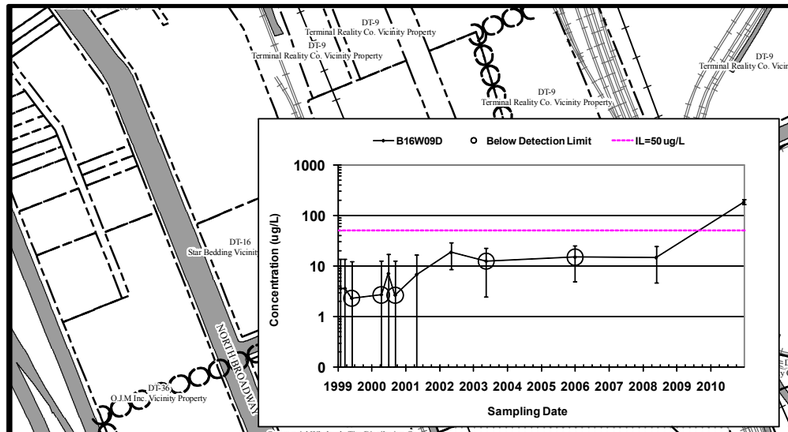
0 120 240 Feet

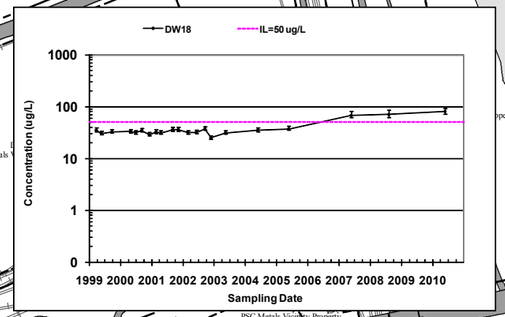
Figure 4-3.
Ground-Water Monitoring Well Locations at the SLDS

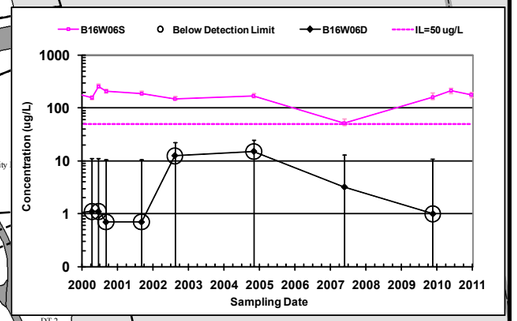
FUSRAP

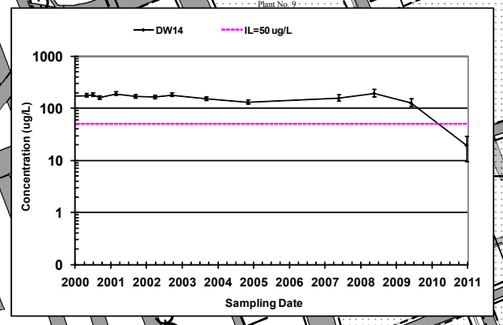
DRAWN BY:	REV:	DATE:
KLP	0	5-31-2011

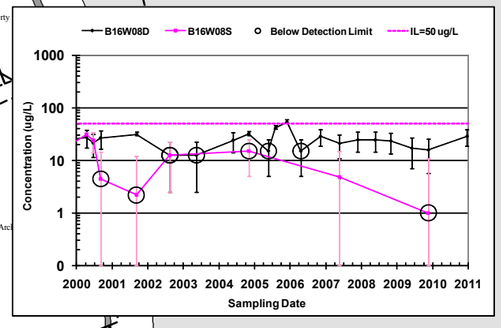
U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 4-3 Ground-Water Monitoring Well Locations at the SLDS .mxd

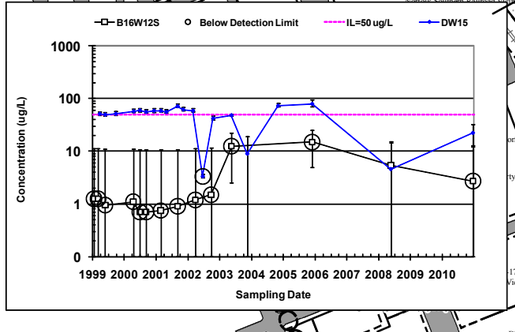


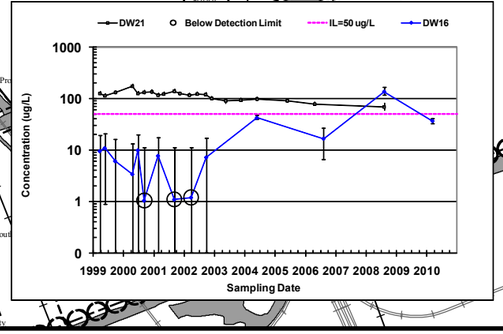


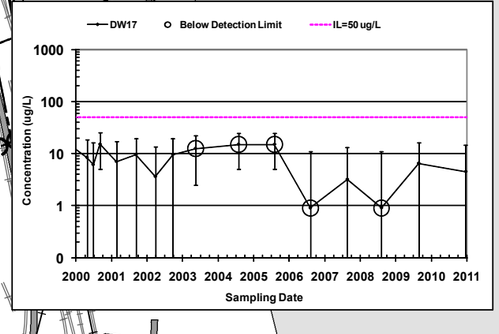












Legend

- ROD Boundary
- Vicinity Properties
- Road
- Mallinckrodt Property
- Railroad
- River/Stream
- Existing HU-A Monitoring Well
- Existing HU-B Monitoring Well

Error Bars are depicted on this chart but may not be visible due to the logarithmic scale.

N
W E
S

MO-East State Plane
(NAD 83, Feet)

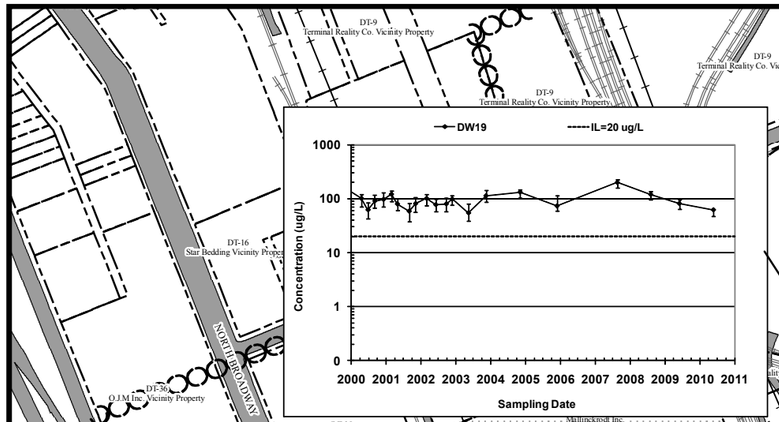
0 87.5 175 Feet

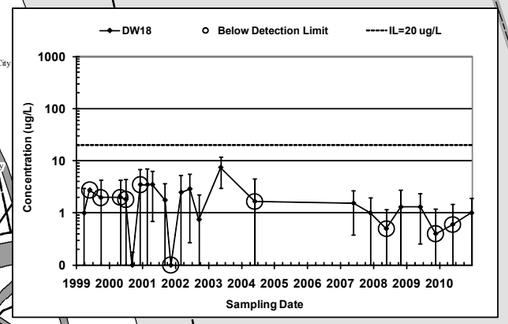
Figure 4-4. Arsenic Concentration Trends in Unfiltered Ground Water at the SLDS

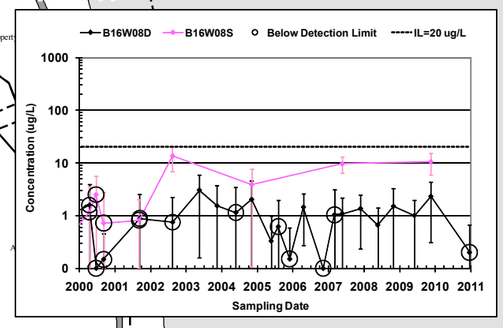
FUSRAP

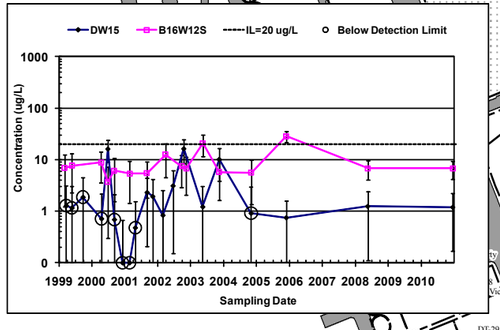
DRAWN BY:	REV:	DATE:
TDC, KLP	0	5-27-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 4-4 Arsenic Concentration Trends in Unfiltered Ground WAter at the SLDS.mxd









Legend

- ROD Boundary
- Vicinity Properties
- Road
- Mallinckrodt Property
- Railroad
- River/Stream
- Existing HU-A Monitoring Well
- Existing HU-B Monitoring Well
- Error Bars are depicted on this chart but may not be visible due to the logarithmic scale.

N
W E
S

MO-East State Plane
(NAD 83, Feet)

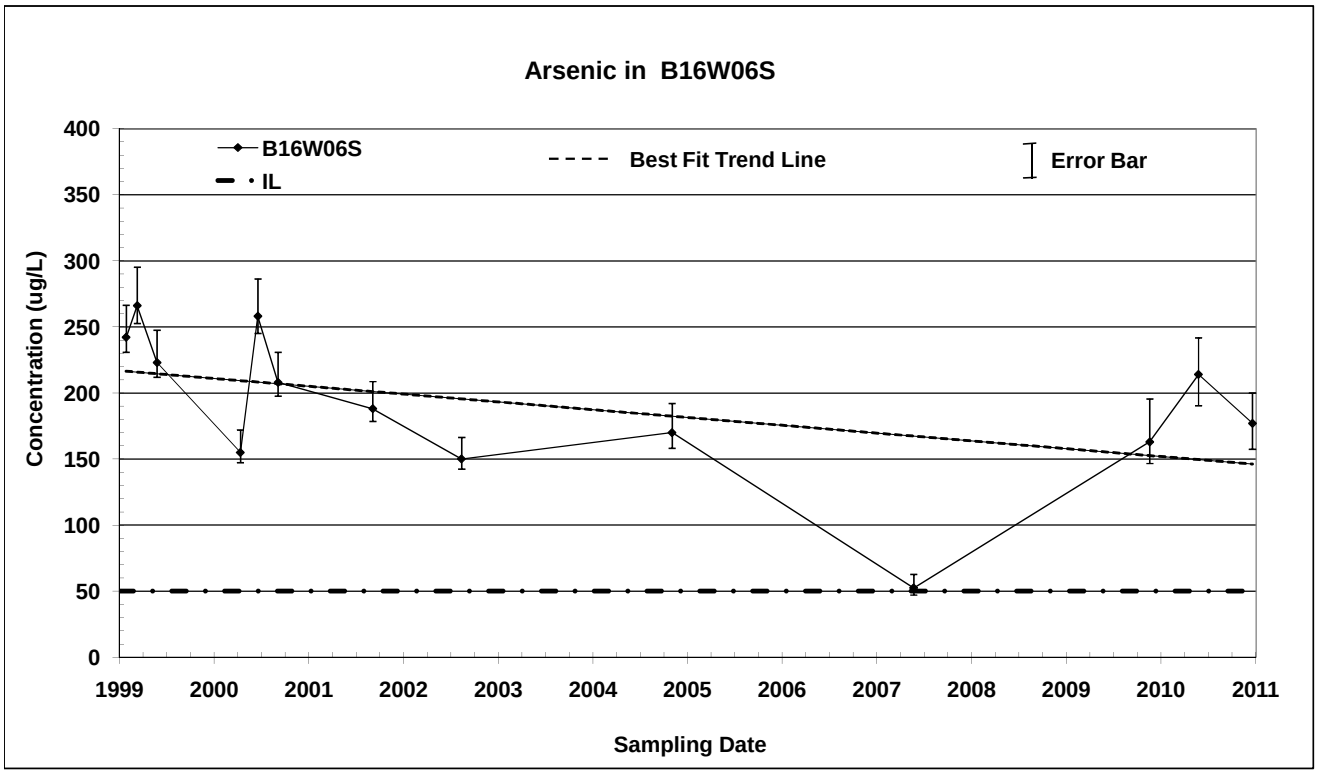
0 87.5 175 Feet

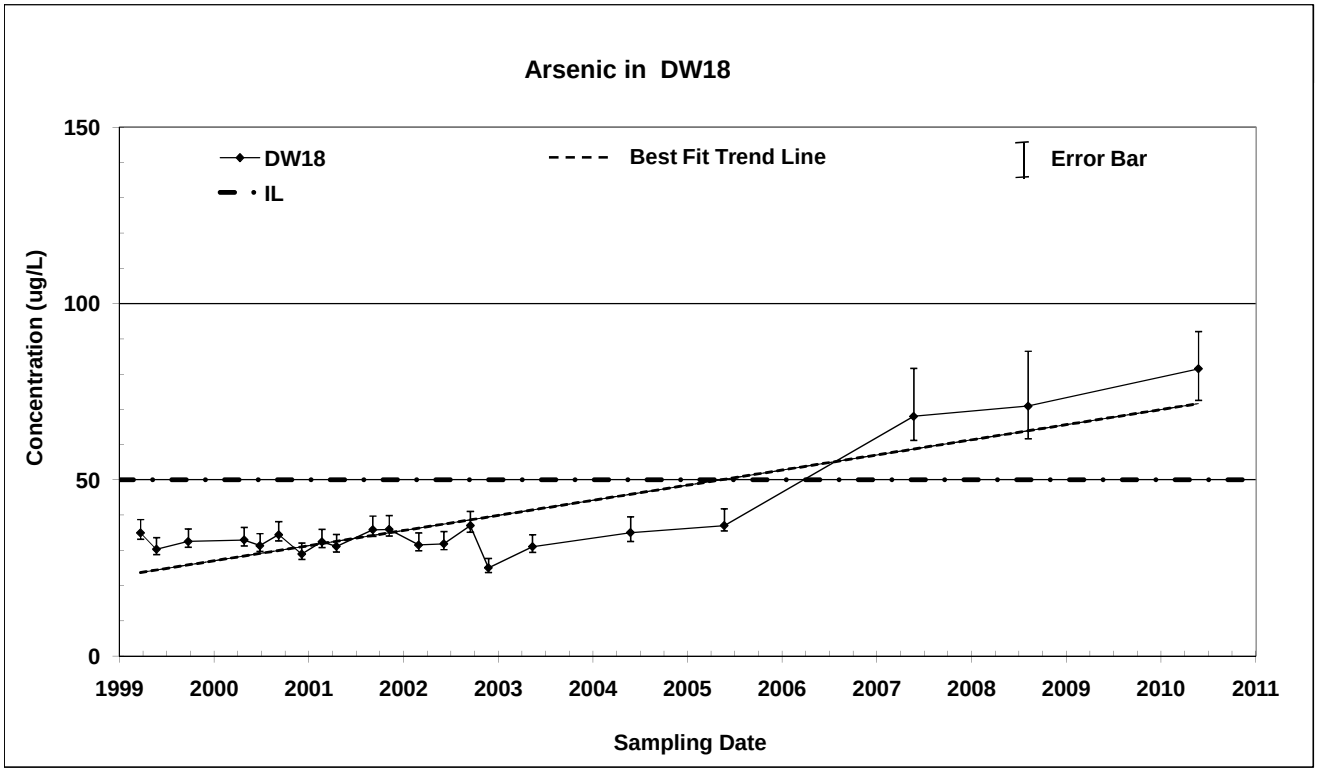
Figure 4-5. Total Uranium Concentration Trends in Unfiltered Ground Water at the SLDS

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	5-27-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure 4-5 Total Uranium Concentrations in Unfiltered HZ-A Ground Water at the Latty Avenue Properties.mxd





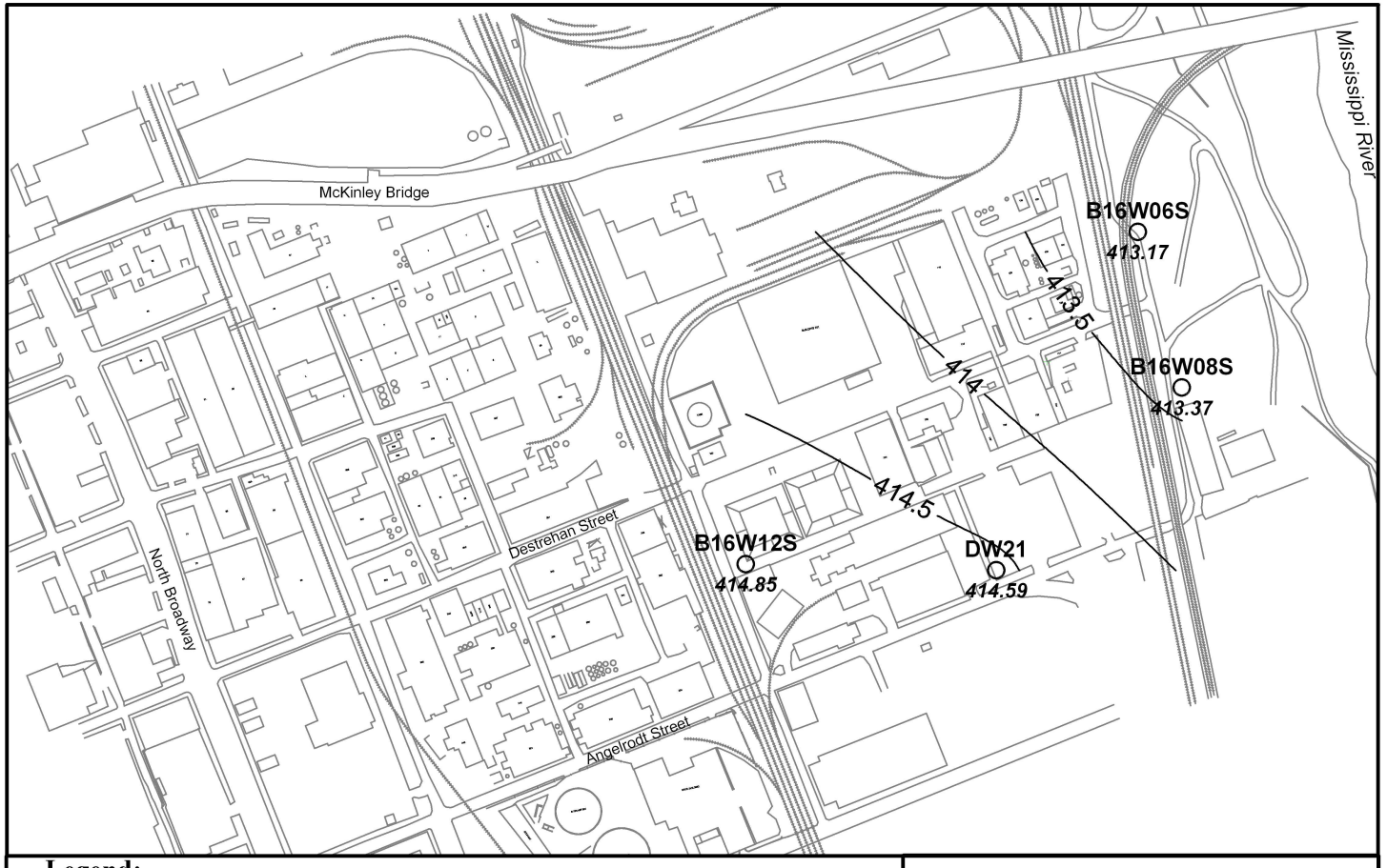
Notes:

For arsenic results less than 3 times the reporting limit (RL), the error bar represents ± RL.

For arsenic results exceeding 3 times the RL, the error bar represents the Upper and Lower Control Limits on the Control Spike Samples.

Arsenic error bars for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.

Figure 4-6. Time Versus Concentration Plots for SLDS



Legend:

——— **HU-A Ground-Water Elevation Contours**

○ **HU-A Monitoring Well Locations**

Ground-water elevations in feet above mean sea level (amsl)
0.5 - foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft

0 200 400 600 800

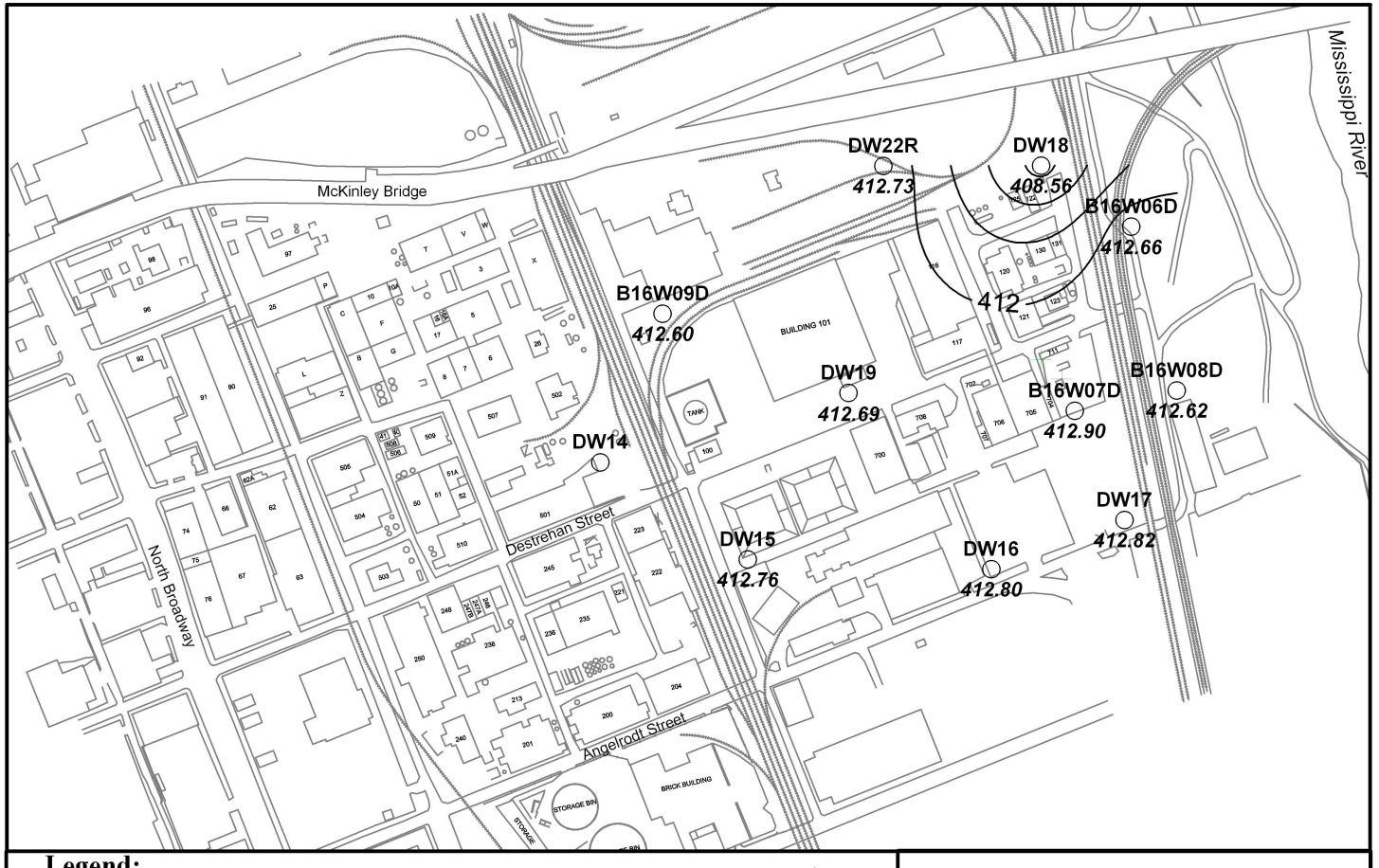
N

MO - East State Plane Coordinate System (NAD83, Feet)

FUSRAP

Figure 4-7. HU-A Potentiometric Surface at the SLDS (May 26, 2010)

DRAWN BY:	REV. - DATE:
C. Woehr	0 - 12/21/10



Legend:

——— **HU-B Ground-Water Elevation Contours**

○ **HU-B Monitoring Well Locations**

Ground-water elevations in feet above mean sea level (amsl)
1.0 - foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft

0 200 400 600 800

N

MO - East State Plane Coordinate System (NAD83, Feet)

FUSRAP

Figure 4-8. HU-B Potentiometric Surface at the SLDS (May 26, 2010)

DRAWN BY:	REV. - DATE:
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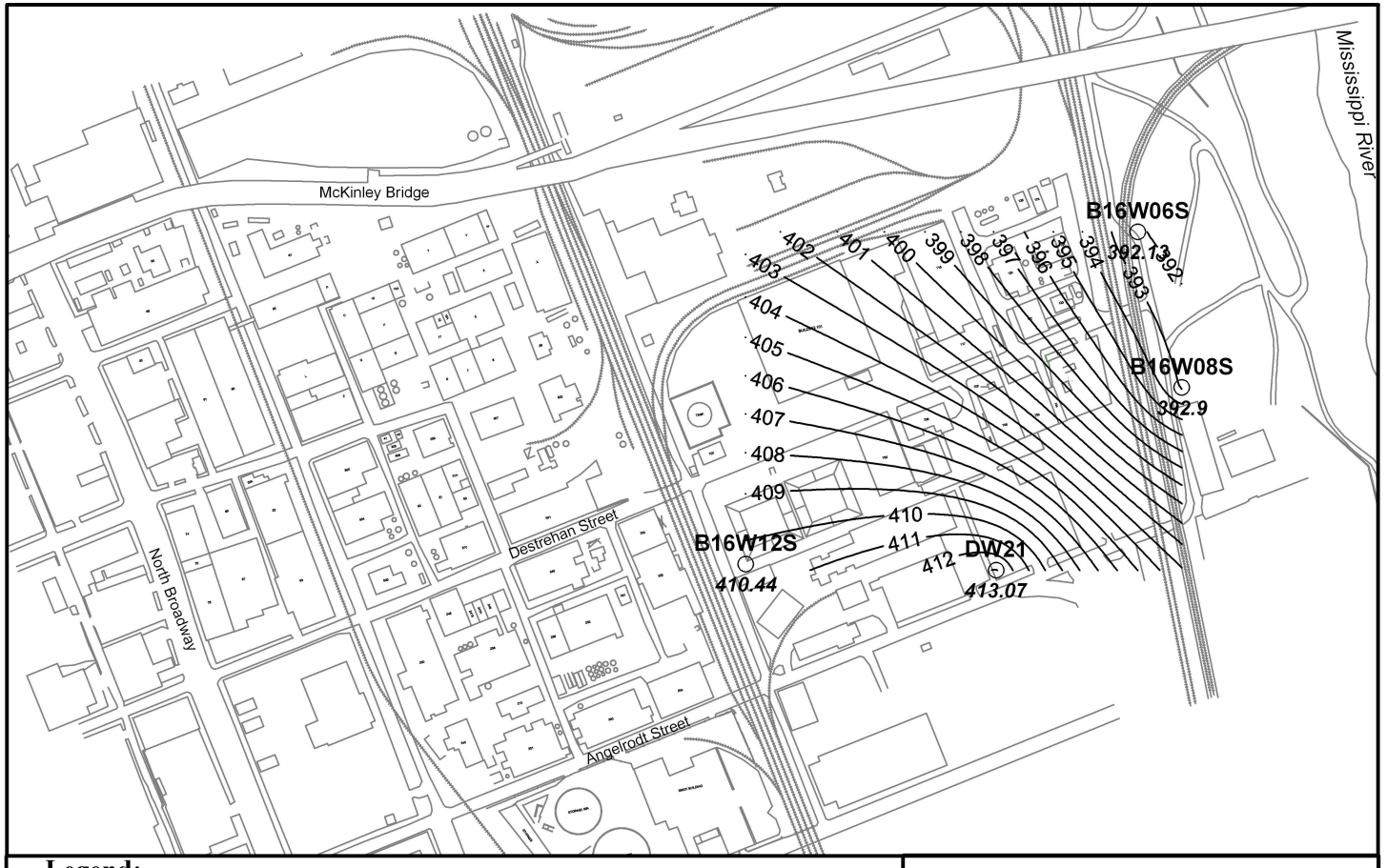


Legend:

HU-A Ground-Water Elevation Contours

HU-A Monitoring Well Locations

Ground-water elevations in feet above mean sea level (amsl)
1.0 - foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft

0 200 400 600 800

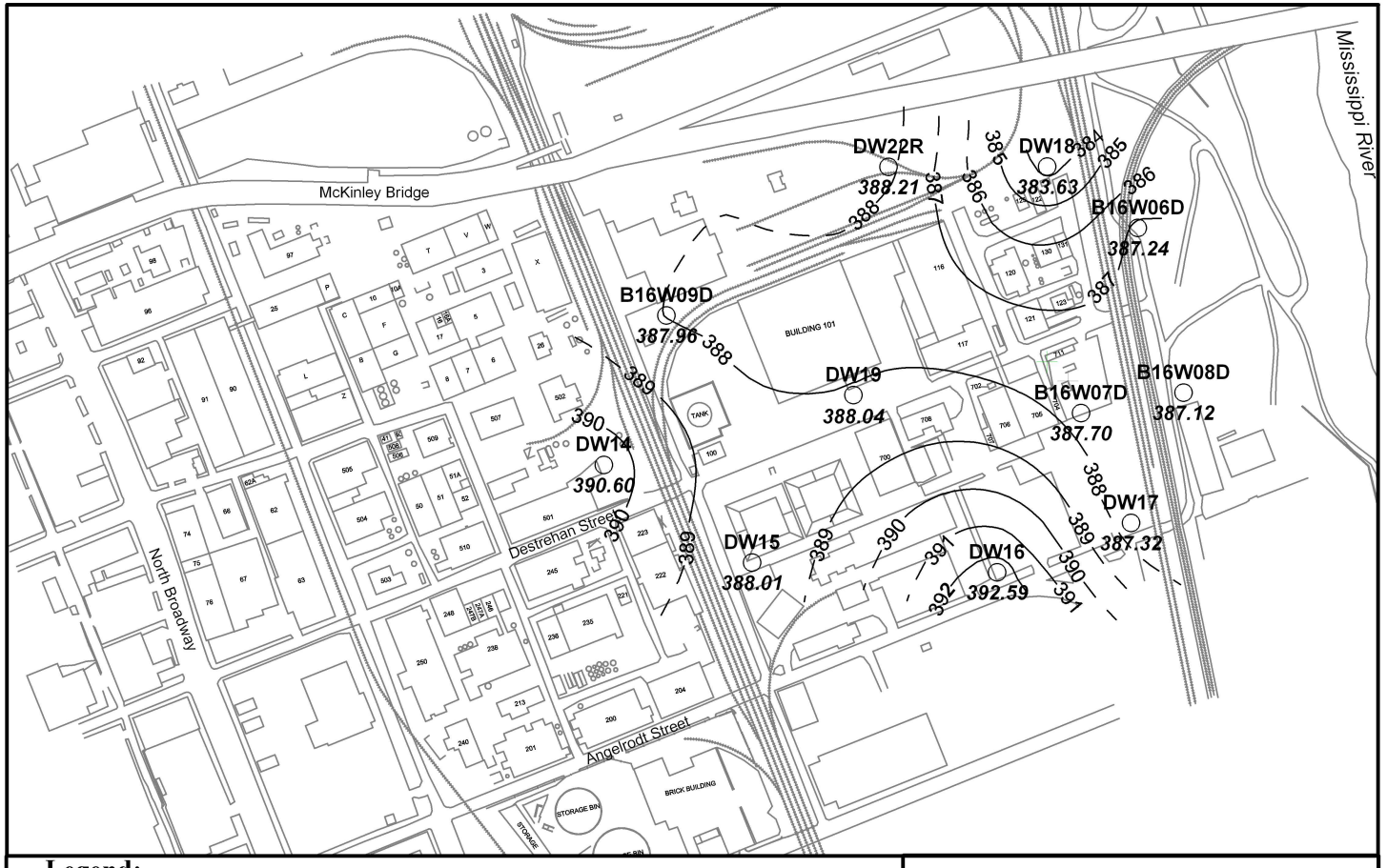
N

MO - East State Plane Coordinate System (NAD83, Feet)

FUSRAP

Figure 4-9. HU-A Potentiometric Surface at the SLDS (Dec. 20, 2010)

DRAWN BY:	REV. - DATE:
C. Woehr	0 - 01/06/11



Legend:

——— **HU-B Ground-Water Elevation Contours**

○ **HU-B Monitoring Well Locations**

Ground-water elevations in feet above mean sea level (amsl)
1.0 - foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft

0 200 400 600 800

N

MO - East State Plane Coordinate System (NAD83, Feet)

FUSRAP

Figure 4-10. HU-B Potentiometric Surface at the SLDS (Dec. 20, 2010)

DRAWN BY:	REV. - DATE:
C. Woehr	0 - 1/6/11

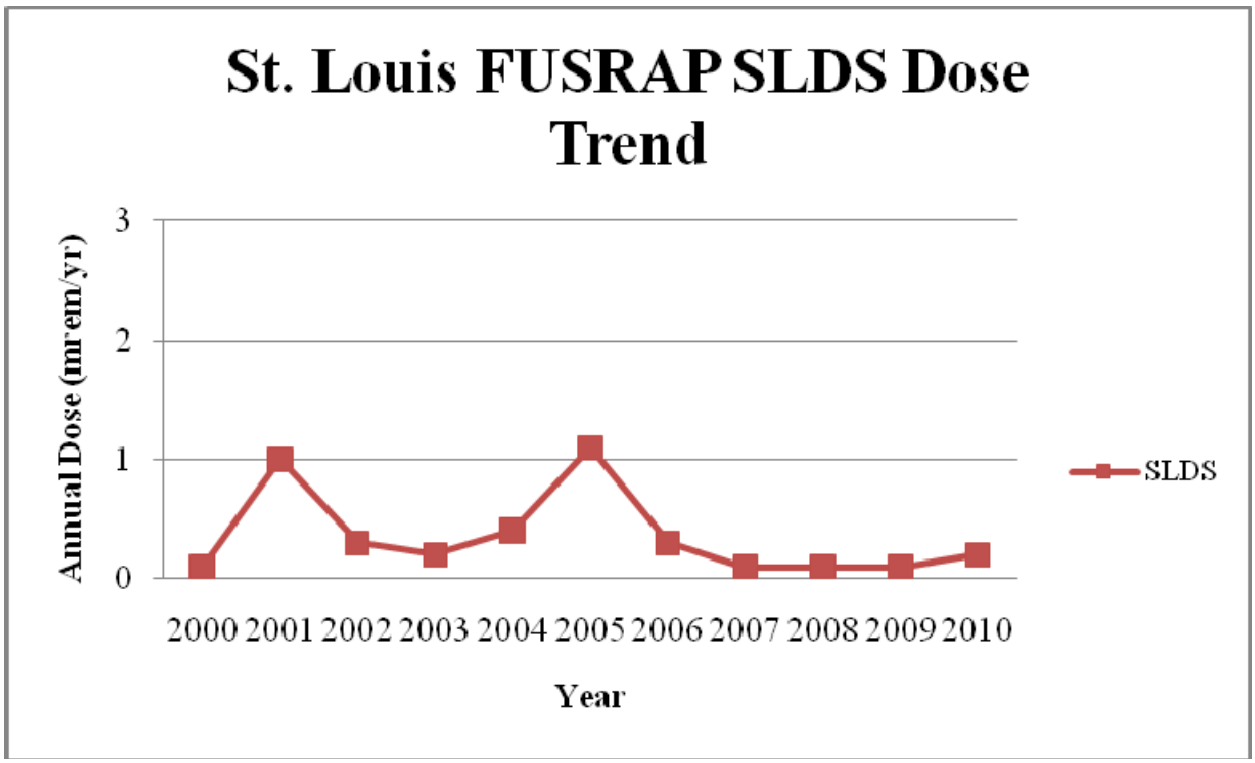


Figure 6-1. St. Louis FUSRAP SLDS Dose Trends

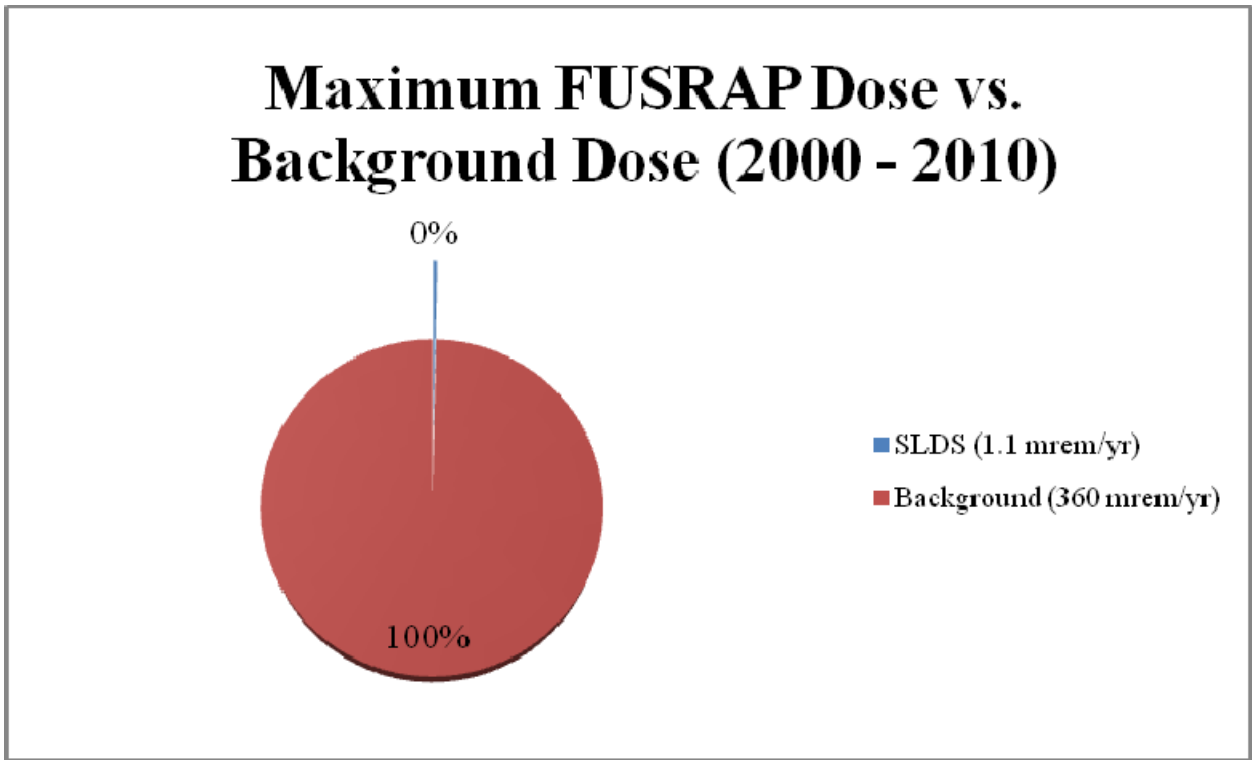


Figure 6-2. St. Louis FUSRAP SLDS Maximum Dose vs. Background Dose

APPENDIX A

ST. LOUIS DOWNTOWN SITE 2010 RADIONUCLIDE EMISSIONS NESHAP REPORT SUBMITTED IN ACCORDANCE WITH REQUIREMENTS OF 40 *CFR* 61, SUBPART I

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LIST OF FIGURES

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ACRONYMS AND ABBREVIATIONS

µCi/cm^3	microcurie per cubic centimeter
µCi/mL	microcurie per milliliter
AEC	U.S. Atomic Energy Commission
BNSF	Burlington Northern Santa Fe
° C	degree(s) Celsius (centigrade)
CFR	*Code of Federal Regulations*
Ci/yr	curie per year
cm/yr	centimeter per year
CY	calendar year
EDE	effective dose equivalent
FUSRAP	Formerly Utilized Sites Remedial Action Program
m	meter(s)
m^2	square meter
Mallinckrodt	Mallinckrodt Chemical Works
m/min	meters per minute
m^3/min	cubic meter(s) per minute
mrem/yr	millirem per year
mSv/yr	milliseivert
NESHAP	National Emission Standard for Hazardous Air Pollutants
SLAPS	St. Louis Airport Site
SLDS	St. Louis Downtown Site
USEPA	U.S. Environmental Protection Agency
VP	vicinity property

EXECUTIVE SUMMARY AND DECLARATION STATEMENT

This report presents the results of National Emission Standard for Hazardous Air Pollutants (NESHAP) calculations for the St. Louis Formerly Utilized Sites Remedial Action Program (FUSRAP) St. Louis Downtown Site (SLDS) for calendar year (CY) 2010. NESHAP requires the calculation of the effective dose equivalent (EDE) from radionuclide emissions to critical receptors. The report follows the requirements and procedures contained in 40 *Code of Federal Regulations* (*CFR*) 61, Subpart I, *National Emission Standards for Radionuclide Emissions From Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H.*

This report evaluates SLDS properties where there was a reasonable potential for radionuclide emissions due to St. Louis FUSRAP activities. These sites include: Plant 6 and Burlington Northern Santa Fe (BNSF) Railroad Vicinity Property (VP) (DT-12).

Emissions from the SLDS were evaluated for the entire CY 2010 to provide a conservative estimate of total emissions.

The NESHAP standard of EDE to a critical receptor from radionuclide emissions is 10 millirem per year (mrem/yr) (0.1 milliseivert per year [mSv/yr]). The SLDS did not exceed this standard. The EDE from radionuclide emissions at the SLDS was calculated using soil characterization data, air particulate monitoring data, and the U.S. Environmental Protection Agency (USEPA) CAP88-PC modeling code, which resulted in an EDE at the SLDS of less than 0.1 mrem/yr (<0.001 mSv/yr).

The evaluation for the SLDS resulted in less than 10 percent of the dose standard in 40 *CFR* 61.102. This site is exempt from the reporting requirements of 40 *CFR* 61.104(a).

DECLARATION STATEMENT – 40 *CFR* 61.104(a)(xvi)

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See 18 *U.S.Code* 1001.

_____ _____

Signature Date

Office: U.S. Army Corps of Engineers, St. Louis District Office
Address: 8945 Latty Ave.
Berkeley, MO 63134
Contact: Jon Rankins

1.0 PURPOSE

This report calculates the EDE from radionuclide emissions (exclusive of radon) to critical receptors from the SLDS where there was a reasonable potential for radionuclide emissions due to St. Louis FUSRAP activities. These sites include: Plant 6 and BNSF Railroad VP (DT-12). The air emissions from the SLDS are ground releases of particulate radionuclides in soil as a result of windblown action and remedial activity in the form of excavation and off-site disposal of soil.

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2.0 METHOD

Emission rates for the SLDS were modeled using guidance documents referenced in 40 *CFR* 61, Appendix E, "Compliance Procedures Methods for Determining Compliance with Subpart I" (USEPA 1989), and were measured by collection of environmental air samples. Emission rates were input into the USEPA computer code CAP88-PC, along with appropriate meteorological data and distances to critical receptors[1], to obtain the EDE from the air emissions.

Although 40 *CFR* 61.103 requires the use of the USEPA computer code COMPLY, USEPA no longer supplies technical support for COMPLY. However, the USEPA lists both COMPLY and CAP88-PC as "Atmospheric transport models for assessing dose and risk from radioactive air emissions". The USEPA continues to maintain and update the CAP88-PC modeling program and has updated it as recently as December 9, 2007. In previous FUSRAP NESHAP reports, both COMPLY and CAP88-PC results have been compared. This comparison indicated that CAP88-PC is a comparable and conservative method of demonstrating compliance with 40 *CFR* 61, Subpart I. For these reasons, CAP88-PC was used in this report to demonstrate compliance with the NESHAP standard.

2.1 EMISSION RATE

The method used to determine particulate radionuclide emission rates from the sites was 40 *CFR* 61, Appendix D, "Methods for Estimating Radionuclide Emissions". Emissions during excavations were evaluated using air sampling data at the excavation and loadout perimeters.

2.2 EFFECTIVE DOSE EQUIVALENT

The EDE to critical receptors[1] is obtained using USEPA computer code CAP88-PC, Version 3.0 (USEPA 2007). CAP88-PC uses a Gaussian plume equation to estimate the dispersion of radionuclides and is referenced by the USEPA to demonstrate compliance with the NESHAP emissions criterion in 40 *CFR* 61. An area ground release at a height of one meter (m) is modeled for the SLDS.

The EDE is calculated by combining doses from ingestion, inhalation, air immersion, and external ground surface. CAP88-PC contains historical weather data libraries for major airports across the country, and the results can be modeled for receptors at multiple distances from the emissions source.

[1] "Critical receptors," as used in this report, are the locations for the nearest residence, school, business, and farm.

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3.0 METEOROLOGICAL DATA

Meteorological data was obtained from the CAP88-PC code for the St. Louis Lambert International Airport (wind file 13994.WND). Data in the file was accumulated from 1988 through 1992.

Average Annual Wind Velocity	4.446 meters/second
Average Annual Precipitation Rate	111 centimeters per year (cm/yr)
Average Annual Air Temperature	14.18 degrees Celsius (ºC)

Wind speed frequency data was obtained from St. Louis Lambert International Airport (see Table A.3-1).

Table A.3-1. St. Louis Wind Speed Frequency

Wind Speed Group, Knots[a]	Frequency
0 – 3	0.10
4 – 7	0.29
8 – 12	0.36
13 – 18	0.21
19 – 24	0.03
25 – 31	0.01

[a] knot = 1.151 miles/hour

Wind direction frequency was obtained from the CAP88-PC wind file, 13994.WND (see Table A.3-2).

Table A.3-2. St. Louis Wind Rose Frequency

Wind direction (wind towards)	Wind From	Wind Frequency	Wind direction (wind towards)	Wind From	Wind Frequency
N	S	0.131	S	N	0.056
NNW	SSE	0.074	SSE	NNW	0.043
NW	SE	0.068	SE	NW	0.061
WNW	ESE	0.069	ESE	WNW	0.087
W	E	0.055	E	W	0.090
WSW	ENE	0.028	ENE	WSW	0.068
SW	NE	0.031	NE	SW	0.054
SSW	NNE	0.037	NNE	SSW	0.050

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4.0 SLDS PROPERTIES UNDER ACTIVE REMEDIATION

4.1 SITE HISTORY

From 1942 until 1957, Mallinckrodt Chemical Works (Mallinckrodt) was contracted by the Manhattan Engineer District and the U.S. Atomic Energy Commission (AEC) to process uranium ore for the production of uranium metal. Residuals of the process, including spent pitchblende ore, process chemicals, and radium, thorium, and uranium, were inadvertently released from the Mallinckrodt Plant into the environment through handling and disposal practices. Residuals from the uranium process had elevated levels of radioactive radium, thorium, and uranium. From 1942 to 1945, Plants 1, 2, 6, 7, and 4 (now Plant 10) were involved in the development of uranium-processing techniques, uranium compounds and metal production, and uranium metal recovery from residues and scrap. Uranium-bearing process residues from these operations were stored at the St. Louis Airport Site (SLAPS) and the Latty Avenue Properties from 1946 to 1966. Relocation and storage of these processed wastes at SLAPS and the Latty Avenue Properties resulted in the subsequent contamination of the SLAPS VPs. Mallinckrodt decontaminated Plants 1 and 2 from 1948 through 1950 to meet the AEC criteria then in effect, and the AEC released these plants for use without radiological restrictions in 1951. Mallinckrodt is now owned and operated by Covidien.

4.2 MATERIAL HANDLING AND PROCESSING FOR CY 2010

Excavation activities were performed at the SLDS areas of Plant 6 and DT-12. Additionally, loadout activities were performed at Plant 6. Excavated soils placed in the loadout area remained covered for most of the year, except during normal working hours. The excavated soils were removed from the site by rail. General area air samples were collected around excavation perimeters during CY 2010, with the results used to determine the excavation emissions. *In situ* emissions from inactive areas of SLDS were not calculated because the ground surface soil at SLDS is generally covered with asphalt or concrete that limits the potential for material to become airborne.

4.3 SOURCE DESCRIPTION – RADIONUCLIDE SOIL CONCENTRATIONS

For the SLDS excavation areas, the activity fraction for each radionuclide was determined from radionuclide concentrations listed in the *St. Louis FUSRAP Internal Dosimetry Technical Basis Manual* (USACE 1999) or in property-specific Pre-Design Investigation Reports. Attachment 1 contains summary tables of the radionuclide concentrations for each area or plant. The averaged total alpha and total beta air particulate concentrations at each SLDS property and the activity fraction for each corresponding property were used to calculate the emission rate for each area.

4.4 LIST OF ASSUMED AIR RELEASES FOR CY 2010

Wind erosion during periods of remedial action excavations and periods where the loadout pile was uncovered is assumed for the particulate radionuclide emission determinations from the SLDS. Unexcavated VPs do not contribute to the emission determinations for periods of inactivity due to the low activity and cover.

4.5 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown on Figure A-1 and are listed in Table A.4-1. Distances and directions to critical receptors are based on measurements on the U.S. Geological Survey 7.5 minute Florissant Quadrangle Map.

Table A.4-1. SLDS Critical Receptors

Sources	Resident		Farm		Business		School	
	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction
Plant 6	495	SW	2915	NE	160	SSE	750	W
DT-12	695	W	2895	NE	340	NW	1180	W

4.6 EMISSIONS DETERMINATION

4.6.1 Measured Airborne Radioactive Particulate Emissions

Particulate air samples were collected from several locations around the perimeter of the SLDS excavation and loadout areas to measure the radionuclide emissions from remedial activities. The samplers were established at the start of each remedial activity and provide the basis for determining the radionuclide emission rates during CY 2010. The average gross alpha and beta concentrations in microcuries per milliliter (μCi/mL) are determined for each area or plant location for CY 2010. The area or plant average concentrations are presented in Table A.4-2.

Table A.4-2. SLDS Average Gross Alpha and Beta Airborne Particulate Emissions

Sampler Location	Average Concentration (μCi/mL)	
	Gross Alpha	Gross Beta
Plant 6	5.7E-15	2.8E-14
DT-12 BNSF	5.3E-15	2.2E-14
Background Concentration[a]	2.5E-15	1.8E-14

[a] These concentrations are only provided for informational purposes. However, as a conservative approach, they were not subtracted from the gross average concentration during the determination of the EDE.

The activity fractions for all radionuclides at each SLDS property were determined as discussed in Section 4.3. The product of the radionuclide activity fraction and the gross concentration for each property provides the radionuclide emission concentration in microcuries per cubic centimeter (μCi/cm^3) for that area. The gross average concentration (μCi/cm^3) is converted to a release (emission) rate as measured in curies per year (Ci/yr) using Equations (1) and (2). The emission rates are summarized in Table A.4-5.

USEPA 1989 (page 3-21, [2]) provides Equation (1) for determination of the effective diameter of a non-circular stack or vent.

$$D = (1.3\ A)^{1/2} \qquad \textbf{Equation (1)}$$

where:

D is the effective diameter of the release (m), and
A is the area of the stack, vent or release point in square meters (m^2).

Table A.4-3 provides the effective surface area available for release of airborne radionuclides normalized to one year and the effective diameter for each area or plant of SLDS where excavation or loadout was conducted in CY 2010. Calculation of the effective surface area can be referenced in Attachment 1.

Table A.4-3. SLDS Excavation Effective Areas and Effective Diameters

SLDS Location	Effective Area (m^2)	Effective Diameters (m)
Plant 6	1168	39
DT-12	663	29

The average annual wind speed for the St. Louis Lambert International Airport is provided in CAP88-PC as 4.446 meters/second. Conversion of this wind speed to a flow rate through stacks with the listed effective diameters for each area is completed using Equation (2).

$$V = (4)\ F / \pi\ (D)^2 \qquad \textbf{Equation (2)}$$

where:

- V is the wind velocity (meters per minute [m/min]) = 266.76 m/min,
- F is the flow rate (cubic meters per minute [m^3/min]),
- π is a mathematical constant, and
- D is the effective diameter of the release determined using Equation (1) above (m).

Converting the velocity of emissions from the sites to an effective flow rate results in the following site release flow rates for the SLDS areas, as listed in Table A.4-4. The product of the flow rate, the activity fraction associated with each radionuclide, and the appropriate conversion factors provide the site emission rate for each radionuclide, as illustrated in Table A.4-5. Attachment 1 can be referenced for flow rate and average radionuclide concentration data.

Table A.4-4. SLDS Site Release Flow Rates

SLDS Location	Site Release Flow Rate (m^3/min.)
Plant 6	3.18E+05
DT-12	1.81E+05

4.6.2 SLDS Total Airborne Radioactive Particulate Emission Rates

The CY 2010 emission rates for each excavated SLDS area are presented in Table A.4-5 and are based on the air samples collected from the perimeter of the excavated areas.

Table A.4-5. SLDS Area Airborne Radioactive Particulate Emission Rates Based on Excavation Perimeter Air Samples

Radionuclide	Emission (Ci/yr)[a]	
	Plant 6	DT-12
U-238	3.3E-04	1.1E-04
U-235	1.6E-05	6.3E-06
U-234	3.3E-04	1.1E-04
Ra-226	6.4E-05	7.2E-05
Th-232	1.6E-05	2.4E-05
Th-230	1.2E-04	1.2E-04
Th-228	1.6E-05	2.4E-05
Ra-224	1.6E-05	2.4E-05
Th-234	2.2E-03	8.7E-04
Pa-234m	2.2E-03	8.7E-04
Th-231	1.0E-04	4.9E-05
Ra-228	1.0E-04	1.7E-04
Ac-228	1.0E-04	1.7E-04
Pa-231	1.6E-05	6.3E-06
Ac-227	1.6E-05	6.3E-06

[a] Release rate based on 365-day period at a respective flow rate (as presented in Table A.4-4) as determined from the average annual wind speed (4.446 meters/second) and the effective site area (as presented in Table A.4-3) for each location.

4.7 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment 2. The effective area factor input was taken from Table A.4-3. This evaluation demonstrates that all SLDS critical receptors receive less than 10 percent of the dose standard in 40 *CFR* 61.102 and therefore, SLDS is exempt from the reporting requirements of 40 *CFR* 61.104(a). Table A.4-6 summarizes the results.

Table A.4-6. SLDS CAP88-PC Results for Critical Receptors

Source	Dose (mrem/yr)			
	Resident[a]	School[b]	Business[b]	Farm[a]
Plant 6	<0.1	<0.1	<0.1	<0.1
DT-12	<0.1	<0.1	<0.1	<0.1
SLDS Total Dose[c]	**<0.1**	**<0.1**	**<0.1**	**<0.1**

[a] 100 percent occupancy factor.
[b] Corrected for the 23 percent occupancy factor (50 weeks/yr 40 hours/wk).
[c] Combined dose from all sources at SLDS.

5.0 REFERENCES

USACE 1999. *St. Louis-FUSRAP Internal Dosimetry Technical Basis Manual*, U.S. Army Corps of Engineers, St. Louis District Office, FUSRAP, November.

USACE 2010. *Pre-Design Investigation Data Summary Report, Burlington Northern Santa Fe Railroad Vicinity Property (DT-12), FUSRAP St. Louis Downtown Site, St. Louis, Missouri.* Revision 0, April 21.

USEPA 1989. EPA 520/1-89-002, *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities*, U.S. Environmental Protection Agency, Office of Radiation Programs, Washington, DC, October.

USEPA 2007. CAP88-PC Version 3.0 Computer Code, U.S. Environmental Protection Agency, December.

40 *CFR* 61, Subpart I. *National Emission Standards for Radionuclide Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H.*

40 *CFR* Subpart D. *Method for Estimating Radionuclide Emissions.*

40 *CFR* 61 Appendix E. *Compliance Procedures Methods for Determining Compliance with Subpart I.*

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APPENDIX A
FIGURES

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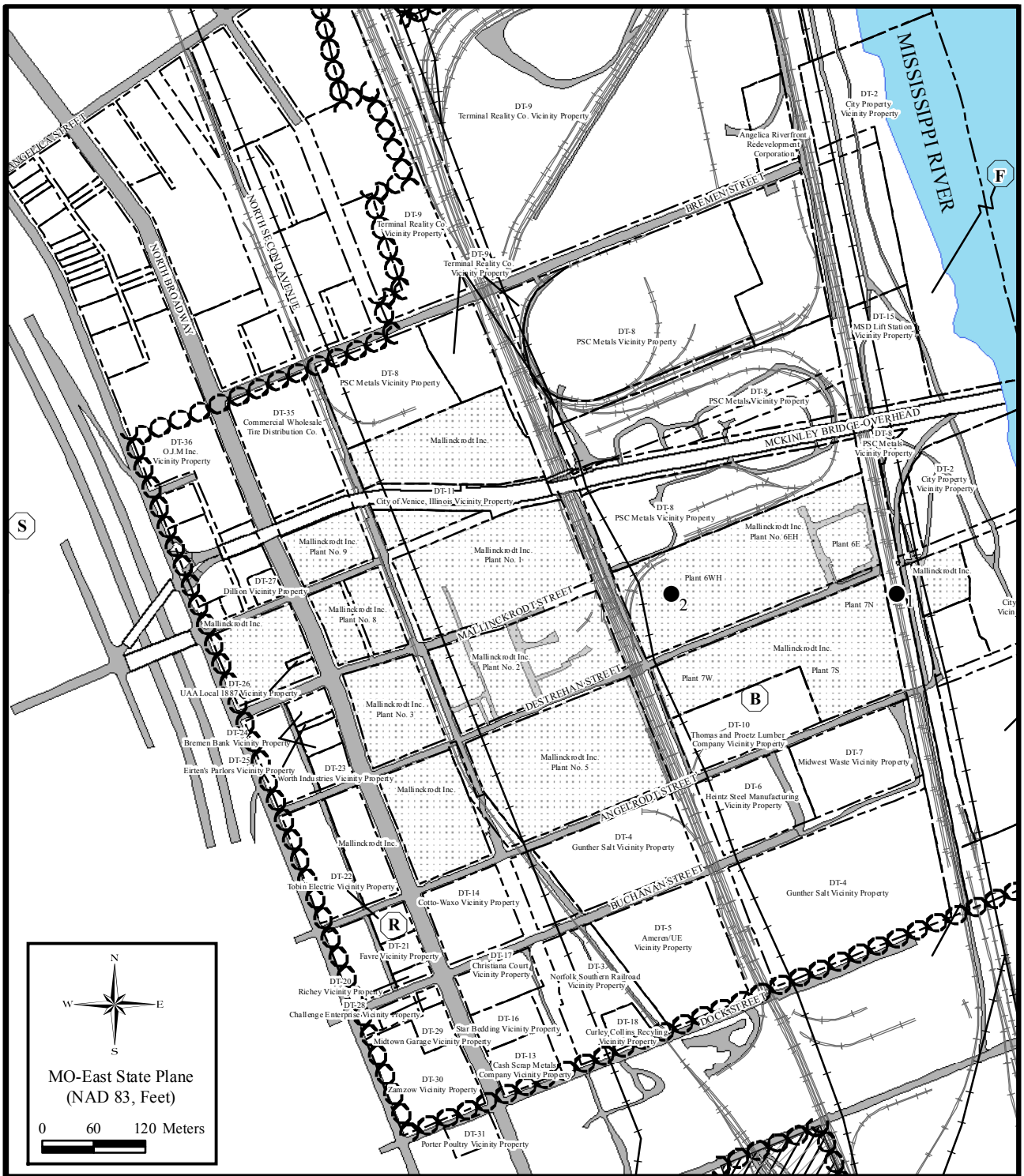

Legend

- ROD Boundary
- Vicinity Properties
- Railroad
- Mallinckrodt Property
- Road
- River/Stream
- Terminal Railroad Association Soil Spoils Area

Location	R Residential	F Farm	B Business	S School
1. DT-12	695 m W	2895 m NE	340 m NW	1180 m W
2. PLANT 6	495 m SW	2915 m NE	160 m SSE	750 m W

Figure A-1. SLDS Critical Receptors

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	6-27-2011

U:\GPS\EMDAR\SLDS Projects\FY2011\Rev0\Figure A-1 SLDS Critical Receptors.mxd

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ATTACHMENT 1
CALCULATED EMISSION RATES FROM SLDS PROPERTIES

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Table A1-1. SLDS Excavation/Loadout Area Soil Radionuclide Concentrations

Property	Plant 6[a]	DT-12[b]	Average[c]
Radionuclide	**Average Concentration[c] (pCi/g)**		
U-238	140	3.4	**72**
U-235	6.6	0.2	**3**
U-234	140	3.4	**72**
Ra-226	27.0	2.2	**15**
Ra-228	6.6	1	**4**
Th-232	6.6	0.7	**4**
Th-230	52	3.5	**28**
Th-228	7	0.7	**4**

[a] Radionuclides and concentrations from *St. Louis-FUSRAP Internal Dosimetry Technical Basis Manual* (USACE 1999).
[b] Data from Table 1 of the *Pre-Design Investigation Data Summary Report, Burlington Northern Santa Fe Railroad Vicinity Property (DT-12), FUSRAP St. Louis Downtown Site* (USACE 2010).
[c] Average concentration from all SLDS CY 2010 excavated properties and loadout areas.
pCi/g = picocuries per gram

Table A1-2. SLDS CY 2010 Average Gross Alpha and Beta Airborne Particulate Concentrations

Location	Average Concentration (µCi/mL) for Location[a]	
	Gross Alpha	**Gross Beta**
Plant 6	5.7E-15	2.8E-14
DT-12	5.3E-15	2.2E-14
Background Concentration[b]	2.5E-15	1.8E-14

[a] Average concentration values for the sampling period by location.
[b] These concentrations are only provided for informational purposes. However, as a conservative approach, they were not subtracted from the gross average concentration during the determination of EDE.

Table A1-3. SLDS CY 2010 Excavation Data

Excavation Location Name	Surface Area (m^2)	Start Date	Backfill Date
Plant 6WH, P2B, EA-4	950	01/01/10	03/18/10
Plant 6WH, P2B, EA-5	501	03/02/10	08/17/10
Plant 6WH, P2B, EA-6	865	07/13/10	11/10/10
Plant 6 Loadout	2,000	01/01/10	12/31/10
DT-12, BNSF, Area 1	112	05/03/10	05/05/10
DT-12, BNSF, Area 2	195	05/05/10	05/20/10
DT-12, BNSF, Area 3	897	07/19/10	11/18/10
DT-12, BNSF, Area 4	542	05/11/10	06/03/10
DT-12, BNSF, Area 5	278	05/25/10	10/04/10
DT-12, BNSF, Area 6	935	05/25/10	08/19/10

Open/close dates set to start or stop at the calendar year boundary.

Table A1-4. SLDS CY 2010 Average Surface Area and Flow Rate Per Location at SLDS

Location	Total Days	Surface Area * Total Days	Average Surface Area/yr (m^2)[a]	Diameter of Stack $D=(1.3*A)^{1/2}$(m)	Flow Rate $F=V*Pi*(D)^2/4$ (m^3/min.)
Plant 6					
Plant 6WH, P2B, EA-4	76	72,200			
Plant 6WH, P2B, EA-5	168	84,168			
Plant 6WH, P2B, EA-6	120	103,800			
Plant 6 Loadout[b]	364	165,984			
	Total	**426,152**	**1,168**	**39**	**3.18E+05**
DT-12					
DT-12, BNSF, Area 1	2	224			
DT-12, BNSF, Area 2	15	2,925			
DT-12, BNSF, Area 3	122	109,434			
DT-12, BNSF, Area 4	23	12,466			
DT-12, BNSF, Area 5	132	36,696			
DT-12, BNSF, Area 6	86	80,410			
	Total	**242,155**	**663**	**29**	**1.81E+05**

[a] Average Surface Area/yr = [Σ(Surface Area x Total days)]/365.
[b] This value has been multiplied by a factor of 0.228 to account for the loadout pile being uncovered for only 2,000 hours per year.

Table A1-5. SLDS Airborne Radioactive Particulate Emissions Based on Excavation Perimeter Air Samples

Property	Plant 6			DT-12		
Radionuclide	Activity Fraction[a]	Emission Conc. (µCi/cm^3)[b]	Release Rate (Ci/yr)[c]	Activity Fraction[a]	Emission Conc. (µCi/cm^3)[b]	Release Rate (Ci/yr)[c]
U-238	0.35	2.0E-15	3.3E-04	0.22	1.2E-15	1.1E-04
U-235	0.02	9.4E-17	1.6E-05	0.01	6.6E-17	6.3E-06
U-234[d]	0.35	2.0E-15	3.3E-04	0.22	1.2E-15	1.1E-04
Ra-226	0.07	3.8E-16	6.4E-05	0.14	7.6E-16	7.2E-05
Th-232	0.02	9.4E-17	1.6E-05	0.05	2.5E-16	2.4E-05
Th-230	0.13	7.4E-16	1.2E-04	0.23	1.2E-15	1.2E-04
Th-228[d]	0.02	9.4E-17	1.6E-05	0.05	2.5E-16	2.4E-05
Ra-224[d]	0.02	9.4E-17	1.6E-05	0.05	2.5E-16	2.4E-05
Th-234[d]	0.47	1.3E-14	2.2E-03	0.41	9.1E-15	8.7E-04
Pa-234m[d]	0.47	1.3E-14	2.2E-03	0.41	9.1E-15	8.7E-04
Th-231[d]	0.02	6.2E-16	1.0E-04	0.02	5.2E-16	4.9E-05
Ra-228[d]	0.02	6.2E-16	1.0E-04	0.08	1.8E-15	1.7E-04
Ac-228[d]	0.02	6.2E-16	1.0E-04	0.08	1.8E-15	1.7E-04
Pa-231[d]	0.02	9.4E-17	1.6E-05	0.01	6.6E-17	6.3E-06
Ac-227[d]	0.02	9.4E-17	1.6E-05	0.01	6.6E-17	6.3E-06

[a] Derived from the average soil radionuclide concentrations for SLDS, as presented in Table A.1-1.
[b] Emission concentration is equal to the activity fraction * the gross alpha or gross beta airborne particulate concentrations listed in Table A.1-2.
[c] Release rate based on 365-day period at measured flow rate (Table A.1-4) for each site, as determined from the average annual wind speed (4.446 meters/second) and calculated site area (Table A.1-4). (Note: 1 mL = 1 cm^3.)
[d] Note: When data was not available, the radionuclide was assumed to be in secular equilibrium with parent.

ATTACHMENT 2
CAP88-PC OUTPUT REPORT FOR SLDS PROPERTIES

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CAP88 OUTPUT RESULTS

PSC METALS

Plant 6

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment
Mar 9, 2011 10:56 am

Facility: Plant 6
Address: Mallinckrodt
City: St. Louis
State: MO **Zip:** 63147

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: Plant 6 2010
Dataset Date: 3/9/2011 9:57:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 10:56 am **SUMMARY**
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	2.86E-03
B Surfac	6.31E-01
Breasts	3.01E-03
St Wall	2.92E-03
ULI Wall	3.19E-03
Kidneys	1.35E-02
Lungs	1.56E-01
Ovaries	7.72E-03
R Marrow	2.92E-02
Spleen	2.94E-03
Thymus	2.91E-03
Uterus	2.89E-03
Bld Wall	2.94E-03
Brain	2.91E-03
Esophagu	4.93E-02
SI Wall	2.91E-03
LLI Wall	3.73E-03
Liver	3.85E-02
Muscle	3.04E-03
Pancreas	2.86E-03
Skin	3.74E-02
Testes	7.92E-03
Thyroid	2.96E-03
EFFEC	6.57E-01

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	1.89E-02
INHALATION	6.37E-01
AIR IMMERSION	2.48E-06
GROUND SURFACE	1.25E-03
INTERNAL	6.56E-01
EXTERNAL	1.25E-03
TOTAL	6.57E-01

Mar 9, 2011 10:56 am **SUMMARY**
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	7.55E-02
Th-234	1.45E-03
Pa-234m	3.49E-04
Pa-234	1.06E-05
U-234	9.18E-02
Th-230	1.34E-01
Ra-226	2.04E-02
Rn-222	3.84E-13
Po-218	2.00E-09
Pb-214	5.54E-05
Bi-214	3.33E-04
Po-214	1.83E-08
Pb-210	1.93E-05
Bi-210	6.09E-08
Po-210	1.61E-06
At-218	1.66E-10
U-235	3.96E-03
Th-231	3.55E-06
Pa-231	1.19E-01
Ac-227	9.24E-02
Th-227	9.63E-06
Ra-223	5.44E-05
Rn-219	0.00E+00
Po-215	5.81E-09
Pb-211	3.28E-06
Bi-211	1.52E-06
Tl-207	1.92E-06
Po-211	7.02E-10
Fr-223	1.05E-07
Th-232	3.16E-02
Ra-228	3.18E-02
Ac-228	4.29E-04
Th-228	5.03E-02
Ra-224	3.77E-03
Rn-220	8.84E-11
Po-216	1.26E-09
Pb-212	1.22E-05
Bi-212	1.75E-05
Po-212	0.00E+00
Tl-208	8.31E-05
TOTAL	6.57E-01

Mar 9, 2011 10:56 am SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	3.24E-10
Stomach	8.65E-10
Colon	3.12E-09
Liver	9.00E-09
LUNG	3.08E-07
Bone	8.13E-09
Skin	5.75E-11
Breast	5.02E-10
Ovary	1.30E-09
Bladder	7.59E-10
Kidneys	1.13E-09
Thyroid	6.67E-11
Leukemia	1.61E-09
Residual	3.31E-09
Total	3.38E-07
TOTAL	6.76E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	6.50E-09
INHALATION	3.31E-07
AIR IMMERSION	1.18E-12
GROUND SURFACE	5.31E-10
INTERNAL	3.38E-07
EXTERNAL	5.33E-10
TOTAL	3.38E-07

Mar 9, 2011 10:56 am **SUMMARY**
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	6.24E-08
Th-234	1.38E-09
Pa-234m	5.61E-11
Pa-234	5.78E-12
U-234	7.60E-08
Th-230	6.87E-08
Ra-226	1.58E-08
Rn-222	2.09E-19
Po-218	1.10E-15
Pb-214	2.96E-11
Bi-214	1.77E-10
Po-214	1.00E-14
Pb-210	6.41E-12
Bi-210	2.89E-14
Po-210	6.16E-13
At-218	7.86E-17
U-235	3.27E-09
Th-231	2.96E-12
Pa-231	1.12E-08
Ac-227	2.43E-08
Th-227	7.72E-12
Ra-223	2.96E-11
Rn-219	0.00E+00
Po-215	3.19E-15
Pb-211	1.09E-12
Bi-211	8.33E-13
Tl-207	2.45E-13
Po-211	3.85E-16
Fr-223	5.94E-14
Th-232	1.39E-08
Ra-228	1.43E-08
Ac-228	2.38E-10
Th-228	4.30E-08
Ra-224	3.24E-09
Rn-220	4.83E-17
Po-216	6.90E-16
Pb-212	7.14E-12
Bi-212	7.87E-12
Po-212	0.00E+00
Tl-208	4.53E-11
TOTAL	3.38E-07

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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	160	495	750	2915	
N	6.6E-01	9.2E-02	4.9E-02	1.6E-02	
NNW	3.4E-01	5.3E-02	3.1E-02	1.5E-02	
NW	4.0E-01	6.0E-02	3.5E-02	1.5E-02	
WNW	4.9E-01	7.1E-02	3.9E-02	1.5E-02	
W	3.7E-01	5.6E-02	3.3E-02	1.5E-02	School
WSW	1.9E-01	3.4E-02	2.2E-02	1.4E-02	
SW	2.6E-01	4.2E-02	2.6E-02	1.4E-02	Residence
SSW	3.2E-01	5.0E-02	2.9E-02	1.5E-02	
S	2.8E-01	4.5E-02	2.8E-02	1.4E-02	
SSE	2.0E-01	3.5E-02	2.3E-02	1.4E-02	Business
SE	2.8E-01	4.6E-02	2.8E-02	1.4E-02	
ESE	4.8E-01	6.9E-02	3.9E-02	1.5E-02	
E	6.3E-01	8.6E-02	4.6E-02	1.6E-02	
ENE	5.2E-01	7.4E-02	4.0E-02	1.6E-02	
NE	3.2E-01	5.0E-02	3.0E-02	1.5E-02	Farm
NNE	2.7E-01	4.4E-02	2.7E-02	1.4E-02	

Mar 9, 2011 10:56 am **SUMMARY**
Page 6

INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	**160**	**495**	**750**	**2915**
N	3.4E-07	4.5E-08	2.3E-08	6.2E-09
NNW	1.7E-07	2.5E-08	1.4E-08	5.4E-09
NW	2.1E-07	2.9E-08	1.6E-08	5.5E-09
WNW	2.5E-07	3.4E-08	1.8E-08	5.7E-09
W	1.9E-07	2.7E-08	1.5E-08	5.4E-09
WSW	9.4E-08	1.5E-08	9.4E-09	4.9E-09
SW	1.3E-07	2.0E-08	1.1E-08	5.1E-09
SSW	1.6E-07	2.3E-08	1.3E-08	5.3E-09
S	1.4E-07	2.1E-08	1.2E-08	5.2E-09
SSE	9.9E-08	1.6E-08	9.8E-09	5.0E-09
SE	1.4E-07	2.1E-08	1.2E-08	5.2E-09
ESE	2.4E-07	3.4E-08	1.8E-08	5.7E-09
E	3.2E-07	4.2E-08	2.2E-08	6.0E-09
ENE	2.7E-07	3.6E-08	1.9E-08	5.8E-09
NE	1.6E-07	2.4E-08	1.3E-08	5.3E-09
NNE	1.4E-07	2.1E-08	1.2E-08	5.2E-09

CAP88 OUTPUT RESULTS

PSC METALS

DT-12

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment
Mar 10, 2011 09:35 am

Facility: DT-12 (BNSF)
Address: Dock St./N Wharf St.
City: St. Louis
State: MO **Zip:** 63147

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: DT12 2010
Dataset Date: 3/10/2011 9:34:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 10, 2011 09:35 am SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	5.76E-04
B Surfac	1.04E-01
Breasts	6.22E-04
St Wall	5.96E-04
ULI Wall	6.39E-04
Kidneys	2.21E-03
Lungs	3.12E-02
Ovaries	1.29E-03
R Marrow	5.47E-03
Spleen	6.02E-04
Thymus	5.91E-04
Uterus	5.88E-04
Bld Wall	6.03E-04
Brain	5.93E-04
Esophagu	1.09E-02
SI Wall	5.93E-04
LLI Wall	7.34E-04
Liver	4.96E-03
Muscle	6.33E-04
Pancreas	5.77E-04
Skin	4.95E-03
Testes	1.35E-03
Thyroid	6.09E-04
EFFEC	1.20E-01

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	7.17E-03
INHALATION	1.13E-01
AIR IMMERSION	6.94E-07
GROUND SURFACE	3.42E-04
INTERNAL	1.20E-01
EXTERNAL	3.43E-04
TOTAL	1.20E-01

Mar 10, 2011 09:35 am **SUMMARY**
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	6.24E-03
Th-234	1.43E-04
Pa-234m	3.39E-05
Pa-234	9.96E-07
U-234	7.58E-03
Th-230	3.32E-02
Ra-226	5.80E-03
Rn-222	1.10E-13
Po-218	5.75E-10
Pb-214	1.60E-05
Bi-214	9.58E-05
Po-214	5.26E-09
Pb-210	6.22E-06
Bi-210	1.81E-08
Po-210	5.21E-07
At-218	4.78E-11
U-235	3.87E-04
Th-231	4.12E-07
Pa-231	1.16E-02
Ac-227	9.00E-03
Th-227	9.91E-07
Ra-223	6.07E-06
Rn-219	0.00E+00
Po-215	5.86E-10
Pb-211	3.31E-07
Bi-211	1.53E-07
Tl-207	1.93E-07
Po-211	6.89E-11
Fr-223	1.04E-08
Th-232	1.17E-02
Ra-228	1.41E-02
Ac-228	1.85E-04
Th-228	1.87E-02
Ra-224	1.40E-03
Rn-220	3.36E-11
Po-216	5.03E-10
Pb-212	4.81E-06
Bi-212	7.00E-06
Po-212	0.00E+00
Tl-208	3.32E-05
TOTAL	1.20E-01

Mar 10, 2011 09:35 am **SUMMARY**
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	6.29E-11
Stomach	2.05E-10
Colon	7.35E-10
Liver	1.28E-09
LUNG	5.97E-08
Bone	1.69E-09
Skin	9.38E-12
Breast	1.20E-10
Ovary	2.26E-10
Bladder	1.44E-10
Kidneys	1.95E-10
Thyroid	1.52E-11
Leukemia	3.76E-10
Residual	8.27E-10
Total	6.56E-08
TOTAL	1.31E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	2.58E-09
INHALATION	6.28E-08
AIR IMMERSION	3.61E-13
GROUND SURFACE	1.69E-10
INTERNAL	6.54E-08
EXTERNAL	1.69E-10
TOTAL	6.56E-08

Mar 10, 2011 09:35 am **SUMMARY**
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	5.15E-09
Th-234	1.36E-10
Pa-234m	5.44E-12
Pa-234	5.43E-13
U-234	6.27E-09
Th-230	1.70E-08
Ra-226	4.44E-09
Rn-222	5.96E-20
Po-218	3.15E-16
Pb-214	8.52E-12
Bi-214	5.09E-11
Po-214	2.89E-15
Pb-210	2.06E-12
Bi-210	9.11E-15
Po-210	1.99E-13
At-218	2.27E-17
U-235	3.19E-10
Th-231	3.50E-13
Pa-231	1.09E-09
Ac-227	2.37E-09
Th-227	8.05E-13
Ra-223	3.30E-12
Rn-219	0.00E+00
Po-215	3.21E-16
Pb-211	1.10E-13
Bi-211	8.40E-14
Tl-207	2.47E-14
Po-211	3.77E-17
Fr-223	5.86E-15
Th-232	5.17E-09
Ra-228	6.28E-09
Ac-228	1.03E-10
Th-228	1.60E-08
Ra-224	1.20E-09
Rn-220	1.84E-17
Po-216	2.76E-16
Pb-212	2.81E-12
Bi-212	3.14E-12
Po-212	0.00E+00
Tl-208	1.81E-11
TOTAL	6.56E-08

Mar 10, 2011 09:35 am SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	340	695	1180	2895	
N	1.2E-01	3.5E-02	1.7E-02	7.6E-03	
NNW	6.4E-02	2.1E-02	1.1E-02	6.5E-03	
NW	7.5E-02	2.3E-02	1.2E-02	6.6E-03	Business
WNW	9.0E-02	2.7E-02	1.3E-02	7.0E-03	
W	6.9E-02	2.2E-02	1.1E-02	6.5E-03	Residence / School
WSW	3.6E-02	1.3E-02	8.1E-03	5.8E-03	
SW	4.9E-02	1.6E-02	9.3E-03	6.1E-03	
SSW	5.9E-02	1.9E-02	1.0E-02	6.3E-03	
S	5.2E-02	1.7E-02	9.8E-03	6.2E-03	
SSE	3.8E-02	1.4E-02	8.4E-03	5.9E-03	
SE	5.3E-02	1.8E-02	9.9E-03	6.2E-03	
ESE	8.8E-02	2.6E-02	1.3E-02	6.9E-03	
E	1.1E-01	3.3E-02	1.5E-02	7.4E-03	
ENE	9.5E-02	2.8E-02	1.4E-02	7.0E-03	
NE	5.9E-02	1.9E-02	1.0E-02	6.3E-03	Farm
NNE	5.1E-02	1.7E-02	9.6E-03	6.1E-03	

Mar 10, 2011 09:35 am **SUMMARY**
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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	**340**	**695**	**1180**	**2895**
N	6.6E-08	1.8E-08	8.1E-09	3.2E-09
NNW	3.4E-08	1.0E-08	5.1E-09	2.6E-09
NW	4.0E-08	1.2E-08	5.6E-09	2.7E-09
WNW	4.9E-08	1.4E-08	6.4E-09	2.9E-09
W	3.7E-08	1.1E-08	5.3E-09	2.6E-09
WSW	1.9E-08	6.2E-09	3.5E-09	2.2E-09
SW	2.6E-08	8.0E-09	4.2E-09	2.4E-09
SSW	3.2E-08	9.5E-09	4.7E-09	2.5E-09
S	2.8E-08	8.6E-09	4.4E-09	2.4E-09
SSE	2.0E-08	6.6E-09	3.7E-09	2.3E-09
SE	2.8E-08	8.8E-09	4.5E-09	2.4E-09
ESE	4.8E-08	1.4E-08	6.3E-09	2.8E-09
E	6.2E-08	1.7E-08	7.6E-09	3.1E-09
ENE	5.1E-08	1.5E-08	6.6E-09	2.9E-09
NE	3.2E-08	9.6E-09	4.8E-09	2.5E-09
NNE	2.7E-08	8.4E-09	4.3E-09	2.4E-09

APPENDIX B

ENVIRONMENTAL TLD, ALPHA TRACK AND PERIMETER AIR DATA
(On CD-ROM at the end of this document)

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Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121178	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Alpha	5.62E-15	6.21E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121178	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Beta	4.49E-14	2.02E-14	2.47E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121179	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Alpha	8.33E-15	7.39E-15	9.03E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121179	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Beta	4.11E-14	2.08E-14	2.61E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121180	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Alpha	-1.18E-15	2.62E-15	8.33E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121180	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.81E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121181	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	3.78E-15	6.78E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121181	6WH LOADOUT	01/04/10	Gross Alpha/Beta	Gross Beta	2.44E-14	1.51E-14	1.96E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121182	6WH LOADOUT	01/05/10	Gross Alpha/Beta	Gross Alpha	-1.49E-15	3.29E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121182	6WH LOADOUT	01/05/10	Gross Alpha/Beta	Gross Beta	6.19E-15	2.06E-14	3.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121183	6WH LOADOUT	01/05/10	Gross Alpha/Beta	Gross Alpha	-8.70E-17	4.06E-15	9.86E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121183	6WH LOADOUT	01/05/10	Gross Alpha/Beta	Gross Beta	-9.62E-16	1.87E-14	2.85E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121184	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Alpha	8.87E-15	7.21E-15	8.40E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121184	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Beta	5.28E-14	2.05E-14	2.47E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121185	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.14E-15	7.07E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121185	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Beta	6.43E-14	1.87E-14	2.08E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121186	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Alpha	1.73E-14	1.01E-14	9.35E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121186	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Beta	8.25E-14	2.45E-14	2.74E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121187	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Alpha	1.74E-14	9.73E-15	8.76E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121187	6WH LOADOUT	01/12/10	Gross Alpha/Beta	Gross Beta	7.89E-14	2.31E-14	2.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121188	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	5.39E-15	8.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121188	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Beta	6.25E-14	2.19E-14	2.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121189	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Alpha	5.67E-15	6.25E-15	8.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121189	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Beta	5.81E-14	2.14E-14	2.54E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121190	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Alpha	6.67E-15	6.51E-15	8.44E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121190	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Beta	5.46E-14	2.07E-14	2.48E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121191	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Alpha	4.81E-15	5.30E-15	7.33E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121191	6WH LOADOUT	01/13/10	Gross Alpha/Beta	Gross Beta	5.83E-14	1.88E-14	2.15E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121192	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Alpha	5.67E-15	5.54E-15	7.18E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121192	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Beta	5.08E-14	1.80E-14	2.11E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121193	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Alpha	4.46E-15	5.73E-15	8.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121193	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Beta	4.31E-14	2.01E-14	2.50E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121194	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.76E-15	9.35E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121194	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Beta	6.61E-14	2.34E-14	2.74E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121195	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Alpha	8.21E-15	7.26E-15	8.89E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121195	6WH LOADOUT	01/14/10	Gross Alpha/Beta	Gross Beta	6.60E-14	2.25E-14	2.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121196	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Alpha	3.19E-15	5.05E-15	8.18E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121196	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Beta	5.07E-14	1.99E-14	2.40E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121197	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Alpha	2.65E-15	4.19E-15	6.78E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121197	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Beta	4.09E-14	1.65E-14	1.99E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121198	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.22E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121198	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Beta	4.46E-14	2.44E-14	3.13E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121199	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	4.83E-15	9.85E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121199	6WH LOADOUT	01/18/10	Gross Alpha/Beta	Gross Beta	1.63E-14	2.05E-14	2.89E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121200	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Alpha	8.13E-15	7.19E-15	8.81E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121200	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Beta	3.53E-14	2.00E-14	2.59E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121201	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Alpha	5.93E-15	6.53E-15	9.02E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121201	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Beta	1.88E-14	1.91E-14	2.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121202	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Alpha	4.49E-15	4.95E-15	6.84E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121202	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Beta	1.85E-14	1.48E-14	2.01E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121203	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Alpha	4.28E-15	5.50E-15	8.18E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121203	6WH LOADOUT	01/19/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.79E-14	2.40E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121204	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	4.48E-15	7.24E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121204	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.55E-14	2.13E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121205	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	4.77E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121205	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Beta	3.29E-14	1.94E-14	2.51E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121206	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Alpha	-1.12E-15	2.48E-15	7.90E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121206	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Beta	1.44E-14	1.66E-14	2.32E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121207	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Alpha	-7.80E-17	3.62E-15	8.81E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121207	6WH LOADOUT	01/25/10	Gross Alpha/Beta	Gross Beta	2.92E-14	1.96E-14	2.59E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121208	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121208	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Beta	4.89E-14	2.04E-14	2.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121209	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	4.30E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121209	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Beta	4.21E-14	2.05E-14	2.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121210	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Alpha	8.75E-16	3.45E-15	7.05E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121210	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.50E-14	2.07E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121211	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Alpha	1.03E-15	4.06E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121211	6WH LOADOUT	01/26/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.81E-14	2.43E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121212	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Alpha	1.34E-14	8.53E-15	8.44E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121212	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Beta	5.68E-14	2.09E-14	2.48E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121213	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Alpha	-1.98E-15	1.20E-15	7.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121213	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Beta	3.40E-14	1.68E-14	2.12E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121214	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Alpha	4.50E-15	5.79E-15	8.60E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121214	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Beta	3.45E-14	1.96E-14	2.53E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121215	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Alpha	5.93E-15	6.53E-15	9.02E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121215	6WH LOADOUT	01/27/10	Gross Alpha/Beta	Gross Beta	3.31E-14	2.03E-14	2.65E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121216	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Alpha	2.02E-15	4.39E-15	7.86E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121216	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Beta	2.74E-14	1.76E-14	2.31E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121217	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Alpha	9.85E-16	3.89E-15	7.93E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121217	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.80E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121218	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Alpha	-7.20E-17	3.32E-15	8.07E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121218	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Beta	3.45E-14	1.85E-14	2.37E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121219	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Alpha	2.65E-15	4.19E-15	6.78E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121219	6WH LOADOUT	01/28/10	Gross Alpha/Beta	Gross Beta	1.00E-14	1.41E-14	1.99E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121220	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Alpha	5.70E-15	6.28E-15	8.68E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121220	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.90E-14	2.55E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121221	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Alpha	2.99E-15	4.74E-15	7.66E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121221	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Beta	4.01E-14	1.82E-14	2.25E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121222	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	4.30E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121222	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Beta	2.90E-14	1.95E-14	2.57E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121223	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Alpha	2.30E-15	4.98E-15	8.94E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121223	6WH LOADOUT	02/01/10	Gross Alpha/Beta	Gross Beta	3.51E-14	2.03E-14	2.62E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121224	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Alpha	3.30E-15	5.22E-15	8.44E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121224	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Beta	4.27E-14	1.99E-14	2.48E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121225	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.89E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121225	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Beta	3.06E-14	1.96E-14	2.57E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121226	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Alpha	2.17E-15	4.71E-15	8.44E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121226	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Beta	3.68E-14	1.94E-14	2.48E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121227	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Alpha	2.76E-15	4.37E-15	7.07E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121227	6WH LOADOUT	02/02/10	Gross Alpha/Beta	Gross Beta	4.51E-14	1.73E-14	2.08E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121228	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	4.62E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121228	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Beta	7.53E-14	2.19E-14	2.43E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121229	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Alpha	6.43E-15	5.68E-15	6.97E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121229	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Beta	6.45E-14	1.85E-14	2.05E-14	uCi/mL	=		SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121230	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Alpha	1.38E-14	8.77E-15	8.68E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121230	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Beta	7.66E-14	2.28E-14	2.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121231	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Alpha	1.85E-14	1.03E-14	9.30E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121231	6WH LOADOUT	02/03/10	Gross Alpha/Beta	Gross Beta	8.53E-14	2.46E-14	2.73E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121232	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.06E-15	8.60E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121232	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Beta	5.71E-14	2.12E-14	2.53E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121233	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Alpha	6.38E-15	5.64E-15	6.91E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121233	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Beta	7.25E-14	1.89E-14	2.03E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121234	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Alpha	5.84E-15	6.44E-15	8.89E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121234	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Beta	8.94E-14	2.40E-14	2.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121235	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Alpha	9.87E-15	8.02E-15	9.35E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121235	6WH LOADOUT	02/04/10	Gross Alpha/Beta	Gross Beta	7.84E-14	2.42E-14	2.74E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121236	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Alpha	9.29E-16	3.66E-15	7.48E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121236	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Beta	2.28E-14	1.65E-14	2.20E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121237	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Alpha	4.79E-15	6.16E-15	9.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121237	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Beta	3.11E-14	2.04E-14	2.69E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121238	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Alpha	4.59E-15	5.90E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121238	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Beta	2.14E-14	1.89E-14	2.57E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121239	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Alpha	-8.30E-17	3.85E-15	9.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121239	6WH LOADOUT	02/08/10	Gross Alpha/Beta	Gross Beta	3.26E-14	2.09E-14	2.74E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121240	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Alpha	4.59E-15	5.90E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121240	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Beta	9.10E-15	1.78E-14	2.57E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121241	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Alpha	-7.80E-17	3.61E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121241	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Beta	2.97E-15	1.73E-14	2.57E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121242	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Alpha	5.23E-15	5.76E-15	7.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121242	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Beta	1.66E-14	1.69E-14	2.34E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121243	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Alpha	-1.03E-15	2.28E-15	7.27E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121243	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.54E-14	2.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121244	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Alpha	-7.40E-17	3.44E-15	8.36E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121244	6WH LOADOUT	02/10/10	Gross Alpha/Beta	Gross Beta	2.55E-14	1.84E-14	2.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121245	6WH LOADOUT	02/11/10	Gross Alpha/Beta	Gross Alpha	9.44E-16	3.73E-15	7.60E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121245	6WH LOADOUT	02/11/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.64E-14	2.23E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121246	6WH LOADOUT	02/11/10	Gross Alpha/Beta	Gross Alpha	2.24E-15	4.87E-15	8.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121246	6WH LOADOUT	02/11/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.90E-14	2.56E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121247	6WH LOADOUT	02/11/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	5.06E-15	9.07E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121247	6WH LOADOUT	02/11/10	Gross Alpha/Beta	Gross Beta	2.53E-14	1.98E-14	2.66E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121248	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Alpha	-7.40E-17	3.43E-15	8.33E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121248	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Beta	2.32E-14	1.81E-14	2.45E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121249	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	5.07E-15	7.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121249	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Beta	2.76E-14	1.70E-14	2.21E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121250	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Alpha	1.13E-15	4.44E-15	9.07E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121250	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Beta	2.85E-14	2.00E-14	2.66E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121251	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.24E-15	8.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121251	6WH LOADOUT	02/16/10	Gross Alpha/Beta	Gross Beta	2.26E-14	1.87E-14	2.54E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121252	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Alpha	1.06E-15	4.18E-15	8.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121252	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.86E-14	2.50E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121253	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Alpha	-8.10E-17	3.75E-15	9.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121253	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Beta	3.10E-14	2.03E-14	2.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121254	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Alpha	-7.70E-17	3.59E-15	8.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121254	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.95E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121255	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Alpha	5.83E-15	5.70E-15	7.39E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121255	6WH LOADOUT	02/17/10	Gross Alpha/Beta	Gross Beta	2.50E-15	1.46E-14	2.17E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121256	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Alpha	6.63E-15	5.86E-15	7.18E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121256	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Beta	4.01E-14	1.72E-14	2.11E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121257	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Alpha	3.24E-15	5.12E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121257	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Beta	3.40E-14	1.89E-14	2.43E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121258	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Alpha	-7.60E-17	3.52E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121258	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Beta	3.14E-14	1.92E-14	2.51E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121259	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Alpha	3.34E-15	5.29E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121259	6WH LOADOUT	02/18/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.88E-14	2.51E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121260	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Alpha	8.80E-15	7.78E-15	9.54E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121260	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Beta	6.92E-14	2.40E-14	2.80E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121261	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Alpha	4.68E-15	6.01E-15	8.94E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121261	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Beta	7.10E-14	2.29E-14	2.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121262	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Alpha	4.61E-15	5.93E-15	8.81E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121262	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Beta	4.46E-14	2.07E-14	2.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121263	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Alpha	5.03E-15	5.55E-15	7.66E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121263	6WH LOADOUT	02/23/10	Gross Alpha/Beta	Gross Beta	5.83E-14	1.94E-14	2.25E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121264	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Alpha	5.36E-15	5.23E-15	6.78E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121264	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Beta	4.09E-14	1.65E-14	1.99E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121265	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Alpha	7.45E-15	6.58E-15	8.07E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121265	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Beta	5.29E-14	1.99E-14	2.37E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121266	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Alpha	-7.20E-17	3.32E-15	8.07E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121266	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.67E-14	2.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121267	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Alpha	5.30E-15	5.84E-15	8.07E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121267	6WH LOADOUT	02/24/10	Gross Alpha/Beta	Gross Beta	3.38E-14	1.85E-14	2.37E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121268	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Alpha	7.58E-15	6.70E-15	8.21E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121268	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Beta	3.66E-14	1.90E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121269	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Alpha	5.39E-15	5.95E-15	8.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121269	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Beta	4.23E-14	1.94E-14	2.41E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121270	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.00E-15	6.91E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121270	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Beta	4.47E-14	1.70E-14	2.03E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121271	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Alpha	6.49E-15	6.33E-15	8.21E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121271	6WH LOADOUT	02/25/10	Gross Alpha/Beta	Gross Beta	3.80E-14	1.91E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121272	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Alpha	-1.18E-15	2.60E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121272	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.80E-14	2.43E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121273	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Alpha	-9.89E-16	2.19E-15	6.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121273	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Beta	2.67E-14	1.58E-14	2.05E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121274	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Alpha	3.24E-15	5.12E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121274	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.73E-14	2.43E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121275	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	4.62E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121275	6WH LOADOUT	03/01/10	Gross Alpha/Beta	Gross Beta	2.60E-14	1.83E-14	2.43E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121276	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Alpha	1.06E-15	4.20E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121276	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.82E-14	2.51E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121277	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Alpha	1.06E-15	4.20E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121277	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Beta	7.39E-15	1.73E-14	2.51E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121278	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Alpha	8.92E-16	3.52E-15	7.18E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121278	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.51E-14	2.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121279	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Alpha	9.04E-15	7.35E-15	8.56E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121279	6WH LOADOUT	03/02/10	Gross Alpha/Beta	Gross Beta	3.73E-14	1.97E-14	2.51E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121283	6WH LOADOUT	03/03/10	Gross Alpha/Beta	Gross Alpha	3.21E-15	5.08E-15	8.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121283	6WH LOADOUT	03/03/10	Gross Alpha/Beta	Gross Beta	4.73E-14	1.98E-14	2.41E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121284	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Alpha	-7.40E-17	3.41E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121284	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Beta	3.91E-14	1.93E-14	2.43E-14	uCi/mL	=		SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121285	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Alpha	-6.20E-17	2.87E-15	6.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121285	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Beta	3.28E-14	1.62E-14	2.05E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121286	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Alpha	1.03E-15	4.06E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121286	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Beta	4.12E-14	1.95E-14	2.43E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121287	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Alpha	3.24E-15	5.12E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121287	6WH LOADOUT	03/04/10	Gross Alpha/Beta	Gross Beta	4.05E-14	1.94E-14	2.43E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121288	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121288	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Beta	2.51E-14	1.86E-14	2.49E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121289	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Alpha	1.03E-15	4.08E-15	8.33E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121289	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Beta	2.69E-14	1.84E-14	2.45E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121290	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Alpha	7.58E-15	6.17E-15	7.18E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121290	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Beta	3.89E-14	1.71E-14	2.11E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121291	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Alpha	6.76E-15	6.60E-15	8.56E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121291	6WH LOADOUT	03/08/10	Gross Alpha/Beta	Gross Beta	3.66E-14	1.97E-14	2.51E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121292	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Alpha	4.50E-15	5.79E-15	8.60E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121292	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.83E-14	2.53E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD121293	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Alpha	-6.60E-17	3.08E-15	7.48E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121293	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Beta	3.79E-14	1.76E-14	2.20E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121294	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Alpha	2.47E-15	5.35E-15	9.59E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121294	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Beta	1.67E-14	2.01E-14	2.82E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121295	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Alpha	2.30E-15	4.98E-15	8.94E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121295	6WH LOADOUT	03/10/10	Gross Alpha/Beta	Gross Beta	3.74E-14	2.05E-14	2.62E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121296	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.10E-15	8.36E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121296	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.77E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121297	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	4.30E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121297	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Beta	3.13E-14	1.96E-14	2.57E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121298	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Alpha	1.01E-15	3.97E-15	8.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121298	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Beta	9.83E-15	1.66E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121299	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Alpha	1.89E-15	4.10E-15	7.36E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121299	6WH LOADOUT	03/11/10	Gross Alpha/Beta	Gross Beta	4.42E-15	1.47E-14	2.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121306	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Alpha	1.68E-15	4.03E-15	7.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121306	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Beta	3.40E-14	1.87E-14	2.45E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121307	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Alpha	-4.65E-16	2.65E-15	7.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121307	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Beta	1.53E-15	1.60E-14	2.45E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126328	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Alpha	1.42E-15	3.39E-15	6.06E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126328	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.46E-14	2.06E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126329	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Alpha	3.83E-15	5.05E-15	7.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126329	6WH LOADOUT	03/15/10	Gross Alpha/Beta	Gross Beta	1.21E-14	1.69E-14	2.45E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126330	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.26E-15	7.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126330	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Beta	8.94E-15	1.73E-14	2.56E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126331	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	3.52E-15	6.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126331	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Beta	9.97E-15	1.47E-14	2.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126332	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Alpha	7.34E-15	6.53E-15	7.50E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126332	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Beta	1.41E-14	1.77E-14	2.56E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126333	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Alpha	2.87E-15	4.76E-15	7.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126333	6WH LOADOUT	03/16/10	Gross Alpha/Beta	Gross Beta	5.27E-15	1.70E-14	2.56E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126334	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Alpha	7.18E-15	6.38E-15	7.34E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126334	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Beta	3.75E-14	1.92E-14	2.50E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126335	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Alpha	1.71E-15	4.10E-15	7.34E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126335	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Beta	-1.32E-15	1.60E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126336	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Alpha	3.28E-15	4.32E-15	6.17E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126336	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Beta	2.97E-14	1.60E-14	2.10E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126337	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Alpha	1.71E-15	4.10E-15	7.34E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126337	6WH LOADOUT	03/17/10	Gross Alpha/Beta	Gross Beta	8.03E-15	1.69E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126338	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.20E-15	7.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126338	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Beta	2.73E-14	1.88E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126339	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Alpha	4.28E-15	4.79E-15	6.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126339	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Beta	3.40E-14	1.66E-14	2.14E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126340	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Alpha	1.85E-14	9.63E-15	7.50E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126340	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Beta	2.51E-14	1.86E-14	2.56E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126341	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Alpha	5.11E-15	5.71E-15	7.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126341	6WH LOADOUT	03/18/10	Gross Alpha/Beta	Gross Beta	3.39E-14	1.93E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126348	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	3.52E-15	6.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126348	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.54E-14	2.14E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126349	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Alpha	2.87E-15	4.76E-15	7.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126349	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Beta	2.81E-14	1.89E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126350	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.20E-15	7.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126350	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Beta	1.41E-14	1.77E-14	2.56E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126351	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Alpha	1.41E-14	8.53E-15	7.50E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126351	6WH LOADOUT	03/22/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.85E-14	2.56E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126352	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Alpha	2.99E-15	4.96E-15	7.83E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126352	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Beta	7.03E-15	1.79E-14	2.67E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126353	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Alpha	6.14E-15	6.05E-15	7.40E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126353	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Beta	2.26E-14	1.82E-14	2.52E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126354	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Alpha	8.50E-15	6.93E-15	7.54E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126354	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.87E-14	2.57E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126355	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Alpha	7.18E-15	5.86E-15	6.37E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126355	6WH LOADOUT	03/23/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.56E-14	2.17E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126356	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Alpha	3.65E-15	4.81E-15	6.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126356	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Beta	2.71E-14	1.74E-14	2.34E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126357	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Alpha	3.65E-15	4.81E-15	6.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126357	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Beta	1.56E-14	1.65E-14	2.34E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126358	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Alpha	4.68E-15	5.23E-15	6.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126358	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.72E-14	2.34E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126359	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Alpha	1.19E-14	7.54E-15	6.87E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126359	6WH LOADOUT	03/24/10	Gross Alpha/Beta	Gross Beta	1.09E-14	1.61E-14	2.34E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126360	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.72E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126360	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Beta	8.02E-15	1.55E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126361	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.72E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126361	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.60E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126362	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Alpha	1.57E-15	3.76E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126362	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Beta	7.36E-15	1.55E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126363	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.72E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126363	6WH LOADOUT	03/25/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.64E-14	2.29E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126364	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Alpha	7.48E-15	6.65E-15	7.64E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126364	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.89E-14	2.60E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126365	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Alpha	7.41E-15	6.59E-15	7.57E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126365	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Beta	2.02E-14	1.84E-14	2.58E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126366	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Alpha	2.48E-15	4.11E-15	6.49E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126366	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Beta	8.37E-15	1.50E-14	2.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126367	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Alpha	6.25E-16	3.50E-15	7.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126367	6WH LOADOUT	03/29/10	Gross Alpha/Beta	Gross Beta	6.65E-15	1.69E-14	2.52E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126368	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.72E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126368	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Beta	2.19E-14	1.67E-14	2.29E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126369	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Alpha	1.57E-15	3.76E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126369	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.62E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126370	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Alpha	1.57E-15	3.76E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126370	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Beta	7.36E-15	1.55E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126371	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	4.27E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126371	6WH LOADOUT	03/30/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.61E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126372	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.72E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126372	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Beta	2.52E-14	1.69E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126373	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	4.27E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126373	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Beta	3.05E-14	1.73E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126374	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Alpha	9.60E-15	6.81E-15	6.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126374	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Beta	2.72E-14	1.71E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126375	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Alpha	8.59E-15	6.51E-15	6.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126375	6WH LOADOUT	03/31/10	Gross Alpha/Beta	Gross Beta	2.12E-14	1.66E-14	2.29E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126376	6WH LOADOUT	04/01/10	Gross Alpha/Beta	Gross Alpha	1.26E-14	7.65E-15	6.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126376	6WH LOADOUT	04/01/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.60E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126377	6WH LOADOUT	04/01/10	Gross Alpha/Beta	Gross Alpha	5.59E-15	5.50E-15	6.73E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126377	6WH LOADOUT	04/01/10	Gross Alpha/Beta	Gross Beta	1.00E-14	1.57E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126380	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Alpha	1.70E-14	9.49E-15	7.83E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126380	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Beta	4.23E-14	2.07E-14	2.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126381	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Alpha	6.76E-15	6.01E-15	6.90E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126381	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.72E-14	2.35E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126382	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Alpha	4.74E-15	5.30E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126382	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.68E-14	2.37E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126383	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Alpha	2.67E-15	4.43E-15	6.99E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126383	6WH LOADOUT	04/05/10	Gross Alpha/Beta	Gross Beta	2.07E-14	1.71E-14	2.38E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126384	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Alpha	2.78E-15	4.61E-15	7.27E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126384	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Beta	1.01E-14	1.69E-14	2.48E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126385	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Alpha	1.73E-15	4.14E-15	7.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126385	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Beta	4.00E-14	1.96E-14	2.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126386	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Alpha	1.73E-15	4.14E-15	7.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126386	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.78E-14	2.52E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126387	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	5.18E-15	7.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126387	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.79E-14	2.52E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126388	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Alpha	6.69E-15	8.81E-15	1.26E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126388	6WH LOADOUT	04/06/10	Gross Alpha/Beta	Gross Beta	1.50E-14	2.90E-14	4.28E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126389	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Alpha	1.51E-14	9.16E-15	8.06E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126389	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.91E-14	2.74E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126390	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Alpha	-5.20E-16	2.96E-15	8.06E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126390	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.91E-14	2.74E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126391	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Alpha	6.81E-16	3.81E-15	8.06E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126391	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Beta	6.45E-15	1.83E-14	2.74E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126392	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.16E-15	8.06E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126392	6WH LOADOUT	04/07/10	Gross Alpha/Beta	Gross Beta	1.36E-14	1.89E-14	2.74E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126393	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Alpha	-4.35E-16	2.47E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126393	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Beta	1.00E-14	1.57E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126394	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Alpha	5.68E-15	5.60E-15	6.84E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126394	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Beta	1.55E-14	1.64E-14	2.33E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126395	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Alpha	3.64E-15	4.79E-15	6.84E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126395	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.69E-14	2.33E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126396	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Alpha	1.26E-14	7.65E-15	6.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126396	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.60E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126397	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	4.27E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126397	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Beta	6.71E-15	1.54E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126398	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.72E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126398	6WH LOADOUT	04/08/10	Gross Alpha/Beta	Gross Beta	-5.50E-16	1.48E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126399	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	7.38E-15	6.99E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126399	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Beta	2.75E-14	1.77E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126400	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.50E-15	7.11E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126400	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Beta	2.87E-14	1.80E-14	2.42E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126401	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Alpha	6.84E-15	6.08E-15	6.99E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126401	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.74E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126402	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Alpha	6.84E-15	6.08E-15	6.99E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126402	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Beta	2.89E-14	1.78E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126403	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	7.38E-15	6.99E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126403	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.82E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126404	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Alpha	8.02E-15	6.54E-15	7.11E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126404	6WH LOADOUT	04/12/10	Gross Alpha/Beta	Gross Beta	2.17E-14	1.75E-14	2.42E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126405	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Alpha	1.26E-14	7.65E-15	6.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126405	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Beta	3.77E-14	1.79E-14	2.29E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126406	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Alpha	7.69E-15	6.27E-15	6.82E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126406	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Beta	2.88E-14	1.74E-14	2.32E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126407	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Alpha	5.59E-15	5.50E-15	6.73E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126407	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Beta	2.78E-14	1.71E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126408	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Alpha	5.59E-15	5.50E-15	6.73E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126408	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Beta	2.52E-14	1.69E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126409	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Alpha	1.28E-14	7.78E-15	6.84E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126409	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Beta	3.10E-14	1.76E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126410	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Alpha	5.68E-15	5.60E-15	6.84E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126410	6WH LOADOUT	04/13/10	Gross Alpha/Beta	Gross Beta	2.69E-14	1.73E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126411	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	3.83E-15	6.84E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126411	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.72E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126412	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	3.83E-15	6.84E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126412	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Beta	3.90E-14	1.82E-14	2.33E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126413	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Alpha	5.68E-15	5.60E-15	6.84E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126413	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Beta	4.10E-14	1.84E-14	2.33E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126414	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Alpha	1.51E-14	8.40E-15	6.93E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126414	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.73E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126415	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Alpha	6.11E-15	6.02E-15	7.37E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126415	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Beta	2.25E-14	1.81E-14	2.51E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126416	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Alpha	7.31E-15	6.50E-15	7.47E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126416	6WH LOADOUT	04/14/10	Gross Alpha/Beta	Gross Beta	2.79E-14	1.88E-14	2.54E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126417	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	3.83E-15	6.84E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126417	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.71E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126418	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Alpha	9.76E-15	6.93E-15	6.84E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126418	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Beta	2.29E-14	1.70E-14	2.33E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126419	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Alpha	1.39E-14	8.08E-15	6.87E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126419	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.70E-14	2.34E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126420	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Alpha	1.18E-14	7.50E-15	6.84E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126420	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Beta	2.69E-14	1.73E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126421	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Alpha	8.67E-15	6.56E-15	6.79E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126421	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Beta	3.14E-14	1.75E-14	2.31E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126422	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	4.27E-15	6.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126422	6WH LOADOUT	04/15/10	Gross Alpha/Beta	Gross Beta	2.32E-14	1.68E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126423	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Alpha	5.44E-15	5.58E-15	7.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126423	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Beta	2.93E-14	1.70E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126424	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.77E-15	7.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126424	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Beta	1.25E-14	1.56E-14	2.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126425	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Alpha	2.08E-14	9.66E-15	7.08E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126425	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Beta	2.98E-14	1.87E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126426	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Alpha	5.45E-14	1.52E-14	7.08E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126426	6WH LOADOUT	04/19/10	Gross Alpha/Beta	Gross Beta	3.85E-14	1.94E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126427	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Alpha	9.72E-15	7.06E-15	7.32E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126427	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.61E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126428	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Alpha	9.72E-15	7.06E-15	7.32E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126428	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.69E-14	2.41E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126429	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Alpha	4.52E-15	5.30E-15	7.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126429	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Beta	2.65E-14	1.71E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126430	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Alpha	2.43E-15	4.41E-15	7.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126430	6WH LOADOUT	04/20/10	Gross Alpha/Beta	Gross Beta	2.65E-14	1.71E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126431	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.77E-15	7.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126431	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Beta	4.14E-14	1.79E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126432	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.77E-15	7.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126432	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Beta	2.66E-14	1.68E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126433	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.77E-15	7.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126433	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Beta	4.47E-14	1.82E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126434	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Alpha	1.47E-14	8.26E-15	7.08E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126434	6WH LOADOUT	04/21/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.88E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126435	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Alpha	5.44E-15	5.58E-15	7.16E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126435	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Beta	4.20E-14	1.80E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126436	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Alpha	6.46E-15	5.94E-15	7.16E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126436	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.75E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126437	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Alpha	4.44E-15	5.21E-15	7.19E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126437	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Beta	3.28E-14	1.73E-14	2.37E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126438	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Alpha	7.54E-15	6.33E-15	7.23E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126438	6WH LOADOUT	04/22/10	Gross Alpha/Beta	Gross Beta	3.23E-14	1.73E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126439	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Alpha	4.45E-15	5.12E-15	7.02E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126439	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Beta	4.28E-15	1.67E-14	2.39E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126440	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Alpha	4.45E-15	5.12E-15	7.02E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126440	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.82E-14	2.39E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126441	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Alpha	4.05E-16	3.13E-15	7.02E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126441	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.79E-14	2.39E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126442	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Alpha	5.49E-15	5.52E-15	7.05E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126442	6WH LOADOUT	04/26/10	Gross Alpha/Beta	Gross Beta	2.90E-14	1.86E-14	2.40E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126443	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Alpha	4.66E-15	5.36E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126443	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.82E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126444	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Alpha	2.54E-15	4.44E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126444	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Beta	8.66E-15	1.78E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126445	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Alpha	1.48E-15	3.90E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126445	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Beta	-3.88E-15	1.68E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126446	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Alpha	1.48E-15	3.90E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126446	6WH LOADOUT	04/27/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.81E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126447	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Alpha	4.58E-15	5.27E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126447	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Beta	2.29E-14	1.86E-14	2.46E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126448	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Alpha	5.63E-15	5.67E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126448	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.81E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126449	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Alpha	1.46E-15	3.84E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126449	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.79E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126450	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Alpha	3.54E-15	4.84E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126450	6WH LOADOUT	04/28/10	Gross Alpha/Beta	Gross Beta	1.13E-14	1.77E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126451	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Alpha	7.30E-15	6.05E-15	6.85E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126451	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Beta	6.77E-15	1.65E-14	2.33E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126452	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Alpha	7.36E-15	6.10E-15	6.90E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126452	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.75E-14	2.35E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126453	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Alpha	5.37E-15	5.41E-15	6.90E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126453	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.80E-14	2.35E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126454	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Alpha	5.33E-15	5.37E-15	6.85E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126454	6WH LOADOUT	04/29/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.75E-14	2.33E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126455	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Alpha	4.66E-15	5.36E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126455	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.91E-14	2.50E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126456	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Alpha	2.35E-14	1.01E-14	6.96E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126456	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Beta	3.85E-14	1.91E-14	2.37E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126457	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Alpha	4.66E-15	5.36E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126457	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.85E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126458	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Alpha	5.42E-15	5.46E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126458	6WH LOADOUT	05/03/10	Gross Alpha/Beta	Gross Beta	1.94E-14	1.77E-14	2.37E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126459	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	4.66E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126459	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.72E-14	2.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126460	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Alpha	4.41E-15	5.07E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126460	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.81E-14	2.37E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126461	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	7.07E-15	6.96E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126461	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.75E-14	2.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126462	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Alpha	6.42E-15	5.81E-15	6.96E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126462	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Beta	6.88E-15	1.68E-14	2.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126463	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Alpha	5.42E-15	5.46E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126463	6WH LOADOUT	05/04/10	Gross Alpha/Beta	Gross Beta	2.87E-14	1.84E-14	2.37E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126464	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Alpha	5.27E-16	1.39E-15	2.61E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126464	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Beta	1.05E-14	6.88E-15	8.88E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126465	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	7.25E-15	7.45E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126465	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Beta	3.70E-14	2.01E-14	2.54E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126466	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Alpha	9.14E-15	7.02E-15	7.55E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126466	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Beta	3.25E-14	2.01E-14	2.57E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126467	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.00E-15	7.65E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126467	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Beta	3.01E-14	2.01E-14	2.60E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126468	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Alpha	5.85E-15	5.89E-15	7.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126468	6WH LOADOUT	05/05/10	Gross Alpha/Beta	Gross Beta	3.74E-14	2.03E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126469	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Alpha	7.55E-15	6.25E-15	7.08E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126469	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Beta	6.33E-15	1.70E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126470	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Alpha	5.42E-15	5.46E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126470	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Beta	1.15E-14	1.71E-14	2.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126471	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Alpha	7.55E-15	6.25E-15	7.08E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126471	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Beta	9.68E-15	1.72E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126472	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Alpha	2.08E-14	9.66E-15	7.08E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126472	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.79E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126473	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Alpha	-1.61E-15	1.25E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126473	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Beta	4.90E-15	1.66E-14	2.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126474	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Alpha	1.43E-15	3.76E-15	7.08E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126474	6WH LOADOUT	05/06/10	Gross Alpha/Beta	Gross Beta	5.66E-15	1.69E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126475	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Alpha	3.60E-15	4.92E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126475	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Beta	5.18E-15	1.75E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126476	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Alpha	1.46E-15	3.84E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126476	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.79E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126477	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Alpha	4.58E-15	5.27E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126477	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.81E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126478	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Alpha	6.67E-15	6.04E-15	7.23E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126478	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.95E-14	2.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126479	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Alpha	2.50E-15	4.37E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126479	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.87E-14	2.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126480	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Alpha	5.63E-15	5.67E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126480	6WH LOADOUT	05/11/10	Gross Alpha/Beta	Gross Beta	9.89E-15	1.76E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126481	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Alpha	6.62E-15	7.61E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126481	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Beta	9.94E-14	3.14E-14	3.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126482	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Alpha	6.21E-15	6.25E-15	7.98E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126482	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Beta	6.69E-14	2.34E-14	2.72E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126483	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Alpha	7.71E-15	6.39E-15	7.23E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126483	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.80E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126484	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.19E-15	7.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126484	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.99E-14	2.64E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126485	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Alpha	5.36E-16	4.14E-15	9.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126485	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Beta	2.15E-14	2.33E-14	3.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126486	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	6.01E-15	9.95E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126486	6WH LOADOUT	05/10/10	Gross Alpha/Beta	Gross Beta	1.55E-14	2.44E-14	3.39E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126487	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Alpha	3.72E-15	5.08E-15	7.58E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126487	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Beta	1.04E-14	1.85E-14	2.58E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126488	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Alpha	4.40E-15	5.05E-15	6.93E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126488	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.71E-14	2.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126489	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Alpha	3.47E-15	4.74E-15	7.08E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126489	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.79E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126490	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Alpha	6.53E-15	5.91E-15	7.08E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126490	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Beta	-3.80E-16	1.64E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126491	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Alpha	4.49E-15	5.16E-15	7.08E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126491	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Beta	4.98E-15	1.69E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126492	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	4.28E-15	7.08E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126492	6WH LOADOUT	05/13/10	Gross Alpha/Beta	Gross Beta	1.50E-14	1.77E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126493	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Alpha	2.40E-14	2.23E-14	2.60E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126493	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Beta	3.40E-14	5.75E-14	8.67E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126494	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Alpha	4.74E-15	1.32E-14	2.35E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126494	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Beta	2.85E-14	5.17E-14	7.83E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126495	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Alpha	2.41E-15	4.40E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126495	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.57E-14	2.32E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126496	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Alpha	2.41E-15	4.40E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126496	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.60E-14	2.32E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126497	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	4.84E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126497	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Beta	1.04E-14	1.55E-14	2.32E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126498	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Alpha	1.41E-15	3.92E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126498	6WH LOADOUT	05/17/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.65E-14	2.32E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126499	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Alpha	4.01E-16	3.36E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126499	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Beta	2.96E-14	1.70E-14	2.32E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126500	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Alpha	8.43E-15	6.60E-15	6.96E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126500	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Beta	3.75E-14	1.77E-14	2.32E-14	uCi/mL	=		SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126501	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Alpha	5.42E-15	5.61E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126501	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.66E-14	2.32E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126502	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Alpha	2.41E-15	4.40E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126502	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Beta	2.82E-14	1.69E-14	2.32E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126503	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Alpha	2.52E-15	4.61E-15	7.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126503	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Beta	2.68E-14	1.75E-14	2.43E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126504	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Alpha	-5.65E-16	2.53E-15	6.53E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126504	6WH LOADOUT	05/18/10	Gross Alpha/Beta	Gross Beta	2.34E-14	1.57E-14	2.18E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126505	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Alpha	4.14E-15	4.91E-15	6.53E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126505	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Beta	6.68E-15	1.43E-14	2.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126506	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Alpha	5.70E-15	5.90E-15	7.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126506	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Beta	2.83E-14	1.77E-14	2.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126507	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	6.11E-15	7.14E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126507	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Beta	5.95E-15	1.55E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126508	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Alpha	4.17E-16	3.49E-15	7.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126508	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.62E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126509	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Alpha	1.48E-15	4.12E-15	7.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126509	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Beta	1.10E-14	1.63E-14	2.44E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126510	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Alpha	1.44E-15	4.02E-15	7.14E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126510	6WH LOADOUT	05/19/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.61E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126511	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	7.65E-15	7.14E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126511	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.61E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126512	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Alpha	8.64E-15	6.77E-15	7.14E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126512	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Beta	6.63E-15	1.55E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126513	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Alpha	2.47E-15	4.51E-15	7.14E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126513	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.62E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126514	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Alpha	8.64E-15	6.77E-15	7.14E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126514	6WH LOADOUT	05/24/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.65E-14	2.38E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126515	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Alpha	8.20E-15	6.94E-15	7.69E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126515	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Beta	2.10E-14	1.79E-14	2.56E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126516	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Alpha	3.82E-15	5.42E-15	7.79E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126516	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.74E-14	2.60E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126517	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Alpha	8.16E-15	6.91E-15	7.65E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126517	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Beta	2.67E-14	1.83E-14	2.55E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126518	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Alpha	8.16E-15	6.91E-15	7.65E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126518	6WH LOADOUT	05/25/10	Gross Alpha/Beta	Gross Beta	2.52E-14	1.82E-14	2.55E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126519	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	2.81E-15	2.83E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126519	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Beta	2.33E-14	7.76E-15	9.44E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126520	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Alpha	3.09E-15	2.62E-15	2.90E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126520	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Beta	2.03E-14	7.70E-15	9.67E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126521	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Alpha	4.30E-15	2.96E-15	2.87E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126521	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Beta	1.14E-14	6.96E-15	9.55E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126522	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Alpha	1.76E-15	2.09E-15	2.78E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126522	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Beta	1.10E-14	6.75E-15	9.27E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126523	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Alpha	2.60E-15	2.41E-15	2.81E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD126523	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Beta	1.86E-14	7.39E-15	9.38E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD126524	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Alpha	-2.87E-16	1.29E-15	3.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126524	6WH LOADOUT	05/26/10	Gross Alpha/Beta	Gross Beta	1.51E-15	7.08E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126525	6WH LOADOUT	05/27/10	Gross Alpha/Beta	Gross Alpha	6.42E-15	6.65E-15	8.25E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126525	6WH LOADOUT	05/27/10	Gross Alpha/Beta	Gross Beta	2.80E-14	1.97E-14	2.75E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD126526	6WH LOADOUT	05/27/10	Gross Alpha/Beta	Gross Alpha	4.23E-15	6.00E-15	8.63E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126526	6WH LOADOUT	05/27/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.98E-14	2.88E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD126527	6WH LOADOUT	05/27/10	Gross Alpha/Beta	Gross Alpha	-7.24E-16	3.25E-15	8.37E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD126527	6WH LOADOUT	05/27/10	Gross Alpha/Beta	Gross Beta	2.44E-14	1.96E-14	2.79E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132179	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Alpha	4.25E-15	7.30E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132179	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Beta	2.61E-14	1.39E-14	1.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132180	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Alpha	5.15E-15	7.30E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132180	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Beta	2.62E-14	1.34E-14	1.61E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132181	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Alpha	6.24E-15	7.62E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132181	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Beta	2.95E-14	1.37E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132182	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Alpha	7.61E-15	7.42E-15	1.03E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132182	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Beta	3.49E-14	1.31E-14	1.45E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132183	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Alpha	3.10E-15	6.93E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132183	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Beta	3.09E-14	1.44E-14	1.68E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132184	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Alpha	-3.79E-15	4.04E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132184	6WH LOADOUT	11/08/10	Gross Alpha/Beta	Gross Beta	3.23E-14	1.45E-14	1.68E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132185	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Alpha	4.19E-15	7.20E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132185	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Beta	2.78E-14	1.39E-14	1.66E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132186	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Alpha	1.80E-15	6.03E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132186	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Beta	3.49E-14	1.39E-14	1.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132187	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Alpha	3.77E-15	6.47E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132187	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Beta	3.23E-14	1.32E-14	1.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132188	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Alpha	3.29E-15	7.34E-15	1.27E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132188	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Beta	3.57E-14	1.55E-14	1.78E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132189	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Alpha	4.40E-15	7.56E-15	1.24E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132189	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Beta	3.99E-14	1.56E-14	1.74E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132190	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Alpha	3.37E-15	7.52E-15	1.30E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132190	6WH LOADOUT	11/09/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.43E-14	1.83E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132191	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Alpha	2.14E-15	7.16E-15	1.31E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132191	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Beta	3.23E-14	1.56E-14	1.84E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132192	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Alpha	7.80E-16	5.93E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132192	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Beta	2.60E-14	1.36E-14	1.63E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132193	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Alpha	5.37E-15	7.62E-15	1.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132193	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Beta	2.46E-14	1.37E-14	1.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132194	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Alpha	2.96E-15	6.61E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132194	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Beta	3.34E-14	1.41E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132195	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Alpha	4.61E-15	5.20E-15	6.96E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132195	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Beta	1.94E-14	1.73E-14	2.31E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132196	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Alpha	4.98E-15	4.95E-15	6.16E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132196	6WH LOADOUT	11/10/10	Gross Alpha/Beta	Gross Beta	1.36E-14	1.50E-14	2.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132197	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Alpha	7.49E-15	6.14E-15	6.79E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132197	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Beta	3.52E-14	1.81E-14	2.26E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132198	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.50E-15	7.53E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132198	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Beta	3.61E-14	1.98E-14	2.50E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132199	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Alpha	7.68E-15	6.30E-15	6.96E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132199	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Beta	2.00E-14	1.73E-14	2.31E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132200	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Alpha	5.80E-15	5.76E-15	7.17E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132200	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Beta	2.75E-14	1.84E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132201	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Alpha	1.67E-15	4.13E-15	7.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132201	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Beta	1.38E-14	1.82E-14	2.51E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132202	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Alpha	8.57E-15	7.03E-15	7.78E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132202	6WH LOADOUT	11/11/10	Gross Alpha/Beta	Gross Beta	4.70E-14	2.12E-14	2.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132203	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Alpha	8.34E-15	8.17E-15	1.08E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132203	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Beta	4.25E-14	1.46E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD132204	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Alpha	3.57E-15	6.52E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132204	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Beta	5.27E-14	1.53E-14	1.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132205	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Alpha	4.35E-15	6.37E-15	9.65E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132205	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Beta	4.00E-14	1.33E-14	1.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132206	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Alpha	7.08E-15	7.73E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132206	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Beta	4.40E-14	1.46E-14	1.65E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132207	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Alpha	4.53E-15	6.64E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132207	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Beta	3.90E-14	1.36E-14	1.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132208	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Alpha	3.47E-15	6.33E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132208	6WH LOADOUT	11/15/10	Gross Alpha/Beta	Gross Beta	3.54E-14	1.33E-14	1.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132209	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Alpha	1.37E-14	9.40E-15	1.04E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132209	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Beta	4.73E-14	1.48E-14	1.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132210	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	8.85E-15	1.08E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132210	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Beta	4.13E-14	1.46E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132211	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Alpha	9.75E-15	8.06E-15	9.85E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132211	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Beta	5.04E-14	1.45E-14	1.53E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132212	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Alpha	6.70E-15	7.32E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132212	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Beta	4.10E-14	1.38E-14	1.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132213	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Alpha	3.59E-15	6.54E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132213	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Beta	4.28E-14	1.44E-14	1.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132214	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Alpha	1.54E-14	1.00E-14	1.08E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132214	6WH LOADOUT	11/17/10	Gross Alpha/Beta	Gross Beta	4.41E-14	1.48E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132215	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Alpha	1.32E-14	9.54E-15	1.09E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132215	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Beta	6.29E-14	1.66E-14	1.69E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132216	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Alpha	1.47E-14	9.59E-15	1.04E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132216	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Beta	5.56E-14	1.54E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132217	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Alpha	8.96E-15	6.82E-15	7.17E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132217	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Beta	3.79E-14	1.91E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132218	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Alpha	1.60E-14	8.95E-15	7.49E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132218	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Beta	4.82E-14	2.06E-14	2.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132219	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Alpha	1.16E-14	7.39E-15	6.85E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132219	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Beta	4.14E-14	1.87E-14	2.28E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132220	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	7.41E-15	7.14E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132220	6WH LOADOUT	11/16/10	Gross Alpha/Beta	Gross Beta	5.48E-14	2.03E-14	2.37E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132221	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Alpha	8.56E-15	6.51E-15	6.85E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132221	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Beta	3.35E-14	1.81E-14	2.28E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132222	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Alpha	5.08E-15	5.04E-15	6.28E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132222	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Beta	3.56E-14	1.69E-14	2.09E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132223	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Alpha	1.45E-15	3.59E-15	6.58E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132223	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Beta	2.59E-14	1.69E-14	2.19E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132224	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	7.30E-15	7.33E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132224	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Beta	2.81E-14	1.88E-14	2.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132225	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Alpha	6.65E-15	5.95E-15	6.96E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132225	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Beta	3.61E-14	1.85E-14	2.31E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132226	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Alpha	6.97E-15	6.24E-15	7.30E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132226	6WH LOADOUT	11/18/10	Gross Alpha/Beta	Gross Beta	3.99E-14	1.96E-14	2.43E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132233	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Alpha	5.93E-15	5.89E-15	7.33E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132233	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Beta	2.81E-14	1.88E-14	2.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132234	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Alpha	6.79E-15	6.08E-15	7.11E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132234	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Beta	3.14E-14	1.85E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132235	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Alpha	7.84E-15	6.43E-15	7.11E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132235	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Beta	3.14E-14	1.85E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD132236	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Alpha	1.44E-14	8.41E-15	7.27E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132236	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.83E-14	2.42E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132237	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Alpha	3.82E-15	5.10E-15	7.43E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132237	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.80E-14	2.47E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132238	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Alpha	5.75E-15	5.71E-15	7.11E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132238	6WH LOADOUT	11/22/10	Gross Alpha/Beta	Gross Beta	2.87E-14	1.83E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132239	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.41E-15	7.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132239	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Beta	4.64E-14	1.96E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132240	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Alpha	7.10E-15	6.35E-15	7.43E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132240	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Beta	3.71E-14	1.97E-14	2.47E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132241	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Alpha	7.07E-15	6.32E-15	7.40E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132241	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.92E-14	2.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132242	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Alpha	5.47E-15	5.43E-15	6.76E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132242	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Beta	2.08E-14	1.69E-14	2.25E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132243	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Alpha	6.77E-15	6.05E-15	7.08E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132243	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Beta	3.74E-14	1.89E-14	2.35E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132244	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Alpha	3.66E-15	4.88E-15	7.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132244	6WH LOADOUT	11/23/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.75E-14	2.36E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132245	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Alpha	2.16E-16	5.99E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132245	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Beta	6.29E-14	1.77E-14	1.86E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132246	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Alpha	4.32E-15	7.87E-15	1.26E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132246	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Beta	4.82E-14	1.70E-14	1.95E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132247	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Alpha	4.10E-15	7.48E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132247	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Beta	5.98E-14	1.75E-14	1.86E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132248	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Alpha	7.23E-15	9.00E-15	1.30E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132248	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Beta	4.78E-14	1.73E-14	2.01E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132249	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Alpha	4.19E-15	7.64E-15	1.22E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132249	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Beta	3.01E-14	1.48E-14	1.89E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132250	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Alpha	6.53E-15	8.13E-15	1.17E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132250	6WH LOADOUT	11/29/10	Gross Alpha/Beta	Gross Beta	4.92E-14	1.62E-14	1.81E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132251	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Alpha	5.45E-15	6.79E-15	9.77E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132251	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Beta	4.11E-14	1.35E-14	1.51E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132252	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Alpha	6.84E-15	7.47E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132252	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Beta	3.32E-14	1.32E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132253	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	6.41E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132253	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Beta	4.45E-14	1.43E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132254	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Alpha	3.68E-15	6.72E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132254	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Beta	3.34E-14	1.37E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132255	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Alpha	4.85E-15	7.11E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132255	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Beta	4.46E-14	1.48E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132256	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.40E-15	1.03E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132256	6WH LOADOUT	11/30/10	Gross Alpha/Beta	Gross Beta	4.12E-14	1.40E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132257	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Alpha	-1.99E-15	3.97E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132257	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Beta	2.80E-14	1.25E-14	1.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132258	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	8.62E-15	1.05E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132258	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Beta	3.75E-14	1.39E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132259	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Alpha	5.54E-15	6.90E-15	9.93E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132259	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Beta	3.98E-14	1.36E-14	1.54E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132260	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Alpha	5.48E-15	6.82E-15	9.81E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132260	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Beta	4.70E-14	1.41E-14	1.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132261	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Alpha	1.90E-16	5.26E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132261	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Beta	4.23E-14	1.44E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD132262	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Alpha	8.52E-15	7.62E-15	9.65E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132262	6WH LOADOUT	12/01/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.16E-14	1.49E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132263	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Alpha	8.89E-15	7.34E-15	8.97E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132263	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Beta	3.66E-14	1.23E-14	1.39E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132264	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.44E-15	1.03E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132264	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Beta	4.74E-14	1.46E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132265	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	5.88E-15	9.42E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132265	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Beta	2.25E-14	1.13E-14	1.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132266	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	5.84E-15	9.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132266	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Beta	4.00E-14	1.36E-14	1.54E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132267	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.54E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132267	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Beta	2.96E-14	1.28E-14	1.58E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132268	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Alpha	5.63E-15	7.01E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132268	6WH LOADOUT	12/02/10	Gross Alpha/Beta	Gross Beta	3.46E-14	1.32E-14	1.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132276	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Alpha	9.33E-15	7.73E-15	8.93E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132276	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Beta	6.23E-14	2.09E-14	2.41E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132277	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Alpha	-6.03E-16	3.80E-15	8.58E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132277	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Beta	5.22E-14	1.96E-14	2.32E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132278	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Alpha	4.91E-15	6.34E-15	8.93E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132278	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Beta	3.48E-14	1.89E-14	2.41E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132279	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Alpha	2.51E-15	5.13E-15	8.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132279	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Beta	5.34E-14	1.92E-14	2.25E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132280	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Alpha	6.84E-15	6.79E-15	8.58E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132280	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Beta	4.32E-14	1.89E-14	2.32E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132281	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Alpha	4.43E-15	5.71E-15	8.05E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132281	6WH LOADOUT	12/06/10	Gross Alpha/Beta	Gross Beta	4.05E-14	1.78E-14	2.17E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132282	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Alpha	7.61E-15	6.85E-15	8.25E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132282	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Beta	7.83E-14	2.07E-14	2.23E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132283	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Alpha	1.64E-14	8.98E-15	8.05E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132283	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Beta	7.12E-14	1.99E-14	2.17E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132284	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Alpha	8.05E-15	7.24E-15	8.73E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132284	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Beta	6.30E-14	2.06E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132285	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	5.38E-15	8.08E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132285	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Beta	5.71E-14	1.90E-14	2.18E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132286	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.12E-15	8.69E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132286	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Beta	7.26E-14	2.12E-14	2.35E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132287	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Alpha	6.40E-15	6.35E-15	8.02E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132287	6WH LOADOUT	12/07/10	Gross Alpha/Beta	Gross Beta	7.67E-14	2.02E-14	2.17E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132288	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Alpha	2.16E-15	6.88E-15	1.22E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132288	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Beta	1.99E-14	2.36E-14	3.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132289	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Alpha	6.84E-16	6.46E-15	1.27E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132289	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Beta	1.35E-14	2.41E-14	3.44E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132290	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Alpha	3.62E-15	8.16E-15	1.22E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132290	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.33E-14	1.84E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132291	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Alpha	4.58E-15	1.03E-14	1.54E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132291	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.60E-14	2.33E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132292	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Alpha	1.81E-15	6.00E-15	9.42E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132292	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Beta	4.23E-14	1.32E-14	1.42E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132293	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Alpha	5.04E-15	7.29E-15	9.94E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132293	6WH LOADOUT	12/08/10	Gross Alpha/Beta	Gross Beta	4.47E-14	1.39E-14	1.50E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132294	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Alpha	5.23E-15	7.56E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132294	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Beta	7.36E-14	1.67E-14	1.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD132295	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Alpha	8.89E-15	8.11E-15	9.60E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132295	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Beta	6.37E-14	1.52E-14	1.45E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132296	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Alpha	1.06E-14	1.85E-14	2.63E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132296	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Beta	2.71E-14	2.75E-14	3.97E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132297	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Alpha	3.36E-15	7.57E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132297	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Beta	2.52E-14	1.33E-14	1.71E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132298	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Alpha	7.43E-14	8.60E-14	1.20E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132298	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Beta	1.48E-13	2.27E-13	3.27E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132299	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Alpha	7.21E-15	7.96E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132299	6WH LOADOUT	12/09/10	Gross Alpha/Beta	Gross Beta	7.05E-14	1.62E-14	1.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132300	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Alpha	8.77E-16	4.02E-15	8.41E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132300	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.74E-14	2.49E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132301	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Alpha	3.02E-14	3.01E-14	3.99E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132301	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Beta	6.81E-14	7.94E-14	1.18E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132302	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Alpha	1.55E-14	2.06E-14	3.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132302	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Beta	5.42E-15	5.80E-14	9.26E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132303	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Alpha	4.19E-15	5.55E-15	8.45E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132303	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Beta	4.47E-14	1.92E-14	2.50E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132304	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Alpha	4.35E-15	1.99E-14	4.17E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132304	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Beta	5.69E-14	8.17E-14	1.24E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132305	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Alpha	4.34E-14	3.58E-14	4.26E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132305	6WH LOADOUT	12/13/10	Gross Alpha/Beta	Gross Beta	7.28E-14	8.48E-14	1.26E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132306	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Alpha	8.70E-16	3.98E-15	8.33E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132306	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Beta	1.85E-14	1.70E-14	2.47E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132307	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Alpha	4.50E-15	5.08E-15	7.19E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132307	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Beta	9.20E-15	1.40E-14	2.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132308	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Alpha	9.08E-15	6.96E-15	7.91E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132308	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.58E-14	2.35E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132309	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Alpha	8.40E-16	3.84E-15	8.05E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132309	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.63E-14	2.39E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132310	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Alpha	8.08E-15	6.67E-15	7.95E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132310	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.76E-14	2.36E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132311	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	7.68E-15	8.37E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132311	6WH LOADOUT	12/14/10	Gross Alpha/Beta	Gross Beta	2.64E-14	1.77E-14	2.48E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132312	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Alpha	3.11E-15	5.14E-15	8.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132312	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Beta	2.40E-14	1.78E-14	2.53E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132313	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.23E-15	7.95E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132313	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Beta	1.15E-14	1.56E-14	2.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132314	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Alpha	-2.34E-15	4.94E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132314	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.17E-14	1.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132315	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Alpha	-1.26E-15	5.39E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132315	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.17E-14	1.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132316	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Alpha	2.08E-15	6.88E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132316	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Beta	1.12E-14	1.13E-14	1.63E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132317	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Alpha	6.94E-15	8.65E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132317	6WH LOADOUT	12/15/10	Gross Alpha/Beta	Gross Beta	1.88E-14	1.27E-14	1.71E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132318	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Alpha	1.06E-15	7.28E-15	1.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132318	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Beta	3.00E-14	1.46E-14	1.83E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132319	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Alpha	-2.75E-15	5.80E-15	1.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132319	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Beta	2.62E-14	1.42E-14	1.83E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132320	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Alpha	2.38E-15	7.87E-15	1.24E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132320	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Beta	2.83E-14	1.47E-14	1.87E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD132321	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Alpha	5.43E-15	7.85E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132321	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Beta	2.72E-14	1.30E-14	1.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132322	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Alpha	3.43E-15	7.75E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132322	6WH LOADOUT	12/16/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.29E-14	1.75E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132328	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Alpha	5.02E-15	8.77E-15	1.25E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132328	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Beta	5.29E-14	1.72E-14	1.89E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132329	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Alpha	8.94E-15	9.87E-15	1.25E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132329	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Beta	3.96E-14	1.59E-14	1.89E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132330	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	9.29E-15	1.07E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132330	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Beta	4.32E-14	1.45E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132331	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Alpha	8.72E-15	8.69E-15	1.06E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132331	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Beta	5.11E-14	1.52E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132332	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	9.76E-15	1.28E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132332	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Beta	6.72E-14	1.88E-14	1.93E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132333	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Alpha	1.20E-14	9.47E-15	1.06E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132333	6WH LOADOUT	12/20/10	Gross Alpha/Beta	Gross Beta	4.48E-14	1.46E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132334	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	9.45E-15	1.09E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132334	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Beta	6.31E-14	1.65E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132335	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Alpha	1.18E-14	9.92E-15	1.14E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132335	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Beta	5.76E-14	1.66E-14	1.72E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132336	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Alpha	9.24E-15	9.20E-15	1.12E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132336	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Beta	4.48E-14	1.52E-14	1.70E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132337	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Alpha	4.33E-15	7.56E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132337	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Beta	4.97E-14	1.52E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132338	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Alpha	1.50E-14	1.05E-14	1.11E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132338	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Beta	5.71E-14	1.62E-14	1.68E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132339	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	9.41E-15	1.11E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132339	6WH LOADOUT	12/21/10	Gross Alpha/Beta	Gross Beta	5.78E-14	1.63E-14	1.68E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132340	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Alpha	-1.76E-16	5.67E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132340	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Beta	2.75E-14	1.24E-14	1.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132341	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.80E-15	9.82E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132341	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Beta	3.61E-14	1.30E-14	1.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132342	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Alpha	5.45E-15	6.30E-15	8.79E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132342	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Beta	4.46E-14	1.92E-14	2.40E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132343	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.07E-15	8.03E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132343	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Beta	3.76E-14	1.73E-14	2.19E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132344	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Alpha	2.28E-15	5.13E-15	8.79E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132344	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Beta	2.95E-14	1.81E-14	2.40E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132345	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.04E-15	8.39E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132345	6WH LOADOUT	12/22/10	Gross Alpha/Beta	Gross Beta	2.88E-14	1.73E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132346	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Alpha	1.87E-16	4.44E-15	9.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132346	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Beta	2.11E-14	1.85E-14	2.55E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132347	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Alpha	4.81E-15	6.50E-15	9.62E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132347	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Beta	2.09E-14	1.89E-14	2.63E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132348	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Alpha	2.25E-15	5.04E-15	8.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132348	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Beta	1.00E-14	1.63E-14	2.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132349	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Alpha	1.78E-16	4.23E-15	8.90E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132349	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Beta	2.98E-14	1.83E-14	2.43E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132350	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Alpha	2.52E-15	5.67E-15	9.71E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132350	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.87E-14	2.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132351	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	5.82E-15	9.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132351	6WH LOADOUT	12/23/10	Gross Alpha/Beta	Gross Beta	1.07E-14	1.74E-14	2.52E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD132360	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Alpha	1.04E-15	7.40E-15	1.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132360	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.64E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132361	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Alpha	9.93E-16	7.04E-15	1.39E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132361	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Beta	1.13E-14	1.51E-14	2.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132362	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Alpha	-5.55E-16	6.09E-15	1.34E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132362	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.61E-14	2.21E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132363	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Alpha	-6.36E-16	6.98E-15	1.53E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132363	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Beta	7.31E-15	1.61E-14	2.53E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132364	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Alpha	4.25E-15	8.58E-15	1.43E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132364	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Beta	3.91E-15	1.46E-14	2.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132365	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Alpha	6.06E-15	9.46E-15	1.47E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132365	6WH LOADOUT	12/27/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.67E-14	2.44E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132366	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Alpha	3.15E-15	6.35E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132366	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Beta	2.94E-14	1.39E-14	1.75E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD132367	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Alpha	4.14E-15	6.46E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132367	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Beta	2.73E-14	1.31E-14	1.66E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD133626	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Alpha	2.93E-15	5.91E-15	9.85E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133626	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.16E-14	1.63E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD133627	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Alpha	1.95E-15	5.88E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133627	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Beta	2.66E-14	1.36E-14	1.75E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133628	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Alpha	2.87E-15	5.79E-15	9.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133628	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Beta	3.01E-14	1.30E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD133629	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Alpha	2.87E-15	5.79E-15	9.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133629	6WH LOADOUT	12/28/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.18E-14	1.60E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133630	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Alpha	3.74E-15	5.85E-15	9.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133630	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.14E-14	1.51E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133631	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Alpha	-3.78E-16	4.15E-15	9.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133631	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Beta	3.22E-14	1.27E-14	1.51E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD133632	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Alpha	4.10E-15	6.40E-15	9.98E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133632	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.26E-14	1.65E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133633	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Alpha	-3.95E-16	4.33E-15	9.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133633	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.12E-14	1.58E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD133634	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Alpha	2.08E-15	6.25E-15	1.12E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133634	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Beta	2.75E-14	1.44E-14	1.86E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133635	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Alpha	2.84E-15	5.72E-15	9.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133635	6WH LOADOUT	12/29/10	Gross Alpha/Beta	Gross Beta	2.98E-14	1.28E-14	1.58E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD133636	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Alpha	5.69E-15	7.39E-15	1.09E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133636	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.31E-14	1.80E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133637	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Alpha	8.60E-15	8.62E-15	1.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133637	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Beta	1.09E-14	1.27E-14	1.89E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133638	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Alpha	2.01E-15	6.04E-15	1.09E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133638	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Beta	2.29E-14	1.35E-14	1.80E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD133639	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Alpha	-4.38E-16	4.81E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133639	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Beta	9.34E-15	1.16E-14	1.75E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133640	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Alpha	3.36E-15	6.78E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD133640	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Beta	1.38E-14	1.29E-14	1.87E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD133641	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Alpha	7.93E-16	5.63E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121280	BNSF Railroad	03/03/10	Gross Alpha/Beta	Gross Alpha	1.02E-15	4.03E-15	8.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121280	BNSF Railroad	03/03/10	Gross Alpha/Beta	Gross Beta	5.17E-14	2.01E-14	2.41E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121281	BNSF Railroad	03/03/10	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.00E-15	6.91E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD121281	BNSF Railroad	03/03/10	Gross Alpha/Beta	Gross Beta	2.96E-14	1.59E-14	2.03E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD121282	BNSF Railroad	03/03/10	Gross Alpha/Beta	Gross Alpha	3.21E-15	5.08E-15	8.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121282	BNSF Railroad	03/03/10	Gross Alpha/Beta	Gross Beta	4.52E-14	1.96E-14	2.41E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD121320	BNSF Railroad	05/03/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	8.99E-15	1.34E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121320	BNSF Railroad	05/03/10	Gross Alpha/Beta	Gross Beta	1.96E-14	3.28E-14	4.57E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121321	BNSF Railroad	05/04/10	Gross Alpha/Beta	Gross Alpha	4.80E-15	8.37E-15	1.39E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121321	BNSF Railroad	05/04/10	Gross Alpha/Beta	Gross Beta	1.90E-14	3.38E-14	4.72E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121322	BNSF Railroad	05/05/10	Gross Alpha/Beta	Gross Alpha	9.66E-15	7.42E-15	7.98E-15	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121322	BNSF Railroad	05/05/10	Gross Alpha/Beta	Gross Beta	4.11E-15	1.89E-14	2.72E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121323	BNSF Railroad	05/06/10	Gross Alpha/Beta	Gross Alpha	4.88E-15	5.60E-15	7.69E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121323	BNSF Railroad	05/06/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.92E-14	2.62E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121324	BNSF Railroad	05/10/10	Gross Alpha/Beta	Gross Alpha	5.47E-15	6.29E-15	8.63E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121324	BNSF Railroad	05/10/10	Gross Alpha/Beta	Gross Beta	-4.63E-16	2.00E-14	2.94E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121325	BNSF Railroad	05/11/10	Gross Alpha/Beta	Gross Alpha	6.10E-15	6.14E-15	7.83E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121325	BNSF Railroad	05/11/10	Gross Alpha/Beta	Gross Beta	1.81E-14	1.96E-14	2.66E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121326	BNSF Railroad	05/13/10	Gross Alpha/Beta	Gross Alpha	4.80E-16	3.71E-15	8.33E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121326	BNSF Railroad	05/13/10	Gross Alpha/Beta	Gross Beta	6.66E-15	1.99E-14	2.84E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121327	BNSF Railroad	05/17/10	Gross Alpha/Beta	Gross Alpha	9.03E-16	7.57E-15	1.57E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121327	BNSF Railroad	05/17/10	Gross Alpha/Beta	Gross Beta	1.16E-14	3.38E-14	5.22E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121328	BNSF Railroad	05/18/10	Gross Alpha/Beta	Gross Alpha	4.08E-15	5.79E-15	8.33E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121328	BNSF Railroad	05/18/10	Gross Alpha/Beta	Gross Beta	2.27E-14	1.94E-14	2.78E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121329	BNSF Railroad	05/19/10	Gross Alpha/Beta	Gross Alpha	4.80E-16	4.03E-15	8.33E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121329	BNSF Railroad	05/19/10	Gross Alpha/Beta	Gross Beta	3.00E-15	1.77E-14	2.78E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121330	BNSF Railroad	05/24/10	Gross Alpha/Beta	Gross Alpha	2.48E-15	4.53E-15	7.17E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121330	BNSF Railroad	05/24/10	Gross Alpha/Beta	Gross Beta	5.30E-15	1.55E-14	2.39E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121331	BNSF Railroad	05/25/10	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.66E-15	8.95E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121331	BNSF Railroad	05/25/10	Gross Alpha/Beta	Gross Beta	4.07E-15	1.91E-14	2.98E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121332	BNSF Railroad	05/27/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	7.18E-15	1.14E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121332	BNSF Railroad	05/27/10	Gross Alpha/Beta	Gross Beta	1.70E-14	2.53E-14	3.78E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121333	BNSF Railroad	05/26/10	Gross Alpha/Beta	Gross Alpha	4.21E-15	1.18E-14	2.09E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121333	BNSF Railroad	05/26/10	Gross Alpha/Beta	Gross Beta	-4.35E-15	4.33E-14	6.96E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121334	BNSF Railroad	06/01/10	Gross Alpha/Beta	Gross Alpha	1.81E-16	3.34E-15	7.84E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121334	BNSF Railroad	06/01/10	Gross Alpha/Beta	Gross Beta	8.90E-15	1.66E-14	2.53E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121335	BNSF Railroad	06/02/10	Gross Alpha/Beta	Gross Alpha	2.30E-15	4.44E-15	7.67E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121335	BNSF Railroad	06/02/10	Gross Alpha/Beta	Gross Beta	8.01E-15	1.62E-14	2.48E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121336	BNSF Railroad	06/03/10	Gross Alpha/Beta	Gross Alpha	2.07E-16	3.84E-15	9.00E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121336	BNSF Railroad	06/03/10	Gross Alpha/Beta	Gross Beta	5.32E-15	1.86E-14	2.91E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121337	BNSF Railroad	03/17/10	Gross Alpha/Beta	Gross Alpha	3.54E-15	5.17E-15	7.82E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121337	BNSF Railroad	03/17/10	Gross Alpha/Beta	Gross Beta	5.06E-15	1.57E-14	2.51E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121338	BNSF Railroad	03/18/10	Gross Alpha/Beta	Gross Alpha	2.47E-15	7.58E-15	1.43E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121338	BNSF Railroad	03/18/10	Gross Alpha/Beta	Gross Beta	3.03E-14	3.06E-14	4.59E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121339	BNSF Railroad	03/18/10	Gross Alpha/Beta	Gross Alpha	-2.12E-15	1.85E-15	8.59E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121339	BNSF Railroad	03/18/10	Gross Alpha/Beta	Gross Beta	8.16E-16	1.68E-14	2.76E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121340	BNSF Railroad	03/18/10	Gross Alpha/Beta	Gross Alpha	2.52E-15	4.84E-15	8.07E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121340	BNSF Railroad	03/18/10	Gross Alpha/Beta	Gross Beta	8.93E-15	1.66E-14	2.59E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121341	BNSF Railroad	06/14/10	Gross Alpha/Beta	Gross Alpha	5.70E-15	6.99E-15	1.05E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121341	BNSF Railroad	06/14/10	Gross Alpha/Beta	Gross Beta	1.41E-14	2.63E-14	4.41E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121342	BNSF Railroad	06/15/10	Gross Alpha/Beta	Gross Alpha	9.47E-15	1.16E-14	1.74E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121342	BNSF Railroad	06/15/10	Gross Alpha/Beta	Gross Beta	2.49E-14	4.38E-14	7.33E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121343	BNSF Railroad	06/16/10	Gross Alpha/Beta	Gross Alpha	1.07E-15	3.69E-15	7.83E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121343	BNSF Railroad	06/16/10	Gross Alpha/Beta	Gross Beta	1.75E-14	2.01E-14	3.30E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121344	BNSF Railroad	06/17/10	Gross Alpha/Beta	Gross Alpha	0	1.13E-14	2.94E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121344	BNSF Railroad	06/17/10	Gross Alpha/Beta	Gross Beta	2.89E-14	7.30E-14	1.24E-13	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121345	BNSF Railroad	06/21/10	Gross Alpha/Beta	Gross Alpha	1.74E-15	4.78E-15	8.63E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121345	BNSF Railroad	06/21/10	Gross Alpha/Beta	Gross Beta	2.64E-15	1.81E-14	2.91E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121346	BNSF Railroad	06/22/10	Gross Alpha/Beta	Gross Alpha	1.74E-15	4.78E-15	8.63E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121346	BNSF Railroad	06/22/10	Gross Alpha/Beta	Gross Beta	1.83E-15	1.81E-14	2.91E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121347	BNSF Railroad	06/23/10	Gross Alpha/Beta	Gross Alpha	4.80E-16	3.94E-15	8.33E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121347	BNSF Railroad	06/23/10	Gross Alpha/Beta	Gross Beta	2.78E-14	1.97E-14	2.81E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121348	BNSF Railroad	06/24/10	Gross Alpha/Beta	Gross Alpha	4.19E-15	5.87E-15	8.54E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121348	BNSF Railroad	06/24/10	Gross Alpha/Beta	Gross Beta	5.05E-15	1.82E-14	2.88E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121349	BNSF Railroad	06/28/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	7.37E-15	1.25E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121349	BNSF Railroad	06/28/10	Gross Alpha/Beta	Gross Beta	2.08E-14	1.53E-14	2.04E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121350	BNSF Railroad	06/29/10	Gross Alpha/Beta	Gross Alpha	2.48E-15	6.45E-15	1.10E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121350	BNSF Railroad	06/29/10	Gross Alpha/Beta	Gross Beta	9.18E-15	1.23E-14	1.79E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121351	BNSF Railroad	06/30/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	5.64E-15	1.03E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121351	BNSF Railroad	06/30/10	Gross Alpha/Beta	Gross Beta	7.91E-15	1.15E-14	1.68E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121352	BNSF Railroad	07/01/10	Gross Alpha/Beta	Gross Alpha	1.22E-16	5.70E-15	1.13E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121352	BNSF Railroad	07/01/10	Gross Alpha/Beta	Gross Beta	1.18E-14	1.30E-14	1.85E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121353	BNSF Railroad	07/06/10	Gross Alpha/Beta	Gross Alpha	-1.13E-15	5.31E-15	1.17E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121353	BNSF Railroad	07/06/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.33E-14	1.90E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121354	BNSF Railroad	07/07/10	Gross Alpha/Beta	Gross Alpha	6.12E-15	7.78E-15	1.12E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121354	BNSF Railroad	07/07/10	Gross Alpha/Beta	Gross Beta	9.35E-15	1.26E-14	1.82E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121355	BNSF Railroad	07/08/10	Gross Alpha/Beta	Gross Alpha	1.40E-15	6.48E-15	1.19E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121355	BNSF Railroad	07/08/10	Gross Alpha/Beta	Gross Beta	1.23E-14	1.36E-14	1.93E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121356	BNSF Railroad	07/12/10	Gross Alpha/Beta	Gross Alpha	-4.44E-16	7.79E-15	1.60E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121356	BNSF Railroad	07/12/10	Gross Alpha/Beta	Gross Beta	4.52E-14	2.09E-14	2.56E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121357	BNSF Railroad	07/13/10	Gross Alpha/Beta	Gross Alpha	2.88E-15	6.13E-15	1.01E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121357	BNSF Railroad	07/13/10	Gross Alpha/Beta	Gross Beta	7.81E-15	1.09E-14	1.62E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121358	BNSF Railroad	07/14/10	Gross Alpha/Beta	Gross Alpha	2.04E-15	6.44E-15	1.13E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121358	BNSF Railroad	07/14/10	Gross Alpha/Beta	Gross Beta	1.03E-14	1.24E-14	1.82E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121359	BNSF Railroad	07/15/10	Gross Alpha/Beta	Gross Alpha	5.53E-15	9.11E-15	1.42E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121359	BNSF Railroad	07/15/10	Gross Alpha/Beta	Gross Beta	3.36E-14	1.79E-14	2.28E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121360	BNSF Railroad	07/27/10	Gross Alpha/Beta	Gross Alpha	4.74E-15	9.90E-15	1.37E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121360	BNSF Railroad	07/27/10	Gross Alpha/Beta	Gross Beta	2.12E-14	1.66E-14	2.28E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121361	BNSF Railroad	07/29/10	Gross Alpha/Beta	Gross Alpha	-2.66E-15	7.36E-15	1.37E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121361	BNSF Railroad	07/29/10	Gross Alpha/Beta	Gross Beta	5.02E-16	1.41E-14	2.28E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121362	BNSF Railroad	08/02/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	6.44E-15	1.02E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121362	BNSF Railroad	08/02/10	Gross Alpha/Beta	Gross Beta	3.27E-14	1.38E-14	1.63E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121363	BNSF Railroad	08/03/10	Gross Alpha/Beta	Gross Alpha	4.54E-15	7.91E-15	1.26E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121363	BNSF Railroad	08/03/10	Gross Alpha/Beta	Gross Beta	4.42E-14	1.74E-14	1.99E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121364	BNSF Railroad	08/04/10	Gross Alpha/Beta	Gross Alpha	7.45E-15	9.12E-15	1.32E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121364	BNSF Railroad	08/04/10	Gross Alpha/Beta	Gross Beta	2.32E-14	1.59E-14	2.09E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121365	BNSF Railroad	08/05/10	Gross Alpha/Beta	Gross Alpha	1.60E-14	1.05E-14	1.16E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121365	BNSF Railroad	08/05/10	Gross Alpha/Beta	Gross Beta	4.37E-14	1.63E-14	1.84E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121366	BNSF Railroad	08/09/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	7.12E-15	6.96E-15	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121366	BNSF Railroad	08/09/10	Gross Alpha/Beta	Gross Beta	4.10E-14	1.86E-14	2.29E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121367	BNSF Railroad	08/11/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	7.33E-15	7.17E-15	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121367	BNSF Railroad	08/11/10	Gross Alpha/Beta	Gross Beta	3.47E-14	1.86E-14	2.36E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121368	BNSF Railroad	08/12/10	Gross Alpha/Beta	Gross Alpha	6.59E-15	7.72E-15	1.04E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121368	BNSF Railroad	08/12/10	Gross Alpha/Beta	Gross Beta	2.19E-14	2.50E-14	3.44E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121369	BNSF Railroad	08/16/10	Gross Alpha/Beta	Gross Alpha	2.85E-15	6.14E-15	1.03E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121369	BNSF Railroad	08/16/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.25E-14	1.64E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121370	BNSF Railroad	08/17/10	Gross Alpha/Beta	Gross Alpha	3.78E-15	6.26E-15	9.96E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121370	BNSF Railroad	08/17/10	Gross Alpha/Beta	Gross Beta	3.47E-14	1.33E-14	1.58E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121371	BNSF Railroad	08/18/10	Gross Alpha/Beta	Gross Alpha	1.31E-14	9.32E-15	1.08E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121371	BNSF Railroad	08/18/10	Gross Alpha/Beta	Gross Beta	4.85E-14	1.55E-14	1.72E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121372	BNSF Railroad	08/19/10	Gross Alpha/Beta	Gross Alpha	8.13E-15	7.72E-15	1.03E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121372	BNSF Railroad	08/19/10	Gross Alpha/Beta	Gross Beta	5.26E-14	1.53E-14	1.63E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121373	BNSF Railroad	08/23/10	Gross Alpha/Beta	Gross Alpha	5.34E-15	5.74E-15	7.66E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121373	BNSF Railroad	08/23/10	Gross Alpha/Beta	Gross Beta	2.83E-14	1.75E-14	2.38E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121374	BNSF Railroad	08/24/10	Gross Alpha/Beta	Gross Alpha	4.20E-15	5.23E-15	7.49E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121374	BNSF Railroad	08/24/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.65E-14	2.33E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121375	BNSF Railroad	08/25/10	Gross Alpha/Beta	Gross Alpha	8.30E-15	6.65E-15	7.49E-15	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121375	BNSF Railroad	08/25/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.63E-14	2.33E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121376	BNSF Railroad	08/26/10	Gross Alpha/Beta	Gross Alpha	1.24E-15	4.24E-15	8.26E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121376	BNSF Railroad	08/26/10	Gross Alpha/Beta	Gross Beta	2.75E-14	1.86E-14	2.57E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121378	BNSF Railroad	08/31/10	Gross Alpha/Beta	Gross Alpha	-2.69E-15	3.25E-15	1.01E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121378	BNSF Railroad	08/31/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.50E-14	1.70E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121379	BNSF Railroad	08/30/10	Gross Alpha/Beta	Gross Alpha	1.27E-14	1.65E-14	2.42E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121379	BNSF Railroad	08/30/10	Gross Alpha/Beta	Gross Beta	2.46E-14	3.08E-14	4.10E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121380	BNSF Railroad	09/07/10	Gross Alpha/Beta	Gross Alpha	9.28E-15	1.01E-14	1.36E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121380	BNSF Railroad	09/07/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.54E-14	2.04E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121381	BNSF Railroad	09/08/10	Gross Alpha/Beta	Gross Alpha	1.38E-14	1.01E-14	1.15E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121381	BNSF Railroad	09/08/10	Gross Alpha/Beta	Gross Beta	2.10E-14	1.33E-14	1.73E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121382	BNSF Railroad	09/09/10	Gross Alpha/Beta	Gross Alpha	6.49E-15	9.29E-15	1.36E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121382	BNSF Railroad	09/09/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.55E-14	2.04E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121383	BNSF Railroad	09/13/10	Gross Alpha/Beta	Gross Alpha	1.91E-15	5.78E-15	1.07E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121383	BNSF Railroad	09/13/10	Gross Alpha/Beta	Gross Beta	2.21E-14	2.25E-14	3.35E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121384	BNSF Railroad	09/15/10	Gross Alpha/Beta	Gross Alpha	6.82E-15	6.42E-15	7.74E-15	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121384	BNSF Railroad	09/15/10	Gross Alpha/Beta	Gross Beta	4.89E-14	1.89E-14	2.42E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121385	BNSF Railroad	09/16/10	Gross Alpha/Beta	Gross Alpha	2.59E-15	4.96E-15	8.14E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121385	BNSF Railroad	09/16/10	Gross Alpha/Beta	Gross Beta	2.51E-14	1.78E-14	2.55E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121386	BNSF Railroad	09/20/10	Gross Alpha/Beta	Gross Alpha	1.08E-14	1.04E-14	1.24E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121386	BNSF Railroad	09/20/10	Gross Alpha/Beta	Gross Beta	6.04E-14	1.90E-14	1.95E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121387	BNSF Railroad	09/23/10	Gross Alpha/Beta	Gross Alpha	5.71E-15	9.03E-15	1.23E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121387	BNSF Railroad	09/23/10	Gross Alpha/Beta	Gross Beta	5.93E-14	1.88E-14	1.94E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121388	BNSF Railroad	09/27/10	Gross Alpha/Beta	Gross Alpha	4.64E-15	6.86E-15	1.04E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121388	BNSF Railroad	09/27/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.27E-14	1.66E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121389	BNSF Railroad	09/28/10	Gross Alpha/Beta	Gross Alpha	4.99E-15	7.37E-15	1.11E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121389	BNSF Railroad	09/28/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.31E-14	1.78E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121390	BNSF Railroad	09/30/10	Gross Alpha/Beta	Gross Alpha	8.85E-15	8.62E-15	1.11E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121390	BNSF Railroad	09/30/10	Gross Alpha/Beta	Gross Beta	3.17E-14	1.44E-14	1.78E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121391	BNSF Railroad	10/04/10	Gross Alpha/Beta	Gross Alpha	2.06E-14	2.72E-14	3.83E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121391	BNSF Railroad	10/04/10	Gross Alpha/Beta	Gross Beta	6.34E-14	4.22E-14	5.94E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121392	BNSF Railroad	10/05/10	Gross Alpha/Beta	Gross Alpha	8.37E-15	8.67E-15	1.13E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121392	BNSF Railroad	10/05/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.38E-14	1.76E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121393	BNSF Railroad	10/06/10	Gross Alpha/Beta	Gross Alpha	7.50E-15	8.68E-15	1.18E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121393	BNSF Railroad	10/06/10	Gross Alpha/Beta	Gross Beta	2.62E-14	1.37E-14	1.82E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121394	BNSF Railroad	10/11/10	Gross Alpha/Beta	Gross Alpha	1.24E-14	9.77E-15	1.16E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121394	BNSF Railroad	10/11/10	Gross Alpha/Beta	Gross Beta	5.29E-14	1.84E-14	1.91E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121395	BNSF Railroad	10/12/10	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.97E-15	1.11E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121395	BNSF Railroad	10/12/10	Gross Alpha/Beta	Gross Beta	5.94E-14	1.82E-14	1.82E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121396	BNSF Railroad	10/13/10	Gross Alpha/Beta	Gross Alpha	1.87E-15	6.00E-15	1.09E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121396	BNSF Railroad	10/13/10	Gross Alpha/Beta	Gross Beta	-1.70E-16	1.22E-14	1.79E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121397	BNSF Railroad	10/14/10	Gross Alpha/Beta	Gross Alpha	-5.90E-16	5.10E-15	1.13E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121397	BNSF Railroad	10/14/10	Gross Alpha/Beta	Gross Beta	2.71E-14	1.56E-14	1.85E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121398	BNSF Railroad	09/29/10	Gross Alpha/Beta	Gross Alpha	2.30E-14	1.24E-14	1.04E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD121398	BNSF Railroad	09/29/10	Gross Alpha/Beta	Gross Beta	9.79E-14	3.07E-14	3.38E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121399	BNSF Railroad	10/18/10	Gross Alpha/Beta	Gross Alpha	5.31E-15	6.06E-15	8.49E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121399	BNSF Railroad	10/18/10	Gross Alpha/Beta	Gross Beta	7.34E-14	2.46E-14	2.75E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121400	BNSF Railroad	10/19/10	Gross Alpha/Beta	Gross Alpha	4.10E-15	5.54E-15	8.49E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121400	BNSF Railroad	10/19/10	Gross Alpha/Beta	Gross Beta	1.57E-14	2.06E-14	2.75E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121401	BNSF Railroad	10/20/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.03E-15	8.37E-15	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121401	BNSF Railroad	10/20/10	Gross Alpha/Beta	Gross Beta	3.40E-14	2.16E-14	2.71E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121402	BNSF Railroad	10/21/10	Gross Alpha/Beta	Gross Alpha	4.87E-15	5.55E-15	7.79E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121402	BNSF Railroad	10/21/10	Gross Alpha/Beta	Gross Beta	1.01E-14	1.85E-14	2.52E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121403	BNSF Railroad	10/25/10	Gross Alpha/Beta	Gross Alpha	8.12E-15	8.89E-15	1.23E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121403	BNSF Railroad	10/25/10	Gross Alpha/Beta	Gross Beta	3.48E-14	1.68E-14	2.05E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121404	BNSF Railroad	10/26/10	Gross Alpha/Beta	Gross Alpha	8.76E-16	5.09E-15	9.97E-15	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121404	BNSF Railroad	10/26/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.22E-14	1.67E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121405	BNSF Railroad	10/27/10	Gross Alpha/Beta	Gross Alpha	3.89E-15	7.43E-15	1.23E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121405	BNSF Railroad	10/27/10	Gross Alpha/Beta	Gross Beta	3.55E-15	1.33E-14	2.05E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121406	BNSF Railroad	10/28/10	Gross Alpha/Beta	Gross Alpha	-2.78E-15	3.49E-15	1.09E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121406	BNSF Railroad	10/28/10	Gross Alpha/Beta	Gross Beta	1.06E-14	1.27E-14	1.82E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121407	BNSF Railroad	11/01/10	Gross Alpha/Beta	Gross Alpha	8.45E-15	8.23E-15	1.00E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121407	BNSF Railroad	11/01/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.21E-14	1.79E-14	uCi/mL	U	T04, T05	Downtown VP (General Area) Perimeter Air
SLD121408	BNSF Railroad	11/02/10	Gross Alpha/Beta	Gross Alpha	7.76E-15	9.60E-15	1.28E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121408	BNSF Railroad	11/02/10	Gross Alpha/Beta	Gross Beta	3.22E-14	1.70E-14	2.29E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121409	BNSF Railroad	11/03/10	Gross Alpha/Beta	Gross Alpha	7.10E-15	8.79E-15	1.17E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD121409	BNSF Railroad	11/03/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.62E-14	2.09E-14	uCi/mL	=		Downtown VP (General Area) Perimeter Air
SLD121410	BNSF Railroad	11/04/10	Gross Alpha/Beta	Gross Alpha	1.42E-14	1.16E-14	1.31E-14	uCi/mL	J	T04	Downtown VP (General Area) Perimeter Air
SLD121410	BNSF Railroad	11/04/10	Gross Alpha/Beta	Gross Beta	4.95E-15	1.41E-14	2.34E-14	uCi/mL	UJ	T06	Downtown VP (General Area) Perimeter Air
SLD127941	Plant 6WH	05/27/10	Gross Alpha/Beta	Gross Alpha	6.42E-15	6.65E-15	8.25E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127941	Plant 6WH	05/27/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.83E-14	2.75E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127942	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	7.51E-15	8.05E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127942	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Beta	3.77E-14	1.94E-14	2.60E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127943	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Alpha	3.61E-15	5.28E-15	8.24E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127943	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.81E-14	2.66E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127944	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Alpha	7.09E-15	6.66E-15	8.32E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127944	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Beta	2.76E-14	1.91E-14	2.69E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127945	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Alpha	6.14E-15	6.46E-15	8.60E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127945	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.95E-14	2.78E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127946	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Alpha	4.96E-16	9.17E-15	2.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127946	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Beta	-6.84E-15	4.28E-14	6.95E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127947	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Alpha	3.16E-15	9.96E-15	1.96E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127947	Plant 6WH	06/01/10	Gross Alpha/Beta	Gross Beta	-2.05E-14	3.76E-14	6.33E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127948	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Alpha	-1.12E-14	7.48E-15	4.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127948	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Beta	-3.41E-14	8.58E-14	1.43E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127949	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Alpha	1.04E-15	1.93E-14	4.52E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127949	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Beta	-7.19E-14	8.45E-14	1.46E-13	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127950	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Alpha	-1.04E-15	2.92E-15	9.00E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127950	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Beta	2.04E-15	1.83E-14	2.91E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127951	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Alpha	2.03E-16	3.76E-15	8.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127951	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.89E-14	2.85E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127952	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Alpha	1.56E-15	4.92E-15	9.69E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127952	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Beta	7.49E-15	2.02E-14	3.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127953	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Alpha	-9.54E-16	2.69E-15	8.28E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127953	Plant 6WH	06/02/10	Gross Alpha/Beta	Gross Beta	-4.14E-15	1.63E-14	2.68E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127954	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Alpha	3.66E-15	5.36E-15	8.36E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD127954	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Beta	2.77E-14	1.92E-14	2.70E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127955	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Alpha	1.41E-15	4.44E-15	8.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127955	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Beta	2.42E-14	1.97E-14	2.82E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127956	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.36E-15	7.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127956	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.78E-14	2.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127957	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Alpha	-1.84E-15	1.23E-15	7.26E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127957	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Beta	9.56E-15	1.55E-14	2.35E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127958	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Alpha	1.83E-16	3.39E-15	7.94E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127958	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Beta	2.56E-14	1.82E-14	2.57E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127959	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.36E-15	7.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127959	Plant 6WH	06/03/10	Gross Alpha/Beta	Gross Beta	9.93E-15	1.61E-14	2.44E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127960	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Alpha	5.25E-15	5.52E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127960	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Beta	1.44E-14	1.61E-14	2.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127961	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Alpha	4.46E-15	5.40E-15	7.74E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127961	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Beta	2.00E-14	1.73E-14	2.50E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127962	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Alpha	6.96E-15	6.53E-15	8.17E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127962	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.75E-14	2.64E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127963	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Alpha	4.84E-15	5.86E-15	8.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127963	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.82E-14	2.71E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127964	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Alpha	7.16E-15	6.12E-15	7.23E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127964	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Beta	2.40E-14	1.66E-14	2.34E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127965	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Alpha	3.77E-15	5.52E-15	8.60E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127965	Plant 6WH	06/07/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.86E-14	2.78E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127966	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Alpha	6.19E-15	7.51E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127966	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Beta	1.12E-14	2.27E-14	3.48E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127967	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Alpha	5.46E-15	6.62E-15	9.48E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127967	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Beta	3.23E-14	2.18E-14	3.06E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127968	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Alpha	4.74E-15	6.94E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127968	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Beta	2.51E-14	2.40E-14	3.50E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127969	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Alpha	6.35E-15	7.70E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127969	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Beta	4.56E-14	2.60E-14	3.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127970	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Alpha	6.85E-15	7.20E-15	9.59E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127970	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Beta	2.22E-14	2.12E-14	3.10E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127971	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Alpha	3.00E-15	5.80E-15	1.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127971	Plant 6WH	06/08/10	Gross Alpha/Beta	Gross Beta	1.59E-14	2.16E-14	3.24E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127972	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Alpha	3.42E-15	5.00E-15	7.80E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127972	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.71E-14	2.52E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127973	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Alpha	3.26E-15	4.77E-15	7.44E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127973	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Beta	8.45E-15	1.58E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127974	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Alpha	-9.12E-16	3.00E-15	8.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127974	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.82E-14	2.73E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127975	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Alpha	2.72E-15	5.23E-15	8.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127975	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.99E-14	2.80E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127976	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Alpha	2.36E-15	4.52E-15	7.55E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127976	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Beta	2.85E-14	1.72E-14	2.43E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127977	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Alpha	2.66E-15	5.10E-15	8.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127977	Plant 6WH	06/09/10	Gross Alpha/Beta	Gross Beta	8.63E-15	1.74E-14	2.73E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127978	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Alpha	2.81E-15	5.39E-15	8.99E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127978	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Beta	3.97E-14	2.10E-14	2.89E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127979	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Alpha	2.72E-15	5.23E-15	8.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127979	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Beta	6.01E-14	2.20E-14	2.80E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD127980	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Alpha	4.69E-15	6.87E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD127980	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Beta	2.87E-14	2.28E-14	3.33E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127981	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	9.12E-15	1.00E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127981	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Beta	3.87E-14	2.29E-14	3.22E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127982	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Alpha	6.82E-15	7.19E-15	9.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127982	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Beta	3.60E-14	2.13E-14	3.00E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127983	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.27E-15	9.08E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127983	Plant 6WH	06/10/10	Gross Alpha/Beta	Gross Beta	3.68E-14	2.09E-14	2.92E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127984	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Alpha	2.53E-15	4.57E-15	7.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127984	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Beta	-4.69E-15	1.47E-14	2.47E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127985	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Alpha	4.41E-16	3.62E-15	7.65E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127985	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Beta	1.32E-14	1.70E-14	2.58E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127986	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Alpha	7.58E-15	6.38E-15	7.11E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD127986	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Beta	2.85E-15	1.50E-14	2.40E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127987	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Alpha	5.21E-15	6.12E-15	8.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127987	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.87E-14	2.77E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127988	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Alpha	4.12E-15	5.79E-15	8.41E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127988	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.85E-14	2.84E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127989	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Alpha	2.51E-15	4.53E-15	7.26E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127989	Plant 6WH	06/14/10	Gross Alpha/Beta	Gross Beta	4.98E-15	1.55E-14	2.45E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127990	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Alpha	2.66E-15	4.80E-15	7.69E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127990	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Beta	8.18E-15	1.67E-14	2.59E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127991	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Alpha	6.79E-15	6.97E-15	8.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127991	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Beta	1.09E-14	1.90E-14	2.94E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127992	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Alpha	3.03E-15	5.47E-15	8.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127992	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Beta	1.35E-14	1.94E-14	2.96E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127993	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Alpha	5.59E-15	6.57E-15	8.81E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127993	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Beta	2.52E-14	2.04E-14	2.97E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127994	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Alpha	2.79E-15	5.03E-15	8.05E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127994	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Beta	-6.69E-15	1.61E-14	2.72E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127995	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Alpha	4.47E-16	3.67E-15	7.76E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127995	Plant 6WH	06/15/10	Gross Alpha/Beta	Gross Beta	-2.77E-15	1.58E-14	2.62E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127996	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Alpha	1.48E-15	4.07E-15	7.35E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127996	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.65E-14	2.48E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127997	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Alpha	-6.77E-16	2.93E-15	7.83E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127997	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Beta	3.88E-15	1.66E-14	2.64E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127998	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Alpha	2.14E-15	4.28E-15	7.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127998	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Beta	2.11E-14	2.05E-14	3.31E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD127999	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Alpha	6.10E-15	6.45E-15	8.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD127999	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Beta	1.68E-14	2.28E-14	3.77E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128000	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Alpha	6.22E-15	6.58E-15	9.15E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128000	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Beta	1.31E-14	2.30E-14	3.85E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128001	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Alpha	3.69E-15	5.51E-15	9.06E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128001	Plant 6WH	06/16/10	Gross Alpha/Beta	Gross Beta	1.86E-14	2.32E-14	3.81E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128002	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Alpha	7.86E-15	8.32E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128002	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Beta	1.14E-14	2.87E-14	4.87E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128003	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	6.46E-15	1.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128003	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Beta	2.34E-14	3.03E-14	5.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128004	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Alpha	1.35E-15	4.69E-15	9.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128004	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Beta	1.87E-14	2.54E-14	4.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128005	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Alpha	1.58E-15	5.48E-15	1.17E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128005	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Beta	1.67E-14	2.93E-14	4.90E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128006	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Alpha	4.28E-15	6.38E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD128006	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Beta	1.03E-14	2.60E-14	4.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128007	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Alpha	9.59E-15	8.22E-15	1.01E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128007	Plant 6WH	06/17/10	Gross Alpha/Beta	Gross Beta	3.24E-14	2.66E-14	4.24E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128008	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Alpha	3.07E-15	4.58E-15	7.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128008	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.97E-14	3.15E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128009	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Alpha	2.24E-15	4.47E-15	8.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128009	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Beta	2.87E-14	2.18E-14	3.44E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128010	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Alpha	4.85E-15	5.94E-15	8.93E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128010	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Beta	2.47E-14	2.32E-14	3.74E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128011	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Alpha	3.53E-15	5.27E-15	8.67E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128011	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Beta	3.87E-14	2.35E-14	3.63E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128012	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Alpha	3.50E-15	5.22E-15	8.58E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128012	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Beta	3.37E-14	2.30E-14	3.59E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128013	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Alpha	4.15E-15	5.08E-15	7.63E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128013	Plant 6WH	06/21/10	Gross Alpha/Beta	Gross Beta	3.34E-14	2.06E-14	3.20E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128014	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Alpha	7.45E-15	6.39E-15	7.83E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128014	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Beta	3.50E-14	2.12E-14	3.28E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128015	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Alpha	2.08E-15	4.15E-15	7.63E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128015	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Beta	1.50E-14	1.94E-14	3.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128016	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Alpha	2.21E-15	4.41E-15	8.12E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128016	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Beta	0	1.95E-14	3.40E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128017	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Alpha	4.64E-15	5.69E-15	8.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128017	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Beta	-8.40E-15	1.98E-14	3.58E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128018	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Alpha	4.71E-15	5.77E-15	8.67E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128018	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Beta	1.47E-14	2.18E-14	3.63E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128019	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Alpha	4.03E-15	4.94E-15	7.41E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128019	Plant 6WH	06/22/10	Gross Alpha/Beta	Gross Beta	3.58E-14	2.03E-14	3.10E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128020	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Alpha	6.85E-15	5.88E-15	7.21E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128020	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Beta	3.99E-14	2.00E-14	3.02E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128021	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Alpha	5.35E-15	5.66E-15	7.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128021	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Beta	4.78E-14	2.22E-14	3.29E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128022	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Alpha	7.39E-15	6.22E-15	6.93E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128022	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Beta	4.42E-14	1.80E-14	2.34E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128023	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Alpha	3.89E-15	5.46E-15	7.94E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128023	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.86E-14	2.68E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128024	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Alpha	6.56E-15	6.04E-15	7.11E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128024	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Beta	4.06E-14	1.81E-14	2.40E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128025	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Alpha	5.67E-15	5.83E-15	7.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128025	Plant 6WH	06/23/10	Gross Alpha/Beta	Gross Beta	3.19E-14	1.78E-14	2.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128026	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Alpha	2.49E-15	4.49E-15	7.20E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128026	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Beta	3.84E-14	1.81E-14	2.43E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128027	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Alpha	4.03E-16	3.30E-15	6.99E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128027	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Beta	3.00E-14	1.70E-14	2.36E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128028	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Alpha	2.74E-14	1.31E-14	1.13E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128028	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Beta	4.72E-14	1.77E-14	1.89E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128029	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Alpha	3.93E-16	3.22E-15	6.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128029	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.56E-14	2.30E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128030	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Alpha	6.00E-15	5.53E-15	6.50E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128030	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Beta	4.46E-15	1.39E-14	2.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128031	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Alpha	4.53E-15	5.32E-15	7.14E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128031	Plant 6WH	06/24/10	Gross Alpha/Beta	Gross Beta	2.25E-14	1.67E-14	2.41E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128032	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Alpha	6.69E-15	6.58E-15	8.56E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD128032	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Beta	2.58E-14	1.91E-14	2.66E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128033	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Alpha	2.95E-15	4.73E-15	7.67E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128033	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.65E-14	2.39E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128034	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Alpha	4.25E-15	5.52E-15	8.22E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128034	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Beta	3.55E-14	1.91E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128035	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Alpha	2.22E-14	1.12E-14	9.35E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128035	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Beta	4.03E-14	2.17E-14	2.91E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128036	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Alpha	5.41E-15	6.01E-15	8.33E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128036	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.80E-14	2.59E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128037	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Alpha	4.42E-15	5.75E-15	8.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128037	Plant 6WH	06/28/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.89E-14	2.66E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128038	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Alpha	9.42E-16	3.87E-15	7.90E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128038	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Beta	5.89E-15	1.61E-14	2.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128039	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Alpha	-1.02E-16	3.19E-15	7.74E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128039	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Beta	1.12E-14	1.62E-14	2.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128040	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.15E-15	8.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128040	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Beta	2.02E-14	1.89E-14	2.71E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128041	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Alpha	6.92E-15	6.16E-15	7.58E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128041	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Beta	1.09E-14	1.59E-14	2.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128042	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Alpha	5.13E-15	5.70E-15	7.90E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128042	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.71E-14	2.46E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128043	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Alpha	1.78E-15	3.94E-15	7.08E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128043	Plant 6WH	06/29/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.51E-14	2.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128044	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Alpha	-9.20E-17	2.86E-15	6.95E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128044	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Beta	9.41E-15	1.45E-14	2.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128045	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Alpha	8.85E-16	3.64E-15	7.42E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128045	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Beta	4.24E-15	1.50E-14	2.31E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128046	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Alpha	6.12E-15	7.78E-15	1.12E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128046	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Beta	1.32E-14	1.30E-14	1.82E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128047	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Alpha	2.27E-15	5.90E-15	1.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128047	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.24E-14	1.63E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128048	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Alpha	7.53E-15	7.50E-15	9.87E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128048	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.23E-14	1.61E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128049	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Alpha	-2.08E-15	4.08E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128049	Plant 6WH	06/30/10	Gross Alpha/Beta	Gross Beta	1.20E-14	1.18E-14	1.66E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128050	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Alpha	7.69E-15	7.66E-15	1.01E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128050	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Beta	2.98E-14	1.37E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128051	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	6.08E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128051	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Beta	1.36E-14	1.22E-14	1.68E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128052	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Alpha	1.22E-16	5.73E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128052	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Beta	5.64E-15	1.23E-14	1.85E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128053	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Alpha	-9.79E-16	4.61E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128053	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.25E-14	1.65E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128054	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	5.88E-15	1.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128054	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Beta	1.52E-14	1.20E-14	1.63E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128055	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	5.55E-15	9.44E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128055	Plant 6WH	07/01/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.17E-14	1.54E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128056	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Alpha	1.72E-16	8.05E-15	1.60E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128056	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Beta	4.64E-15	1.69E-14	2.61E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128057	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Alpha	9.62E-15	1.22E-14	1.76E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128057	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Beta	3.03E-14	2.15E-14	2.86E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128058	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Alpha	7.46E-15	8.30E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD128058	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.44E-14	1.85E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128059	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Alpha	7.29E-15	8.10E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128059	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.41E-14	1.81E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128060	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Alpha	7.29E-15	8.10E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128060	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Beta	2.91E-14	1.47E-14	1.81E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128061	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	9.21E-15	1.17E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128061	Plant 6WH	07/06/10	Gross Alpha/Beta	Gross Beta	3.29E-14	1.57E-14	1.90E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128062	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Alpha	9.96E-15	9.03E-15	1.15E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128062	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Beta	2.05E-14	1.41E-14	1.86E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128063	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Alpha	7.57E-15	8.42E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128063	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Beta	3.10E-14	1.54E-14	1.88E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128064	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Alpha	6.69E-15	8.50E-15	1.22E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128064	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.53E-14	1.99E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128065	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Alpha	1.41E-15	6.55E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128065	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.44E-14	1.95E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128066	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Alpha	-3.95E-15	4.29E-15	1.27E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128066	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.49E-14	2.06E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128067	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Alpha	2.74E-15	7.14E-15	1.22E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128067	Plant 6WH	07/07/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.45E-14	1.98E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128068	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Alpha	7.19E-15	7.99E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128068	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.32E-14	1.79E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128069	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Alpha	2.66E-15	6.93E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128069	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.37E-14	1.92E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128070	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Alpha	-1.15E-15	5.42E-15	1.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128070	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Beta	8.33E-15	1.32E-14	1.94E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128071	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Alpha	1.41E-16	6.59E-15	1.31E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128071	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Beta	2.17E-14	1.60E-14	2.13E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128072	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Alpha	8.90E-15	8.86E-15	1.17E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128072	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Beta	8.97E-15	1.30E-14	1.90E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128073	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Alpha	1.16E-14	9.69E-15	1.19E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128073	Plant 6WH	07/08/10	Gross Alpha/Beta	Gross Beta	2.53E-14	1.51E-14	1.93E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128074	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Alpha	2.53E-15	4.87E-15	7.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128074	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Beta	1.62E-14	1.58E-14	2.24E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128075	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Alpha	8.16E-15	7.24E-15	8.40E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128075	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.77E-14	2.50E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128076	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Alpha	-4.32E-16	4.37E-15	9.25E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128076	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Beta	2.99E-14	2.01E-14	2.75E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128077	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Alpha	1.67E-15	4.76E-15	8.01E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128077	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Beta	2.66E-14	1.75E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128078	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Alpha	6.02E-15	6.57E-15	8.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128078	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.71E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128079	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.31E-15	8.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128079	Plant 6WH	07/12/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.72E-14	2.44E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128080	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Alpha	5.43E-15	6.81E-15	9.20E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128080	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Beta	2.05E-14	1.93E-14	2.74E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128081	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Alpha	7.50E-16	4.99E-15	9.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128081	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.91E-14	2.77E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128082	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Alpha	-4.22E-16	4.27E-15	9.03E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128082	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.85E-14	2.69E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128083	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Alpha	2.04E-15	5.83E-15	9.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128083	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Beta	1.61E-14	2.01E-14	2.92E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128084	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Alpha	-3.92E-16	3.97E-15	8.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD128084	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.73E-14	2.50E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128085	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Alpha	-4.14E-16	4.19E-15	8.86E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128085	Plant 6WH	07/13/10	Gross Alpha/Beta	Gross Beta	4.70E-16	1.70E-14	2.64E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128086	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Alpha	3.15E-15	6.07E-15	9.38E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128086	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.95E-14	2.79E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128087	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Alpha	4.08E-15	6.13E-15	8.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128087	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Beta	1.38E-14	1.80E-14	2.63E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128088	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Alpha	4.70E-15	7.76E-15	1.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128088	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Beta	2.86E-14	1.53E-14	1.94E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128089	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Alpha	6.60E-15	7.81E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128089	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Beta	6.36E-15	1.17E-14	1.78E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128090	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Alpha	8.05E-15	8.45E-15	1.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128090	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.37E-14	1.84E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128091	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Alpha	5.58E-15	7.63E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128091	Plant 6WH	07/14/10	Gross Alpha/Beta	Gross Beta	3.13E-14	1.48E-14	1.82E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128092	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Alpha	7.52E-15	8.89E-15	1.26E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128092	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.52E-14	2.02E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128093	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Alpha	5.05E-15	8.34E-15	1.30E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128093	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.57E-14	2.09E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128094	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Alpha	-1.81E-15	6.05E-15	1.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128094	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.51E-14	2.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128095	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Alpha	-3.34E-16	5.87E-15	1.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128095	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Beta	2.77E-14	1.51E-14	1.93E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128096	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Alpha	4.07E-15	8.67E-15	1.43E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128096	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Beta	2.53E-14	1.71E-14	2.29E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128097	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Alpha	3.98E-15	8.47E-15	1.40E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128097	Plant 6WH	07/15/10	Gross Alpha/Beta	Gross Beta	2.47E-14	1.67E-14	2.24E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128098	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Alpha	3.75E-15	7.84E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128098	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.35E-14	1.81E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128099	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Alpha	2.55E-15	7.38E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128099	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Beta	1.88E-14	1.33E-14	1.79E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128100	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Alpha	-8.93E-16	5.98E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128100	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.28E-14	1.72E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128101	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Alpha	2.63E-15	7.63E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128101	Plant 6WH	07/19/10	Gross Alpha/Beta	Gross Beta	1.26E-14	1.29E-14	1.84E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128102	Plant 6WH	07/20/10	Gross Alpha/Beta	Gross Alpha	5.38E-15	1.56E-14	2.26E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128102	Plant 6WH	07/20/10	Gross Alpha/Beta	Gross Beta	2.39E-15	2.35E-14	3.78E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128103	Plant 6WH	07/20/10	Gross Alpha/Beta	Gross Alpha	5.66E-15	7.90E-15	1.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128103	Plant 6WH	07/20/10	Gross Alpha/Beta	Gross Beta	1.08E-14	1.17E-14	1.68E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128104	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Alpha	6.89E-15	8.37E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128104	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.26E-14	1.72E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128105	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Alpha	6.53E-16	1.87E-14	3.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128105	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Beta	1.77E-14	3.32E-14	5.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128106	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Alpha	8.73E-15	8.57E-15	9.83E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128106	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.22E-14	1.64E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128107	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Alpha	1.33E-15	6.73E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128107	Plant 6WH	07/21/10	Gross Alpha/Beta	Gross Beta	1.88E-14	1.28E-14	1.72E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128108	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Alpha	4.88E-15	8.11E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128108	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.31E-14	1.79E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128109	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Alpha	7.24E-15	8.80E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128109	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Beta	2.27E-14	1.38E-14	1.80E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128110	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Alpha	6.04E-15	8.44E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD128110	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.32E-14	1.79E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128111	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Alpha	1.67E-14	2.78E-14	3.67E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128111	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Beta	4.19E-14	4.30E-14	6.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128112	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Alpha	1.92E-15	9.70E-15	1.48E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128112	Plant 6WH	07/22/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.79E-14	2.47E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128113	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Alpha	4.48E-15	6.78E-15	9.21E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128113	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.92E-14	1.50E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128114	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Alpha	4.12E-16	5.53E-15	9.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128114	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.98E-14	1.53E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128115	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Alpha	-6.95E-16	5.68E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128115	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Beta	1.59E-14	2.13E-14	1.70E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128116	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Alpha	4.55E-15	6.89E-15	9.36E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128116	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Beta	3.07E-14	2.02E-14	1.52E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128117	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Alpha	4.49E-15	6.80E-15	9.25E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128117	Plant 6WH	07/26/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.92E-14	1.51E-14	uCi/mL	J	T02	SLDS (General Area) Perimeter Air
SLD128118	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	7.59E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128118	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Beta	1.95E-14	2.23E-14	1.76E-14	uCi/mL	J	T02	SLDS (General Area) Perimeter Air
SLD128119	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Alpha	6.08E-15	7.83E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128119	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Beta	3.06E-14	2.19E-14	1.66E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128120	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Alpha	4.97E-15	7.53E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128120	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Beta	3.29E-14	2.21E-14	1.67E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128121	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.99E-15	9.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128121	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Beta	2.57E-14	2.11E-14	1.62E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128122	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.87E-15	8.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128122	Plant 6WH	07/27/10	Gross Alpha/Beta	Gross Beta	1.65E-14	1.83E-14	1.44E-14	uCi/mL	J	T02	SLDS (General Area) Perimeter Air
SLD128123	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	9.97E-15	1.36E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128123	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Beta	2.82E-14	2.82E-14	2.21E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128124	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	1.14E-14	1.32E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128124	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Beta	1.83E-14	2.69E-14	2.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128125	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Alpha	1.36E-14	1.09E-14	1.19E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128125	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Beta	1.97E-14	2.44E-14	1.93E-14	uCi/mL	J	T02	SLDS (General Area) Perimeter Air
SLD128126	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Alpha	5.58E-16	7.48E-15	1.27E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128126	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Beta	2.74E-14	2.66E-14	2.07E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128127	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Alpha	7.76E-15	9.99E-15	1.30E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128127	Plant 6WH	07/28/10	Gross Alpha/Beta	Gross Beta	2.16E-14	2.67E-14	2.12E-14	uCi/mL	J	T02	SLDS (General Area) Perimeter Air
SLD128128	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Alpha	2.81E-15	7.07E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128128	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Beta	3.33E-14	2.29E-14	1.73E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128129	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Alpha	2.68E-15	6.72E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128129	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Beta	3.31E-14	2.18E-14	1.64E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128130	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Alpha	1.45E-14	1.03E-14	1.06E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128130	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Beta	2.73E-14	2.25E-14	1.73E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128131	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Alpha	7.30E-15	8.26E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128131	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Beta	3.61E-14	2.25E-14	1.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128132	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Alpha	5.75E-15	7.40E-15	9.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128132	Plant 6WH	07/29/10	Gross Alpha/Beta	Gross Beta	2.14E-14	2.02E-14	1.57E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128133	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Alpha	5.37E-15	7.66E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128133	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Beta	5.51E-14	1.73E-14	1.84E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128134	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Alpha	3.98E-15	6.93E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128134	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Beta	3.73E-14	1.51E-14	1.75E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128135	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.65E-15	1.04E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128135	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Beta	4.48E-14	1.52E-14	1.65E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128136	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Alpha	8.68E-15	8.46E-15	1.13E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD128136	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.34E-14	1.79E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128137	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Alpha	1.79E-15	6.38E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128137	Plant 6WH	08/02/10	Gross Alpha/Beta	Gross Beta	3.20E-14	1.50E-14	1.81E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128138	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Alpha	1.55E-14	1.20E-14	1.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD128138	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Beta	4.59E-14	1.95E-14	2.28E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128139	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Alpha	2.17E-15	7.73E-15	1.38E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD128139	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Beta	3.78E-14	1.81E-14	2.19E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD128140	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Alpha	1.31E-14	1.08E-14	1.35E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD128140	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Beta	5.35E-14	1.92E-14	2.14E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129773	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Alpha	5.08E-15	8.85E-15	1.41E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129773	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Beta	5.13E-14	1.96E-14	2.23E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129774	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Alpha	5.98E-15	8.53E-15	1.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129774	Plant 6WH	08/03/10	Gross Alpha/Beta	Gross Beta	4.62E-14	1.79E-14	2.05E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129775	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Alpha	5.92E-15	8.45E-15	1.28E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129775	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Beta	4.41E-14	1.76E-14	2.03E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129776	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Alpha	6.79E-15	9.69E-15	1.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129776	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Beta	2.48E-14	1.76E-14	2.32E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129777	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Alpha	1.31E-14	1.08E-14	1.34E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129777	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Beta	5.32E-14	1.91E-14	2.12E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129778	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Alpha	7.53E-15	9.22E-15	1.33E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129778	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Beta	1.74E-14	1.54E-14	2.11E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129779	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Alpha	6.27E-15	8.95E-15	1.35E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129779	Plant 6WH	08/04/10	Gross Alpha/Beta	Gross Beta	2.82E-14	1.68E-14	2.15E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129780	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Alpha	1.13E-14	9.32E-15	1.16E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129780	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Beta	4.60E-14	1.65E-14	1.84E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129781	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Alpha	5.24E-15	7.49E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129781	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Beta	4.72E-14	1.63E-14	1.80E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129782	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Alpha	7.01E-15	8.58E-15	1.24E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129782	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Beta	5.00E-14	1.77E-14	1.96E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129783	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Alpha	7.88E-15	8.52E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129783	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Beta	3.92E-14	1.61E-14	1.87E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129784	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Alpha	5.52E-15	7.88E-15	1.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129784	Plant 6WH	08/05/10	Gross Alpha/Beta	Gross Beta	3.65E-14	1.59E-14	1.89E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129785	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Alpha	3.72E-15	6.16E-15	9.80E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129785	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Beta	2.51E-14	1.22E-14	1.56E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129786	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	9.91E-15	1.27E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129786	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Beta	4.75E-14	1.73E-14	2.02E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129787	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Alpha	7.28E-15	8.62E-15	1.24E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129787	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Beta	3.92E-14	1.62E-14	1.98E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129788	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Alpha	1.09E-14	9.51E-15	1.22E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129788	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Beta	3.68E-14	1.57E-14	1.94E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129789	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Alpha	1.89E-14	1.07E-14	1.10E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129789	Plant 6WH	08/09/10	Gross Alpha/Beta	Gross Beta	3.90E-14	1.47E-14	1.75E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129790	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Alpha	5.47E-15	7.51E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129790	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Beta	4.77E-14	1.59E-14	1.80E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129791	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.85E-15	1.03E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129791	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Beta	3.52E-14	1.37E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129792	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Alpha	6.38E-15	7.55E-15	1.09E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129792	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Beta	2.29E-14	1.30E-14	1.73E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129793	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Alpha	1.08E-14	9.37E-15	1.20E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129793	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Beta	5.37E-14	1.72E-14	1.91E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129794	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Alpha	1.36E-14	9.66E-15	1.12E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129794	Plant 6WH	08/10/10	Gross Alpha/Beta	Gross Beta	2.88E-14	1.39E-14	1.79E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129795	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.02E-15	1.16E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129795	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Beta	3.57E-14	1.50E-14	1.84E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129796	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Alpha	4.49E-15	7.44E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129796	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.34E-14	1.88E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129797	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Alpha	2.96E-15	6.38E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129797	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Beta	1.05E-14	1.14E-14	1.71E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129798	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Alpha	5.82E-15	6.88E-15	9.92E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129798	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.21E-14	1.58E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129799	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Alpha	7.75E-15	8.13E-15	1.12E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129799	Plant 6WH	08/11/10	Gross Alpha/Beta	Gross Beta	4.36E-14	1.54E-14	1.79E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129800	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Alpha	6.27E-15	7.42E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129800	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Beta	2.95E-14	1.35E-14	1.70E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129801	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Alpha	8.12E-15	8.52E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129801	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Beta	3.02E-14	1.46E-14	1.87E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129802	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	9.29E-15	1.15E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129802	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Beta	2.57E-14	1.39E-14	1.83E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129803	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Alpha	4.47E-15	7.40E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129803	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Beta	3.79E-14	1.54E-14	1.87E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129804	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Alpha	9.12E-15	8.66E-15	1.15E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129804	Plant 6WH	08/12/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.29E-14	1.83E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129805	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.08E-15	7.66E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129805	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Beta	4.07E-14	2.02E-14	2.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129806	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Alpha	4.97E-15	5.82E-15	7.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129806	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Beta	9.03E-15	1.82E-14	2.59E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129807	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.08E-15	7.66E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129807	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Beta	1.02E-14	1.78E-14	2.52E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129808	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Alpha	8.03E-15	6.74E-15	7.56E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129808	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.82E-14	2.49E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129809	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Alpha	4.55E-15	5.32E-15	7.20E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129809	Plant 6WH	08/16/10	Gross Alpha/Beta	Gross Beta	2.19E-14	1.77E-14	2.37E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129810	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Alpha	3.76E-15	5.26E-15	7.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129810	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.89E-14	2.55E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129811	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Alpha	8.65E-15	7.26E-15	8.14E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129811	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Beta	3.94E-14	2.11E-14	2.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129812	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Alpha	6.71E-15	6.16E-15	7.29E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129812	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.75E-14	2.40E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129813	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Alpha	9.68E-15	7.52E-15	8.02E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129813	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.94E-14	2.64E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129814	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Alpha	2.25E-14	1.08E-14	8.06E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129814	Plant 6WH	08/17/10	Gross Alpha/Beta	Gross Beta	2.07E-14	1.96E-14	2.66E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129815	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Alpha	8.61E-15	7.22E-15	8.10E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129815	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Beta	3.31E-14	2.06E-14	2.67E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129816	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Alpha	4.97E-15	5.82E-15	7.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129816	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Beta	3.21E-14	2.00E-14	2.59E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129817	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Alpha	1.32E-14	8.56E-15	8.06E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129817	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Beta	3.60E-14	2.07E-14	2.66E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129818	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Alpha	1.46E-14	9.00E-15	8.18E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129818	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Beta	3.49E-14	2.09E-14	2.69E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129819	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Alpha	8.92E-15	6.93E-15	7.39E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129819	Plant 6WH	08/18/10	Gross Alpha/Beta	Gross Beta	3.09E-14	1.88E-14	2.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129820	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Alpha	6.82E-15	6.27E-15	7.42E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129820	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Beta	4.23E-14	1.98E-14	2.45E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129821	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Alpha	9.37E-15	7.28E-15	7.76E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129821	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Beta	3.32E-14	1.99E-14	2.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129822	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Alpha	2.60E-15	4.68E-15	7.59E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129822	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.87E-14	2.50E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129823	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Alpha	8.57E-15	7.19E-15	8.06E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129823	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Beta	5.35E-14	2.20E-14	2.66E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129824	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Alpha	6.34E-15	6.49E-15	8.18E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129824	Plant 6WH	08/19/10	Gross Alpha/Beta	Gross Beta	4.35E-14	2.15E-14	2.69E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129825	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	5.96E-15	9.36E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129825	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Beta	6.05E-15	1.82E-14	2.72E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129826	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Alpha	5.30E-15	7.00E-15	9.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129826	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Beta	3.53E-14	2.11E-14	2.80E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129827	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Alpha	4.04E-15	6.49E-15	9.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129827	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Beta	2.55E-14	2.00E-14	2.76E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129828	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Alpha	5.32E-15	7.04E-15	9.68E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129828	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Beta	3.39E-14	2.10E-14	2.82E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129829	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	5.76E-15	9.83E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129829	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.97E-14	2.86E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129830	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.99E-15	9.83E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129830	Plant 6WH	08/23/10	Gross Alpha/Beta	Gross Beta	5.20E-14	2.26E-14	2.86E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129831	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Alpha	9.84E-15	8.28E-15	9.41E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129831	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Beta	4.90E-14	2.16E-14	2.73E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129832	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	8.56E-15	9.36E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129832	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Beta	2.21E-14	1.95E-14	2.72E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129833	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Alpha	4.04E-15	6.49E-15	9.50E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129833	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Beta	2.86E-14	2.03E-14	2.76E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129834	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Alpha	1.42E-14	9.28E-15	9.19E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129834	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Beta	2.09E-14	1.91E-14	2.67E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129835	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	8.13E-15	8.90E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129835	Plant 6WH	08/24/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.87E-14	2.59E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129836	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Alpha	4.52E-15	5.98E-15	8.23E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129836	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.66E-14	2.39E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129837	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	5.94E-15	8.70E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129837	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.84E-14	2.53E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129838	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Alpha	8.02E-15	7.34E-15	8.70E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129838	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.77E-14	2.53E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129839	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Alpha	6.44E-15	6.16E-15	7.72E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129839	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Beta	1.88E-14	1.68E-14	2.40E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129840	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Alpha	7.66E-15	6.66E-15	7.89E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129840	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Beta	2.42E-14	1.76E-14	2.45E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129841	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Alpha	5.58E-15	6.00E-15	8.00E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129841	Plant 6WH	08/25/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.73E-14	2.49E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129842	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Alpha	7.56E-15	6.57E-15	7.79E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129842	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Beta	3.72E-14	1.84E-14	2.42E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129843	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Alpha	6.64E-15	6.36E-15	7.96E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129843	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Beta	2.94E-14	1.82E-14	2.48E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129844	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Alpha	4.42E-15	5.51E-15	7.89E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129844	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Beta	4.05E-14	1.89E-14	2.45E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129845	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	6.81E-15	8.07E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129845	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Beta	2.26E-14	1.78E-14	2.51E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129846	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	8.01E-15	7.96E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129846	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.77E-14	2.48E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129847	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	7.71E-15	7.96E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129847	Plant 6WH	08/26/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.77E-14	2.48E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129848	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Alpha	4.24E-15	7.39E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129848	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Beta	8.50E-15	1.23E-14	1.80E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129849	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Alpha	7.41E-15	8.06E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129849	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.23E-14	1.73E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129850	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Alpha	1.91E-15	6.61E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129850	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Beta	3.38E-14	1.51E-14	1.80E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129851	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Alpha	3.08E-15	7.01E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129851	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.52E-14	1.80E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129852	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Alpha	2.86E-15	6.53E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129852	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Beta	2.11E-14	1.30E-14	1.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129853	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Alpha	-1.57E-15	5.16E-15	1.12E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129853	Plant 6WH	08/30/10	Gross Alpha/Beta	Gross Beta	2.16E-14	1.36E-14	1.78E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129854	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Alpha	3.34E-15	7.60E-15	1.23E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129854	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Beta	3.34E-14	1.60E-14	1.96E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129855	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Alpha	8.40E-15	9.14E-15	1.23E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129855	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.47E-14	1.96E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129856	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Alpha	6.43E-15	7.91E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129856	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Beta	2.21E-14	1.36E-14	1.76E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129857	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Alpha	1.19E-14	9.22E-15	1.08E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129857	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.31E-14	1.73E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129858	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Alpha	4.20E-15	7.32E-15	1.12E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129858	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.27E-14	1.79E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129859	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Alpha	3.09E-15	7.04E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129859	Plant 6WH	08/31/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.32E-14	1.81E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129860	Plant 6WH	09/01/10	Gross Alpha/Beta	Gross Alpha	4.36E-15	7.60E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129860	Plant 6WH	09/01/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.38E-14	1.86E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129861	Plant 6WH	09/01/10	Gross Alpha/Beta	Gross Alpha	4.36E-15	7.60E-15	1.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129861	Plant 6WH	09/01/10	Gross Alpha/Beta	Gross Beta	9.50E-15	1.28E-14	1.86E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129866	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Alpha	1.42E-15	5.50E-15	9.98E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129866	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Beta	2.15E-14	1.29E-14	1.70E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129867	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	5.77E-15	9.73E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129867	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.24E-14	1.66E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129868	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Alpha	8.30E-15	7.99E-15	1.04E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129868	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.37E-14	1.77E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129869	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Alpha	3.62E-16	5.58E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129869	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.34E-14	1.88E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129870	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	9.03E-15	1.13E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129870	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.38E-14	1.92E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129871	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Alpha	1.55E-15	5.99E-15	1.09E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129871	Plant 6WH	09/07/10	Gross Alpha/Beta	Gross Beta	3.17E-14	1.49E-14	1.85E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129872	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Alpha	-8.78E-16	5.23E-15	1.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129872	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.46E-14	1.95E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129873	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Alpha	1.63E-15	6.32E-15	1.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129873	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.46E-14	1.95E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129874	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Alpha	2.79E-15	6.57E-15	1.11E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129874	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Beta	3.00E-14	1.50E-14	1.88E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129875	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Alpha	8.85E-15	8.52E-15	1.11E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129875	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.43E-14	1.88E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129876	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Alpha	9.06E-15	8.73E-15	1.14E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129876	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Beta	3.07E-14	1.53E-14	1.93E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129877	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Alpha	5.34E-15	7.59E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129877	Plant 6WH	09/08/10	Gross Alpha/Beta	Gross Beta	3.39E-14	1.57E-14	1.93E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129878	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	1.11E-14	1.44E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129878	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Beta	4.39E-14	1.99E-14	2.44E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129879	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Alpha	7.94E-15	9.63E-15	1.37E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129879	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.78E-14	2.33E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129880	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Alpha	9.64E-16	8.06E-15	1.48E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129880	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Beta	4.51E-14	1.89E-14	2.22E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129881	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	8.93E-15	1.53E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129881	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Beta	3.54E-14	1.84E-14	2.30E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129882	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Alpha	9.87E-16	8.25E-15	1.51E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129882	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Beta	3.22E-14	1.79E-14	2.27E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129883	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Alpha	-5.78E-16	7.73E-15	1.53E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129883	Plant 6WH	09/09/10	Gross Alpha/Beta	Gross Beta	3.64E-14	1.85E-14	2.30E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129884	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Alpha	1.91E-15	8.15E-15	1.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129884	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Beta	2.78E-14	1.56E-14	1.91E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129885	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Alpha	-5.25E-16	7.35E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129885	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.62E-14	1.91E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129886	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	8.80E-15	1.23E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129886	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Beta	3.51E-14	1.67E-14	1.98E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129887	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Alpha	3.16E-15	8.59E-15	1.20E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129887	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Beta	3.51E-14	1.64E-14	1.93E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129888	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Alpha	5.67E-15	9.35E-15	1.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129888	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Beta	2.75E-14	1.58E-14	1.95E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129889	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Alpha	4.43E-15	9.02E-15	1.21E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129889	Plant 6WH	09/13/10	Gross Alpha/Beta	Gross Beta	2.91E-14	1.59E-14	1.95E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129890	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Alpha	8.88E-15	9.73E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129890	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Beta	4.62E-14	1.68E-14	1.84E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129891	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	1.03E-14	1.18E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129891	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Beta	3.61E-14	1.63E-14	1.91E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129892	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Alpha	-1.58E-15	6.31E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129892	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Beta	-2.25E-15	1.10E-14	1.73E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129893	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Alpha	-5.06E-16	7.08E-15	1.14E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129893	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Beta	8.03E-15	1.29E-14	1.84E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129894	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	1.11E-14	1.23E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129894	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Beta	3.93E-14	1.72E-14	1.99E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129895	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Alpha	4.32E-15	8.80E-15	1.18E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129895	Plant 6WH	09/14/10	Gross Alpha/Beta	Gross Beta	3.92E-14	1.66E-14	1.91E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129896	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	1.06E-14	1.18E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129896	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.62E-14	1.90E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129897	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Alpha	5.38E-15	8.88E-15	1.15E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129897	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Beta	4.94E-14	1.72E-14	1.85E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129898	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Alpha	7.41E-15	6.35E-15	7.25E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129898	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.55E-14	2.27E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129899	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Alpha	2.79E-15	5.33E-15	8.75E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129899	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Beta	3.67E-14	1.99E-14	2.74E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129900	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Alpha	1.40E-14	8.78E-15	8.14E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129900	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Beta	6.12E-14	2.06E-14	2.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129901	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Alpha	1.50E-14	8.59E-15	7.47E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129901	Plant 6WH	09/15/10	Gross Alpha/Beta	Gross Beta	5.00E-14	1.85E-14	2.34E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129902	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Alpha	1.38E-15	4.18E-15	7.74E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129902	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Beta	2.53E-14	1.70E-14	2.42E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129903	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Alpha	5.89E-15	6.20E-15	7.95E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129903	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Beta	9.07E-15	1.60E-14	2.49E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129904	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	4.46E-15	8.25E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129904	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Beta	1.17E-14	1.68E-14	2.58E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129905	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Alpha	6.39E-15	6.73E-15	8.62E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129905	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.79E-14	2.70E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129906	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Alpha	4.56E-15	5.53E-15	7.60E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129906	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Beta	3.33E-14	1.74E-14	2.38E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129907	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Alpha	2.52E-15	4.82E-15	7.91E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129907	Plant 6WH	09/16/10	Gross Alpha/Beta	Gross Beta	6.10E-15	1.57E-14	2.48E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129908	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Alpha	6.12E-15	8.23E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129908	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Beta	3.94E-14	1.54E-14	1.70E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129909	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Alpha	-5.16E-16	6.19E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129909	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.33E-14	1.70E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129910	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Alpha	8.19E-15	8.66E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129910	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Beta	4.15E-14	1.54E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129911	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Alpha	7.79E-15	8.24E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129911	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Beta	5.53E-14	1.60E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129912	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Alpha	4.63E-15	7.33E-15	9.99E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129912	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Beta	2.67E-14	1.33E-14	1.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129913	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	9.00E-15	9.87E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129913	Plant 6WH	09/20/10	Gross Alpha/Beta	Gross Beta	4.11E-14	1.45E-14	1.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129914	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Alpha	9.13E-15	8.78E-15	1.05E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129914	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Beta	4.90E-14	1.59E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129915	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Alpha	8.83E-15	8.49E-15	1.01E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129915	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Beta	5.20E-14	1.57E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129916	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	8.92E-15	1.03E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129916	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Beta	3.83E-14	1.48E-14	1.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129917	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Alpha	8.06E-15	8.51E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129917	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Beta	5.10E-14	1.60E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129918	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Alpha	9.99E-15	8.85E-15	1.02E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129918	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Beta	5.80E-14	1.64E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129919	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Alpha	8.48E-15	8.97E-15	1.10E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129919	Plant 6WH	09/21/10	Gross Alpha/Beta	Gross Beta	6.74E-14	1.80E-14	1.73E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129920	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Alpha	5.22E-15	8.25E-15	1.13E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129920	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.42E-14	1.77E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129921	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Alpha	3.89E-15	7.58E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129921	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.30E-14	1.69E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129922	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Alpha	4.85E-15	7.66E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129922	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Beta	9.51E-15	1.20E-14	1.64E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129923	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Alpha	3.46E-15	6.74E-15	9.57E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129923	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.14E-14	1.50E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129924	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Alpha	5.83E-16	6.49E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129924	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Beta	3.45E-15	1.15E-14	1.68E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129925	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Alpha	5.73E-16	6.38E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129925	Plant 6WH	09/22/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.23E-14	1.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129926	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Alpha	5.87E-15	7.89E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129926	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Beta	4.05E-14	1.50E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129927	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Alpha	2.80E-15	7.29E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129927	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Beta	4.93E-14	1.63E-14	1.70E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129928	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Alpha	7.73E-15	8.17E-15	1.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129928	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Beta	6.14E-14	1.64E-14	1.58E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129929	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Alpha	6.76E-15	7.97E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129929	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Beta	4.08E-14	1.48E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129930	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.19E-15	1.06E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129930	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Beta	4.78E-14	1.60E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129931	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Alpha	4.67E-15	7.38E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129931	Plant 6WH	09/23/10	Gross Alpha/Beta	Gross Beta	4.20E-14	1.48E-14	1.58E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129932	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Alpha	4.51E-15	7.12E-15	9.72E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129932	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.22E-14	1.53E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129933	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	7.48E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129933	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.33E-14	1.67E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129934	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Alpha	-3.71E-15	4.70E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129934	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.22E-14	1.64E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129935	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Alpha	5.26E-16	5.86E-15	9.64E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129935	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.14E-14	1.52E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129936	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Alpha	2.71E-15	7.04E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129936	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.35E-14	1.64E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129937	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Alpha	4.93E-15	7.79E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129937	Plant 6WH	09/27/10	Gross Alpha/Beta	Gross Beta	8.29E-15	1.20E-14	1.67E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129938	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Alpha	5.85E-16	6.52E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129938	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Beta	3.00E-14	1.44E-14	1.69E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129939	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Alpha	2.76E-15	7.16E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129939	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Beta	4.15E-14	1.54E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129940	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Alpha	6.82E-15	8.04E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129940	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Beta	3.39E-14	1.42E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129941	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Alpha	5.78E-16	6.44E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129941	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Beta	4.20E-14	1.54E-14	1.66E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129942	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Alpha	3.88E-15	7.55E-15	1.07E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129942	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Beta	3.49E-14	1.49E-14	1.69E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129943	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	9.00E-15	1.04E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129943	Plant 6WH	09/28/10	Gross Alpha/Beta	Gross Beta	3.93E-14	1.50E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129944	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Alpha	7.61E-15	8.04E-15	9.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129944	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Beta	4.50E-14	1.49E-14	1.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129945	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Alpha	6.93E-15	8.17E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129945	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Beta	3.78E-14	1.48E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129946	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.50E-15	9.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129946	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Beta	1.90E-14	1.16E-14	1.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129947	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Alpha	3.06E-15	5.72E-15	9.22E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129947	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Beta	1.35E-14	1.05E-14	1.48E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129948	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.72E-15	9.99E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129948	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Beta	5.01E-14	1.51E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129949	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Alpha	9.75E-15	7.98E-15	9.49E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129949	Plant 6WH	09/29/10	Gross Alpha/Beta	Gross Beta	4.42E-14	1.40E-14	1.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129950	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Alpha	9.55E-15	7.82E-15	9.29E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129950	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Beta	2.72E-14	1.21E-14	1.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129951	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Alpha	5.54E-15	6.89E-15	9.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129951	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Beta	2.87E-14	1.28E-14	1.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129952	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Alpha	9.74E-16	5.11E-15	9.69E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129952	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Beta	2.97E-14	1.28E-14	1.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129953	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Alpha	6.12E-15	6.65E-15	9.00E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129953	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Beta	3.19E-14	1.23E-14	1.44E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129954	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	6.01E-15	9.69E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD129954	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.28E-14	1.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129955	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Alpha	5.24E-15	6.52E-15	9.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129955	Plant 6WH	09/30/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.18E-14	1.49E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129956	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Alpha	9.54E-15	1.39E-14	2.09E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129956	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Beta	4.05E-14	4.19E-14	6.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129957	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Alpha	6.67E-15	1.24E-14	2.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129957	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Beta	3.42E-14	4.01E-14	5.83E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129958	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Alpha	9.54E-15	1.39E-14	2.09E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129958	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Beta	2.14E-14	4.02E-14	6.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129959	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Alpha	6.47E-15	1.20E-14	1.96E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129959	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Beta	3.81E-14	3.93E-14	5.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129960	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Alpha	1.66E-15	1.09E-14	2.19E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129960	Plant 6WH	10/04/10	Gross Alpha/Beta	Gross Beta	-3.23E-14	3.70E-14	6.29E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129961	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Alpha	-4.17E-16	3.51E-15	8.22E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129961	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.79E-14	2.37E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129962	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Alpha	-2.29E-15	1.74E-15	7.51E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129962	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Beta	1.67E-16	1.38E-14	2.16E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129963	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.46E-15	7.63E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129963	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Beta	3.45E-14	1.69E-14	2.20E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129964	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Alpha	1.36E-14	7.86E-15	7.34E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129964	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Beta	3.20E-14	1.61E-14	2.11E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129965	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Alpha	1.68E-15	4.62E-15	8.29E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129965	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Beta	4.09E-14	1.86E-14	2.39E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129966	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Alpha	2.79E-15	5.19E-15	8.47E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129966	Plant 6WH	10/05/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.76E-14	2.44E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129967	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Alpha	4.73E-15	5.76E-15	8.11E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129967	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Beta	1.91E-14	1.65E-14	2.34E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129968	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Alpha	3.60E-15	5.22E-15	7.88E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129968	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.70E-14	2.27E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129969	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.20E-15	7.54E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129969	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.59E-14	2.17E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD129970	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Alpha	9.10E-15	7.91E-15	9.68E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD129970	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.15E-14	1.50E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129971	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Alpha	5.52E-15	7.29E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129971	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Beta	3.61E-14	1.34E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD129972	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Alpha	-1.81E-15	5.07E-15	1.08E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD129972	Plant 6WH	10/06/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.38E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131421	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Alpha	1.66E-14	1.13E-14	1.24E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131421	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Beta	5.47E-14	1.72E-14	1.92E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131422	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Alpha	1.42E-14	1.02E-14	1.14E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131422	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Beta	5.78E-14	1.65E-14	1.77E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131423	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	1.00E-14	1.23E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131423	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Beta	6.20E-14	1.77E-14	1.90E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131424	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	9.71E-15	1.23E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131424	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Beta	5.81E-14	1.74E-14	1.90E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131425	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Alpha	1.51E-14	1.02E-14	1.12E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131425	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Beta	7.76E-14	1.80E-14	1.74E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131426	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Alpha	3.54E-15	6.85E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131426	Plant 6WH	10/07/10	Gross Alpha/Beta	Gross Beta	4.92E-14	1.48E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131427	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Alpha	1.67E-14	9.84E-15	9.69E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131427	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Beta	6.20E-14	1.58E-14	1.55E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131428	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Alpha	1.28E-14	9.15E-15	1.01E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD131428	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Beta	5.35E-14	1.56E-14	1.62E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131429	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Alpha	1.72E-14	1.06E-14	1.07E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131429	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Beta	6.25E-14	1.70E-14	1.72E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131430	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Alpha	2.21E-15	5.88E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131430	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Beta	5.40E-14	1.57E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131431	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.92E-15	1.02E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131431	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Beta	5.47E-14	1.58E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131432	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.83E-15	9.77E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131432	Plant 6WH	10/11/10	Gross Alpha/Beta	Gross Beta	5.44E-14	1.53E-14	1.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131433	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Alpha	2.17E-14	1.07E-14	9.41E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131433	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Beta	6.68E-14	1.59E-14	1.51E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131434	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Alpha	2.30E-14	1.14E-14	9.99E-15	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131434	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Beta	5.91E-14	1.59E-14	1.60E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131435	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Alpha	1.73E-14	9.80E-15	9.41E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131435	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Beta	6.22E-14	1.55E-14	1.51E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131436	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Alpha	1.43E-14	9.19E-15	9.57E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131436	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Beta	6.79E-14	1.62E-14	1.53E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131437	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Alpha	1.82E-14	1.03E-14	9.90E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131437	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Beta	6.55E-14	1.64E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131438	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Alpha	1.71E-14	1.01E-14	9.95E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131438	Plant 6WH	10/12/10	Gross Alpha/Beta	Gross Beta	7.47E-14	1.72E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131439	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Alpha	2.04E-15	5.42E-15	9.41E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131439	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Beta	3.54E-14	1.31E-14	1.51E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131440	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Alpha	9.67E-15	7.92E-15	9.41E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131440	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Beta	3.08E-14	1.26E-14	1.51E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131441	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Alpha	1.34E-14	9.33E-15	1.04E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131441	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Beta	3.33E-14	1.52E-14	1.71E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131442	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.76E-15	1.01E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131442	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Beta	4.05E-14	1.54E-14	1.65E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131443	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.65E-15	9.95E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131443	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Beta	3.19E-14	1.45E-14	1.63E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131444	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Alpha	5.27E-15	7.01E-15	1.04E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131444	Plant 6WH	10/13/10	Gross Alpha/Beta	Gross Beta	3.26E-14	1.51E-14	1.71E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131445	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.61E-15	1.03E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131445	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Beta	2.53E-14	1.42E-14	1.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131446	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Alpha	-1.62E-15	3.87E-15	9.87E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131446	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Beta	2.57E-14	1.38E-14	1.62E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131447	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Alpha	3.81E-15	6.12E-15	9.62E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131447	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Beta	2.12E-14	1.31E-14	1.58E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131448	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Alpha	8.11E-15	7.49E-15	9.62E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131448	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Beta	2.70E-14	1.37E-14	1.58E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131449	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	6.52E-15	1.03E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131449	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.34E-14	1.68E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131450	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.47E-15	9.74E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131450	Plant 6WH	10/14/10	Gross Alpha/Beta	Gross Beta	2.47E-14	1.36E-14	1.60E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131451	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Alpha	1.46E-14	9.20E-15	9.66E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131451	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Beta	8.23E-14	1.82E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131452	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Alpha	1.55E-14	9.34E-15	9.54E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131452	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Beta	6.65E-14	1.69E-14	1.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131453	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Alpha	1.77E-14	9.85E-15	9.58E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131453	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Beta	6.36E-14	1.67E-14	1.57E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131454	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Alpha	1.18E-14	8.69E-15	9.99E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD131454	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Beta	6.43E-14	1.73E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131455	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Alpha	2.10E-14	1.06E-14	9.62E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131455	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Beta	6.45E-14	1.69E-14	1.58E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131456	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Alpha	1.63E-14	9.77E-15	9.99E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131456	Plant 6WH	10/18/10	Gross Alpha/Beta	Gross Beta	6.43E-14	1.73E-14	1.64E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131457	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.77E-15	1.04E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131457	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.42E-14	1.71E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131458	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.51E-15	9.78E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131458	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Beta	2.02E-14	1.32E-14	1.61E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131459	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Alpha	3.89E-15	6.25E-15	9.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131459	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Beta	3.28E-14	1.45E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131460	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.65E-15	9.95E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131460	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Beta	2.66E-14	1.40E-14	1.63E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131461	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Alpha	8.72E-15	8.05E-15	1.04E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131461	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Beta	2.97E-14	1.48E-14	1.70E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131462	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Alpha	4.96E-15	6.60E-15	9.78E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131462	Plant 6WH	10/19/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.31E-14	1.61E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131463	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Alpha	1.41E-14	8.83E-15	9.28E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131463	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Beta	4.41E-14	1.48E-14	1.52E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131464	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	6.17E-15	9.70E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131464	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Beta	3.31E-14	1.43E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131465	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	7.17E-15	7.31E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131465	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Beta	3.57E-14	1.61E-14	2.22E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131466	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Alpha	5.04E-15	5.44E-15	7.14E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131466	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Beta	3.93E-14	1.61E-14	2.17E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131467	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Alpha	7.20E-15	6.28E-15	7.34E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131467	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Beta	2.29E-14	1.51E-14	2.23E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131468	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Alpha	7.44E-15	6.49E-15	7.58E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131468	Plant 6WH	10/20/10	Gross Alpha/Beta	Gross Beta	3.17E-14	1.63E-14	2.31E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131469	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Alpha	4.55E-15	5.69E-15	8.01E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131469	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Beta	3.06E-14	1.70E-14	2.44E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131470	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Alpha	6.39E-15	6.14E-15	7.58E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131470	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.55E-14	2.31E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131471	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	6.32E-15	7.81E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131471	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.59E-14	2.37E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131472	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Alpha	4.29E-15	5.36E-15	7.55E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131472	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Beta	2.29E-14	1.55E-14	2.30E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131473	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Alpha	3.25E-15	4.95E-15	7.55E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131473	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Beta	1.29E-14	1.46E-14	2.30E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131474	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Alpha	1.26E-16	3.09E-15	6.88E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131474	Plant 6WH	10/21/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.35E-14	2.09E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131478	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Alpha	3.14E-15	5.98E-15	9.88E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131478	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Beta	3.34E-14	1.41E-14	1.65E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131479	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Alpha	6.96E-15	7.62E-15	1.05E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131479	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Beta	2.55E-14	1.40E-14	1.76E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131480	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Alpha	3.25E-15	6.20E-15	1.02E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131480	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Beta	5.37E-14	1.63E-14	1.71E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131481	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Alpha	1.45E-14	9.34E-15	9.88E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131481	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Beta	4.02E-14	1.47E-14	1.65E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131482	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Alpha	5.45E-15	6.85E-15	9.97E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131482	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Beta	3.92E-14	1.47E-14	1.67E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131483	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Alpha	9.03E-15	8.05E-15	1.01E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD131483	Plant 6WH	10/25/10	Gross Alpha/Beta	Gross Beta	3.36E-14	1.44E-14	1.70E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131484	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Alpha	4.32E-15	6.48E-15	1.00E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131484	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Beta	7.02E-15	1.14E-14	1.68E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131485	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Alpha	7.26E-15	7.11E-15	9.35E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131485	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Beta	2.14E-14	1.23E-14	1.57E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131486	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Alpha	7.23E-15	7.08E-15	9.32E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131486	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Beta	1.81E-14	1.19E-14	1.56E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131487	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Alpha	8.80E-15	7.84E-15	9.88E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131487	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Beta	1.51E-14	1.22E-14	1.65E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131488	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Alpha	8.96E-15	7.98E-15	1.01E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131488	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.22E-14	1.68E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131489	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Alpha	5.26E-15	6.61E-15	9.63E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131489	Plant 6WH	10/26/10	Gross Alpha/Beta	Gross Beta	6.10E-15	1.09E-14	1.61E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131490	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Alpha	-2.63E-16	4.49E-15	9.84E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131490	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.25E-14	1.65E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131491	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Alpha	8.58E-16	4.98E-15	9.75E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131491	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Beta	6.84E-15	1.11E-14	1.63E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131492	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Alpha	9.81E-15	8.06E-15	9.75E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131492	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Beta	1.56E-14	1.21E-14	1.63E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131493	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Alpha	6.01E-15	6.58E-15	9.09E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131493	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.12E-14	1.52E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131494	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Alpha	4.82E-15	6.05E-15	8.81E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131494	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Beta	1.23E-14	1.07E-14	1.48E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131495	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Alpha	8.47E-15	7.55E-15	9.51E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131495	Plant 6WH	10/27/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.28E-14	1.59E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131496	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Alpha	7.11E-15	6.96E-15	9.17E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131496	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.12E-14	1.53E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131497	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Alpha	1.77E-15	4.90E-15	8.74E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131497	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Beta	1.04E-14	1.04E-14	1.46E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131498	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Alpha	-2.44E-16	4.17E-15	9.13E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131498	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Beta	8.92E-15	1.07E-14	1.53E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131499	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Alpha	8.69E-16	5.05E-15	9.88E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131499	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Beta	1.03E-14	1.16E-14	1.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131500	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Alpha	1.99E-15	5.49E-15	9.80E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131500	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.17E-14	1.64E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131501	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Alpha	3.02E-15	5.76E-15	9.51E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131501	Plant 6WH	10/28/10	Gross Alpha/Beta	Gross Beta	1.13E-14	1.13E-14	1.59E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131502	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Alpha	9.60E-15	7.89E-15	8.87E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131502	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.21E-14	1.59E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131503	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.83E-15	9.28E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131503	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Beta	1.08E-14	1.09E-14	1.66E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131504	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Alpha	9.10E-15	8.09E-15	9.44E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131504	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.24E-14	1.69E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131505	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Alpha	3.97E-15	5.80E-15	8.14E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131505	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.02E-14	1.46E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131506	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Alpha	1.11E-15	4.93E-15	8.49E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131506	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Beta	1.41E-14	1.05E-14	1.52E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131507	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Alpha	3.42E-15	6.23E-15	9.28E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131507	Plant 6WH	11/01/10	Gross Alpha/Beta	Gross Beta	8.15E-15	1.06E-14	1.66E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131508	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Alpha	1.27E-14	9.74E-15	1.06E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131508	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Beta	3.19E-14	1.46E-14	1.89E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131509	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Alpha	9.59E-15	8.53E-15	9.95E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air

Table B-1. SLDS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD131509	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.22E-14	1.78E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131510	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Alpha	4.65E-15	6.78E-15	9.52E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131510	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.24E-14	1.70E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131511	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Alpha	7.13E-15	7.74E-15	9.82E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131511	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Beta	2.12E-14	1.27E-14	1.76E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131512	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Alpha	1.26E-16	5.60E-15	1.06E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131512	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Beta	1.91E-14	1.32E-14	1.89E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131513	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Alpha	4.92E-15	7.19E-15	1.01E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131513	Plant 6WH	11/02/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.25E-14	1.81E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131514	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Alpha	1.36E-14	9.25E-15	9.44E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131514	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.38E-14	1.69E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131515	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Alpha	8.87E-15	7.88E-15	9.20E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131515	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.31E-14	1.65E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131516	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Alpha	6.60E-15	7.16E-15	9.09E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131516	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Beta	2.03E-14	1.18E-14	1.63E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131517	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.27E-15	8.98E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131517	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Beta	3.48E-14	1.32E-14	1.61E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131518	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.65E-15	9.73E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131518	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Beta	3.36E-14	1.39E-14	1.74E-14	uCi/mL	=		SLDS (General Area) Perimeter Air
SLD131519	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Alpha	7.26E-15	7.07E-15	8.59E-15	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD131519	Plant 6WH	11/03/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.15E-14	1.54E-14	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD131520	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	6.20E-15	9.24E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD131520	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Beta	6.80E-15	1.04E-14	1.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132168	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Alpha	4.67E-15	6.81E-15	9.56E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132168	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Beta	1.18E-14	1.13E-14	1.71E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132169	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Alpha	6.82E-15	7.40E-15	9.40E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132169	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Beta	4.90E-15	1.03E-14	1.68E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132170	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	5.41E-15	9.32E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132170	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Beta	1.15E-14	1.10E-14	1.67E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD132171	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.47E-15	9.20E-15	uCi/mL	J	T04	SLDS (General Area) Perimeter Air
SLD132171	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Beta	9.40E-15	1.06E-14	1.65E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132172	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Alpha	4.77E-15	6.96E-15	9.77E-15	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air
SLD132172	Plant 6WH	11/04/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.16E-14	1.75E-14	uCi/mL	U	T04, T05	SLDS (General Area) Perimeter Air
SLD133641	6WH LOADOUT	12/30/10	Gross Alpha/Beta	Gross Beta	7.54E-15	1.19E-14	1.83E-14	uCi/mL	UJ	T06	SLDS (General Area) Perimeter Air

Table B-2. SLDS TLD (External Gamma Radiation) Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD122818	DA-1	04/05/10	Radiological	External gamma radiation	14.7	0	0.01	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122822	DA-1	07/07/10	Radiological	External gamma radiation	21.7	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122826	DA-1	10/05/10	Radiological	External gamma radiation	18.9	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD133414	DA-1	01/04/11	Radiological	External gamma radiation	19.9	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD133414-1	DA-1	01/04/11	Radiological	External gamma radiation	21.7	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122818-1	DA-1dup	04/05/10	Radiological	External gamma radiation	16.3	0	0.01	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122822-1	DA-1dup	07/07/10	Radiological	External gamma radiation	19.9	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122826-1	DA-1dup	10/05/10	Radiological	External gamma radiation	20	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122819	DA-2	04/05/10	Radiological	External gamma radiation	15.3	0	0.01	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122823	DA-2	07/07/10	Radiological	External gamma radiation	20.7	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122827	DA-2	10/05/10	Radiological	External gamma radiation	21.9	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD133415	DA-2	01/04/11	Radiological	External gamma radiation	19.9	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122820	DA-3	04/05/10	Radiological	External gamma radiation	12.9	0	0.01	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122824	DA-3	07/07/10	Radiological	External gamma radiation	17.8	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122828	DA-3	10/05/10	Radiological	External gamma radiation	17.8	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD133416	DA-3	01/04/11	Radiological	External gamma radiation	17.2	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122821	DA-6	04/05/10	Radiological	External gamma radiation	14.5	0	0.01	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122825	DA-6	07/07/10	Radiological	External gamma radiation	20.3	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD122829	DA-6	10/05/10	Radiological	External gamma radiation	20.1	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring
SLD133417	DA-6	01/04/11	Radiological	External gamma radiation	19.8	0	0.1	mrem	=		SLDS Air (TLDs)-Environmental Monitoring

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Table B-3. SLDS Radon-222 Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLD122874	DA-1	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	=		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD133482	DA-1	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD133482-1	DA-1 dup	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD122874-1	DA-1dup	07/07/10	Radiological	Radon-222	0.3	0.03	0.2	pCi/L	=		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD122875	DA-2	07/07/10	Radiological	Radon-222	0.3	0.03	0.2	pCi/L	=		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD133483	DA-2	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD122876	DA-3	07/07/10	Radiological	Radon-222	0.3	0.03	0.2	pCi/L	=		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD133484	DA-3	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD122877	DA-6	07/07/10	Radiological	Radon-222	0.3	0.03	0.2	pCi/L	=		SLDS Air (Alpha Tracks)-Environmental Monitoring
SLD133485	DA-6	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLDS Air (Alpha Tracks)-Environmental Monitoring

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APPENDIX C

STORM-WATER, WASTE-WATER AND EXCAVATION-WATER DATA
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Table C-1. First Quarter Self Monitoring Report for Excavation-Water Discharge at SLDS During CY2010

Parameter	Batch Number	Date of Discharge	Batch Results[a]	Amount Discharged (gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLDS-BK464	01/28/10 (6WH)	198 pCi/L	14,850	1.1E-05	3,000 pCi/L	0.08
Gross Beta			90 pCi/L		5.1E-06	N/A	
TH-228			<0.4 pCi/L		1.0E-08	2,000 pCi/L	
TH-230			1 pCi/L		5.1E-08	1,000 pCi/L	
TH-232			<0.2 pCi/L		4.8E-09	300 pCi/L	
Uranium (KPA)			234 pCi/L		1.3E-05	3,000 pCi/L	
RA-226			<0.5 pCi/L		1.5E-08	600 pCi/L	
RA-228[b]			<0.4 pCi/L		1.0E-08	600 pCi/L	
Total Suspended Solids			18 mg/L				
Gross Alpha (raw water)	SLDS-BK465	02/11/10 (6WH)	226 pCi/L	14,518	1.2E-05	3,000 pCi/L	0.10
Gross Beta			58 pCi/L		3.2E-06	N/A	
TH-228			<0.7 pCi/L		1.9E-08	2,000 pCi/L	
TH-230			<0.6 pCi/L		1.5E-08	1,000 pCi/L	
TH-232			<0.6 pCi/L		1.5E-08	300 pCi/L	
Uranium (KPA)			292 pCi/L		1.6E-05	3,000 pCi/L	
RA-226			<1.4 pCi/L		3.9E-08	600 pCi/L	
RA-228[b]			<0.7 pCi/L		1.9E-08	600 pCi/L	
Total Suspended Solids			5 mg/L				
Gross Alpha (raw water)	SLDS-BK466	03/11/10 (6WH)	262 pCi/L	13,186	1.3E-05	3,000 pCi/L	0.11
Gross Beta			124 pCi/L		6.2E-06	N/A	
TH-228			<0.4 pCi/L		1.0E-08	2,000 pCi/L	
TH-230			1.8 pCi/L		8.9E-08	1,000 pCi/L	
TH-232			0.3 pCi/L		1.4E-08	300 pCi/L	
Uranium (KPA)			315 pCi/L		1.6E-05	3,000 pCi/L	
RA-226			<2 pCi/L		5.3E-08	600 pCi/L	
RA-228[b]			<0.4 pCi/L		1.0E-08	600 pCi/L	
Total Suspended Solids			33 mg/L				

Total Activity Discharged in 1st Quarter of CY10 (Ci)		**Total Activity Discharged through 03/31/10 (Ci)**	
TH-228	4.0E-08	**TH-228**	4.0E-08
TH-230	1.6E-07	**TH-230**	1.6E-07
TH-232	3.4E-08	**TH-232**	3.4E-08
Uranium (KPA)	4.5E-05	**Uranium (KPA)**	4.5E-05
RA-226	1.1E-07	**RA-226**	1.1E-07
RA-228[b]	4.0E-08	**RA-228[2]**	4.0E-08

Total Volume Discharged in 1st Quarter of CY10 (gal)		**Total Volume Discharged through 03/31/10 (gal)**	
Gallons	42,554	**Gallons**	42,554

NOTES:

[a] Non detect sample results are converted to half the detection limit.

[b] Ra-228 assumed to be in equilibrium with Th-228

N/A--Not applicable

Table C-1. Second Quarter Self Monitoring Report for Excavation-Water Discharge at SLDS During CY2010

Parameter	Batch Number	Date of Discharge	Batch Results[a]	Amount Discharged (gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLDS-BK467	04/07/10 - 04/27/10 (6WH)	729 pCi/L	94,690	2.6E-04	3,000 pCi/L	0.33
Gross Beta			102 pCi/L		3.7E-05	N/A	
TH-228			<0.6 pCi/L		1.0E-07	2,000 pCi/L	
TH-230			0.5 pCi/L		1.8E-07	1,000 pCi/L	
TH-232			<0.4 pCi/L		7.7E-08	300 pCi/L	
Uranium (KPA)			993 pCi/L		3.6E-04	3,000 pCi/L	
RA-226			<2 pCi/L		3.6E-07	600 pCi/L	
RA-228[b]			<0.6 pCi/L		1.0E-07	600 pCi/L	
Total Suspended Solids			5 mg/L				
Gross Alpha (raw water)	SLDS-BK468	05/03/10 - 05/25/10 (6WH)	1142 pCi/L	203,255	8.8E-04	3,000 pCi/L	0.43
Gross Beta			266 pCi/L		2.0E-04	N/A	
TH-228			<0.7 pCi/L		2.5E-07	2,000 pCi/L	
TH-230			2 pCi/L		1.5E-06	1,000 pCi/L	
TH-232			<0.4 pCi/L		1.5E-07	300 pCi/L	
Uranium (KPA)			1282 pCi/L		9.9E-04	3,000 pCi/L	
RA-226			<2 pCi/L		8.3E-07	600 pCi/L	
RA-228[b]			<0.7 pCi/L		2.5E-07	600 pCi/L	
Total Suspended Solids			22 mg/L				
Gross Alpha (raw water)	SLDS-BK469	06/02/10 - 06/30/10 (6WH)	552 pCi/L	177,329	3.7E-04	3,000 pCi/L	0.23
Gross Beta			114 pCi/L		7.7E-05	N/A	
TH-228			<1 pCi/L		3.4E-07	2,000 pCi/L	
TH-230			3 pCi/L		2.0E-06	1,000 pCi/L	
TH-232			<1 pCi/L		3.4E-07	300 pCi/L	
Uranium (KPA)			678 pCi/L		4.6E-04	3,000 pCi/L	
RA-226			<2 pCi/L		5.9E-07	600 pCi/L	
RA-228[b]			<1 pCi/L		3.4E-07	600 pCi/L	
Total Suspended Solids			14 mg/L				

Total Activity Discharged in 2nd Quarter of CY10 (Ci)

TH-228	7.0E-07
TH-230	3.7E-06
TH-232	5.7E-07
Uranium (KPA)	1.8E-03
RA-226	1.8E-06
RA-228[b]	7.0E-07

Total Activity Discharged through 06/30/10 (Ci)

TH-228	7.4E-07
TH-230	3.9E-06
TH-232	6.0E-07
Uranium (KPA)	1.8E-03
RA-226	1.9E-06
RA-228[b]	7.4E-07

Total Volume Discharged in 2nd Quarter of CY10 (gal)

Gallons	475,274

Total Volume Discharged through 06/30/10 (gal)

Gallons	517,828

NOTES:

[a] Non detect sample results are converted to half the detection limit.

[b] Ra-228 assumed to be in equilibrium with Th-228

N/A--Not applicable

Table C-1. Third Quarter Self Monitoring Report for Excavation-Water Discharge at SLDS During CY2010

Parameter	Batch Number	Date of Discharge	Batch Results[a]	Amount Discharged (gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLDS-BK470	07/07/10 - 07/30/10 (6WH)	287 pCi/L	680,289	7.4E-04	3,000 pCi/L	0.12
Gross Beta			153 pCi/L		3.9E-04	N/A	
TH-228			<0.7 pCi/L		9.0E-07	2,000 pCi/L	
TH-230			5 pCi/L		1.3E-05	1,000 pCi/L	
TH-232			<0.5 pCi/L		6.7E-07	300 pCi/L	
Uranium (KPA)			349 pCi/L		9.0E-04	3,000 pCi/L	
RA-226			<2 pCi/L		2.4E-06	10 pCi/L	
RA-228[b]			<0.7 pCi/L		9.0E-07	30 pCi/L	
Total Suspended Solids			40 mg/L				
Gross Alpha (raw water)	SLDS-BK471	08/02/10 - 08/30/10 (6WH)	243 pCi/L	454,018	4.2E-04	3,000 pCi/L	0.11
Gross Beta			117 pCi/L		2.0E-04	N/A	
TH-228			<0.6 pCi/L		5.1E-07	2,000 pCi/L	
TH-230			2 pCi/L		3.4E-06	1,000 pCi/L	
TH-232			<0.4 pCi/L		3.3E-07	300 pCi/L	
Uranium (KPA)			299 pCi/L		5.1E-04	3,000 pCi/L	
RA-226			<3 pCi/L		2.3E-06	10 pCi/L	
RA-228[b]			<0.6 pCi/L		5.1E-07	30 pCi/L	
Total Suspended Solids			25 mg/L				
Gross Alpha (raw water)	SLDS-BK472	09/01/10 - 09/29/10 (6WH)	221 pCi/L	201,719	1.7E-04	3,000 pCi/L	0.09
Gross Beta			81 pCi/L		6.2E-05	N/A	
TH-228			<0.5 pCi/L		1.9E-07	2,000 pCi/L	
TH-230			0.6 pCi/L		4.6E-07	1,000 pCi/L	
TH-232			<0.5 pCi/L		1.8E-07	300 pCi/L	
Uranium (KPA)			270 pCi/L		2.1E-04	3,000 pCi/L	
RA-226			<2 pCi/L		8.9E-07	10 pCi/L	
RA-228[b]			<0.5 pCi/L		1.9E-07	30 pCi/L	
Total Suspended Solids			3 mg/L				

Total Activity Discharged in 3rd Quarter of CY10 (Ci)		**Total Activity Discharged through 09/30/10 (Ci)**	
TH-228	1.6E-06	**TH-228**	2.3E-06
TH-230	1.7E-05	**TH-230**	2.1E-05
TH-232	1.2E-06	**TH-232**	1.8E-06
Uranium (KPA)	1.6E-03	**Uranium (KPA)**	3.5E-03
RA-226	5.6E-06	**RA-226**	7.5E-06
RA-228[b]	1.6E-06	**RA-228[b]**	2.3E-06

Total Volume Discharged in 3rd Quarter of CY10 (gal)		**Total Volume Discharged through 09/30/10 (gal)**	
Gallons	1,336,026	**Gallons**	1,853,854

NOTES:

[a] Non detect sample results are converted to half the detection limit.

[b] Ra-228 assumed to be in equilibrium with Th-228

N/A--Not applicable

Table C-1. Fourth Quarter Self Monitoring Report for Excavation-Water Discharge at SLDS During CY2010

Parameter	Batch Number	Date of Discharge	Batch Results[a]	Amount Discharged (gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLDS-BK473	10/11/10 - 10/25/10 (6WH)	272 pCi/L	54,450	5.6E-05	3,000 pCi/L	0.11
Gross Beta			158 pCi/L		3.3E-05	N/A	
TH-228			<0.4 pCi/L		4.3E-08	2,000 pCi/L	
TH-230			7 pCi/L		1.4E-06	1,000 pCi/L	
TH-232			<0.3 pCi/L		3.4E-08	300 pCi/L	
Uranium (KPA)			294 pCi/L		6.1E-05	3,000 pCi/L	
RA-226			2.6 pCi/L		5.3E-07	600 pCi/L	
RA-228[b]			<0.4 pCi/L		4.3E-08	600 pCi/L	
Total Suspended Solids			79 mg/L				
Gross Alpha (raw water)	SLDS-BK474	11/02/10 - 11/29/10 (6WH)	66 pCi/L	51,068	1.3E-05	3,000 pCi/L	0.03
Gross Beta			28 pCi/L		5.4E-06	N/A	
TH-228			<0.5 pCi/L		5.0E-08	2,000 pCi/L	
TH-230			1 pCi/L		1.9E-07	1,000 pCi/L	
TH-232			<0.2 pCi/L		1.8E-08	300 pCi/L	
Uranium (KPA)			78 pCi/L		1.5E-05	3,000 pCi/L	
RA-226			<2 pCi/L		1.9E-07	600 pCi/L	
RA-228[b]			<0.5 pCi/L		5.0E-08	600 pCi/L	
Total Suspended Solids			17 mg/L				
Gross Alpha (raw water)	SLDS-BK475	12/30/10 (6WH)	30.3 pCi/L	10,856	1.2E-06	3,000 pCi/L	0.02
Gross Beta			<13.6 pCi/L		2.8E-07	N/A	
TH-228			<0.6 pCi/L		1.2E-08	2,000 pCi/L	
TH-230			3 pCi/L		1.2E-07	1,000 pCi/L	
TH-232			<0.2 pCi/L		3.7E-09	300 pCi/L	
Uranium (KPA)			29 pCi/L		1.2E-06	3,000 pCi/L	
RA-226			<2 pCi/L		4.1E-08	600 pCi/L	
RA-228[b]			<0.6 pCi/L		1.2E-08	600 pCi/L	
Total Suspended Solids			3.4 mg/L				

Total Activity Discharged in 4th Quarter of CY10 (Ci)		**Total Activity Discharged through 12/31/10 (Ci)**	
TH-228	1.1E-07	**TH-228**	2.4E-06
TH-230	1.7E-06	**TH-230**	2.2E-05
TH-232	5.6E-08	**TH-232**	1.8E-06
Uranium (KPA)	7.7E-05	**Uranium (KPA)**	3.5E-03
RA-226	7.6E-07	**RA-226**	8.2E-06
RA-228[b]	1.1E-07	**RA-228[b]**	2.4E-06

Total Volume Discharged in 4th Quarter of CY10 (gal)		**Total Volume Discharged through 12/31/10 (gal)**	
Gallons	116,374	**Gallons**	1,970,228

NOTES:

[a] Non detect sample results are converted to half the detection limit.

[b] Ra-228 assumed to be in equilibrium with Th-228

N/A - Not applicable

APPENDIX D

GROUND-WATER FIELD PARAMETER DATA FOR CY 2010, ANALYTICAL DATA RESULTS FOR CY 2010
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Table D-1. Ground-Water Monitoring
First Quarter 2010 - Field Parameters for SLDS

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 03/10/10
SLDS	B16W06D	---	---	---	---	---	---	---	---	---	---	27.13
SLDS	B16W06S	---	---	---	---	---	---	---	---	---	---	28.98
SLDS	B16W07D	---	---	---	---	---	---	---	---	---	---	29.96
SLDS	B16W08D	---	---	---	---	---	---	---	---	---	---	29.89
SLDS	B16W08S	---	---	---	---	---	---	---	---	---	---	27.84
SLDS	B16W09D	---	---	---	---	---	---	---	---	---	---	26.2
SLDS	B16W12S	---	---	---	---	---	---	---	---	---	---	15.39
SLDS	DW14	---	---	---	---	---	---	---	---	---	---	---
SLDS	DW15	---	---	---	---	---	---	---	---	---	---	31.95
SLDS	DW16	03/10/10	250	8500	6.36	0.148	185	4.42	16	21	27.29	27.29
SLDS	DW17	---	---	---	---	---	---	---	---	---	---	25.53
SLDS	DW18	---	---	---	---	---	---	---	---	---	---	30.18
SLDS	DW19	---	---	---	---	---	---	---	---	---	---	28.14
SLDS	DW21	---	---	---	---	---	---	---	---	---	---	10.33
SLDS	DW22R	---	---	---	---	---	---	---	---	---	---	28.81

--- monitoring well was not sampled during this event.

Table D-1. Ground-Water Monitoring
Second Quarter 2010 - Field Parameters for SLDS

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 05/26/10
SLDS	B16W06D	---	---	---	---	---	---	---	---	---	---	10.35
SLDS	B16W06S	05/26/10	100	1500	6.63	0.214	219	5.09	17.8	-132	13.91	13.61
SLDS	B16W07D	---	---	---	---	---	---	---	---	---	---	12.50
SLDS	B16W08D	---	---	---	---	---	---	---	---	---	---	12.61
SLDS	B16W08S	---	---	---	---	---	---	---	---	---	---	11.33
SLDS	B16W09D	---	---	---	---	---	---	---	---	---	---	8.78
SLDS	B16W12S	---	---	---	---	---	---	---	---	---	---	12.15
SLDS	DW14	---	---	---	---	---	---	---	---	---	---	---
SLDS	DW15	---	---	---	---	---	---	---	---	---	---	14.09
SLDS	DW16	---	---	---	---	---	---	---	---	---	---	9.44
SLDS	DW17	---	---	---	---	---	---	---	---	---	---	8.00
SLDS	DW18	05/26/10	150	2800	6.71	0.176	246	6.32	16.7	-122	14.58	14.58
SLDS	DW19	05/26/10	100	1800	6.47	0.164	90	5.07	19.1	-85	10.64	10.64
SLDS	DW21	---	---	---	---	---	---	---	---	---	---	7.88
SLDS	DW22R	---	---	---	---	---	---	---	---	---	---	11.87

--- monitoring well was not sampled during this event.

Table D-1. Ground-Water Monitoring
Third Quarter 2010 - Field Parameters for SLDS

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 09/16/2010
SLDS	B16W06D	---	---	---	---	---	---	---	---	---	---	26.46
SLDS	B16W06S	---	---	---	---	---	---	---	---	---	---	26.46
SLDS	B16W07D	---	---	---	---	---	---	---	---	---	---	28.61
SLDS	B16W08D	---	---	---	---	---	---	---	---	---	---	28.88
SLDS	B16W08S	---	---	---	---	---	---	---	---	---	---	23.95
SLDS	B16W09D	---	---	---	---	---	---	---	---	---	---	24.13
SLDS	B16W12S	---	---	---	---	---	---	---	---	---	---	12.68
SLDS	DW14	---	---	---	---	---	---	---	---	---	---	17.40
SLDS	DW15	---	---	---	---	---	---	---	---	---	---	29.78
SLDS	DW16	---	---	---	---	---	---	---	---	---	---	25.43
SLDS	DW17	---	---	---	---	---	---	---	---	---	---	24.25
SLDS	DW18	---	---	---	---	---	---	---	---	---	---	30.20
SLDS	DW19	---	---	---	---	---	---	---	---	---	---	26.22
SLDS	DW21	---	---	---	---	---	---	---	---	---	---	7.60
SLDS	DW22R	---	---	---	---	---	---	---	---	---	---	27.32

--- monitoring well was not sampled during this event.

Table D-1. Ground-Water Monitoring
Fourth Quarter 2010 - Field Parameters for SLDS

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 12/20/10
SLDS	B16W06D	---	---	---	---	---	---	---	---	---	---	35.77
SLDS	B16W06S	12/20/10	100	2100	6.77	0.2	21.2	0.59	14.3	-152	34.65	34.65
SLDS	B16W07D	---	---	---	---	---	---	---	---	---	---	37.70
SLDS	B16W08D	12/20/10	280	4200	6.79	0.19	10.5	1.02	14.8	-130	38.11	38.11
SLDS	B16W08S	---	---	---	---	---	---	---	---	---	---	31.80
SLDS	B16W09D	12/22/10	290	5220	7.93	1.54	21.8	1.81	15.7	-161	33.42	33.42
SLDS	B16W12S	12/20/10	85	1530	6.91	0.15	31.6	5.69	14.2	214	16.95	16.56
SLDS	DW14	12/22/10	150	3100	6.37	5.01	12.1	4.25	15.86	-62	27.36	27.21
SLDS	DW15	---	---	---	---	---	---	---	---	---	---	38.84
SLDS	DW16	---	---	---	---	---	---	---	---	---	---	29.65
SLDS	DW17	12/21/10	290	4350	6.77	0.16	>999	1.33	15.2	160	33.5	33.50
SLDS	DW18	12/21/10	300	5400	6.79	0.18	35.2	0.52	14.4	-152	39.51	39.51
SLDS	DW19	---	---	---	---	---	---	---	---	---	---	35.29
SLDS	DW21	---	---	---	---	---	---	---	---	---	---	9.40
SLDS	DW22R	---	---	---	---	---	---	---	---	---	---	36.39

--- monitoring well was not sampled during this event.

Table D-2. CY 2010 Ground-Water Sampling Data for the SLDS - Unfiltered

Site: SLDS										
Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code(s)
SLD125893	DW16	03/10/10	SW846 6010B	Arsenic	36.7		2	ug/L	=	
SLD125893	DW16	03/10/10	SW846 6010B	Cadmium	1.5		0.91	ug/L	=	
SLD127679	B16W06S	05/26/10	SW846 6010B	Arsenic	214		2	ug/L	=	
SLD127679	B16W06S	05/26/10	SW846 6010B	Cadmium	2		0.91	ug/L	=	
SLD127680	DW18	05/26/10	SW846 6010B	Arsenic	81.5		2	ug/L	=	
SLD127680	DW18	05/26/10	SW846 6010B	Cadmium	1.4		0.91	ug/L	=	
SLD127680	DW18	05/26/10	ML-006	Radium-226	0.724	0.854	1.24	pCi/L	UJ	T06
SLD127680	DW18	05/26/10	ML-005	Thorium-228	0.291	0.299	0.428	pCi/L	UJ	T06
SLD127680	DW18	05/26/10	ML-005	Thorium-230	0.611	0.401	0.349	pCi/L	J	T04
SLD127680	DW18	05/26/10	ML-005	Thorium-232	0.145	0.21	0.348	pCi/L	UJ	T06
SLD127680	DW18	05/26/10	ML-015	Uranium-234	0.413	0.428	0.55	pCi/L	UJ	T06
SLD127680	DW18	05/26/10	ML-015	Uranium-235	0.113	0.227	0.307	pCi/L	UJ	T06
SLD127680	DW18	05/26/10	ML-015	Uranium-238	0.183	0.261	0.247	pCi/L	UJ	T06
SLD127681	DW19	05/26/10	ML-006	Radium-226	0.315	0.815	1.77	pCi/L	UJ	T06
SLD127681	DW19	05/26/10	ML-005	Thorium-228	0.164	0.286	0.55	pCi/L	UJ	T06
SLD127681	DW19	05/26/10	ML-005	Thorium-230	0.36	0.369	0.55	pCi/L	UJ	T06
SLD127681	DW19	05/26/10	ML-005	Thorium-232	-0.0327	0.0656	0.392	pCi/L	UJ	T06
SLD127681	DW19	05/26/10	ML-015	Uranium-234	20.8	4.9	0.25	pCi/L	=	
SLD127681	DW19	05/26/10	ML-015	Uranium-235	1.37	0.832	0.309	pCi/L	J	T04
SLD127681	DW19	05/26/10	ML-015	Uranium-238	20.5	4.86	0.551	pCi/L	=	
SLD133103	B16W06S	12/20/10	SW846 6010B	Arsenic	177		2.7	ug/L	=	
SLD133103	B16W06S	12/20/10	SW846 6010B	Cadmium	0.91		0.91	ug/L	U	
SLD133102	B16W08D	12/20/10	SW846 6010B	Arsenic	28.6		2.7	ug/L	=	
SLD133102-1	B16W08D	12/20/10	SW846 6010B	Arsenic	27.2		2.7	ug/L	=	
SLD133102-2	B16W08D	12/20/10	SW846 6020	Arsenic	28		1.5	ug/L	=	
SLD133102	B16W08D	12/20/10	SW846 6010B	Cadmium	0.91		0.91	ug/L	U	
SLD133102-1	B16W08D	12/20/10	SW846 6010B	Cadmium	0.91		0.91	ug/L	U	
SLD133102-2	B16W08D	12/20/10	SW846 6020	Cadmium	1		1	ug/L	U	
SLD133102	B16W08D	12/20/10	ML-006	Radium-226	0.513	0.96	1.89	pCi/L	UJ	T06
SLD133102-1	B16W08D	12/20/10	ML-006	Radium-226	0.562	0.811	1.35	pCi/L	UJ	T06
SLD133102-2	B16W08D	12/20/10	SW846 9315 MODL	Radium-226	0.34	0.16	0.17	pCi/L	=	
SLD133102-2	B16W08D	12/20/10	SW846 9320 MODL	Radium-228	1	0.32	0.39	pCi/L	=	
SLD133102	B16W08D	12/20/10	ML-005	Thorium-228	0.0324	0.145	0.389	pCi/L	UJ	T06
SLD133102-1	B16W08D	12/20/10	ML-005	Thorium-228	0.424	0.327	0.164	pCi/L	J	T04
SLD133102-2	B16W08D	12/20/10	EML A-01-R MOD	Thorium-228	0.07	0.15	0.27	pCi/L	UJ	T06
SLD133102	B16W08D	12/20/10	ML-005	Thorium-230	0.649	0.422	0.176	pCi/L	J	F01, T04
SLD133102-1	B16W08D	12/20/10	ML-005	Thorium-230	0.334	0.307	0.364	pCi/L	U	T04, T05
SLD133102-2	B16W08D	12/20/10	EML A-01-R MOD	Thorium-230	0.2	0.14	0.11	pCi/L	J	F01, T04
SLD133102	B16W08D	12/20/10	ML-005	Thorium-232	0	0	0.176	pCi/L	U	
SLD133102-1	B16W08D	12/20/10	ML-005	Thorium-232	0.182	0.212	0.164	pCi/L	J	T02
SLD133102-2	B16W08D	12/20/10	EML A-01-R MOD	Thorium-232	-0.009	0.013	0.12	pCi/L	UJ	T06
SLD133102	B16W08D	12/20/10	ML-015	Uranium-234	0.196	0.284	0.469	pCi/L	UJ	T06
SLD133102-1	B16W08D	12/20/10	ML-015	Uranium-234	0.179	0.314	0.603	pCi/L	UJ	T06
SLD133102-2	B16W08D	12/20/10	EML A-01-R MOD	Uranium-234	0.029	0.059	0.11	pCi/L	UJ	T06
SLD133102	B16W08D	12/20/10	ML-015	Uranium-235	0	0	0.262	pCi/L	U	
SLD133102-1	B16W08D	12/20/10	ML-015	Uranium-235	-0.0442	0.0888	0.531	pCi/L	UJ	T06
SLD133102-2	B16W08D	12/20/10	EML A-01-R MOD	Uranium-235	-0.0047	0.0094	0.11	pCi/L	UJ	T06
SLD133102	B16W08D	12/20/10	ML-015	Uranium-238	0.0779	0.157	0.211	pCi/L	UJ	T06
SLD133102-1	B16W08D	12/20/10	ML-015	Uranium-238	0.214	0.25	0.194	pCi/L	J	T02
SLD133102-2	B16W08D	12/20/10	EML A-01-R MOD	Uranium-238	0.029	0.058	0.11	pCi/L	UJ	T06
SLD133105	B16W12S	12/20/10	SW846 6010B	Arsenic	2.7		2.7	ug/L	U	
SLD133105	B16W12S	12/20/10	SW846 6010B	Cadmium	2.7		0.91	ug/L	=	
SLD133105	B16W12S	12/20/10	ML-006	Radium-226	-0.239	0.339	1.76	pCi/L	UJ	T06
SLD133105	B16W12S	12/20/10	ML-005	Thorium-228	0.44	0.371	0.406	pCi/L	J	T04
SLD133105	B16W12S	12/20/10	ML-005	Thorium-230	0.373	0.382	0.569	pCi/L	UJ	T06
SLD133105	B16W12S	12/20/10	ML-005	Thorium-232	0.169	0.245	0.406	pCi/L	UJ	T06
SLD133105	B16W12S	12/20/10	ML-015	Uranium-234	1.95	0.785	0.176	pCi/L	=	
SLD133105	B16W12S	12/20/10	ML-015	Uranium-235	0.0801	0.161	0.217	pCi/L	UJ	T06
SLD133105	B16W12S	12/20/10	ML-015	Uranium-238	2.26	0.856	0.175	pCi/L	=	
SLD133107	DW15	12/20/10	SW846 6010B	Arsenic	22.3		2.7	ug/L	=	
SLD133107	DW15	12/20/10	SW846 6010B	Cadmium	0.91		0.91	ug/L	U	
SLD133107	DW15	12/20/10	ML-006	Radium-226	0.554	0.8	1.33	pCi/L	UJ	T06
SLD133107	DW15	12/20/10	ML-005	Thorium-228	0.388	0.328	0.408	pCi/L	U	T04, T05
SLD133107	DW15	12/20/10	ML-005	Thorium-230	0.555	0.36	0.15	pCi/L	J	F01, T04
SLD133107	DW15	12/20/10	ML-005	Thorium-232	0.0277	0.124	0.332	pCi/L	UJ	T06
SLD133107	DW15	12/20/10	ML-015	Uranium-234	0.434	0.367	0.4	pCi/L	J	T04
SLD133107	DW15	12/20/10	ML-015	Uranium-235	-0.0412	0.0826	0.494	pCi/L	UJ	T06
SLD133107	DW15	12/20/10	ML-015	Uranium-238	0.399	0.333	0.18	pCi/L	J	T04
SLD133108	DW17	12/21/10	SW846 6010B	Arsenic	4.5		2.7	ug/L	=	
SLD133108	DW17	12/21/10	SW846 6010B	Cadmium	12.1		0.91	ug/L	=	
SLD133109	DW18	12/21/10	ML-006	Radium-226	0.3	0.6	0.812	pCi/L	UJ	T06
SLD133109	DW18	12/21/10	ML-005	Thorium-228	0.196	0.228	0.177	pCi/L	J	T02
SLD133109	DW18	12/21/10	ML-005	Thorium-230	0.294	0.302	0.391	pCi/L	UJ	T06
SLD133109	DW18	12/21/10	ML-005	Thorium-232	0	0	0.177	pCi/L	U	
SLD133109	DW18	12/21/10	ML-015	Uranium-234	0.309	0.319	0.412	pCi/L	UJ	T06
SLD133109	DW18	12/21/10	ML-015	Uranium-235	0	0	0.23	pCi/L	U	
SLD133109	DW18	12/21/10	ML-015	Uranium-238	0.342	0.312	0.185	pCi/L	J	T04
SLD133104	B16W09D	12/22/10	SW846 6010B	Arsenic	185		2.7	ug/L	=	
SLD133104	B16W09D	12/22/10	SW846 6010B	Cadmium	5		0.91	ug/L	=	
SLD133106	DW14	12/22/10	SW846 6010B	Arsenic	19.5		2.7	ug/L	=	
SLD133106	DW14	12/22/10	SW846 6010B	Cadmium	2.2		0.91	ug/L	=	

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APPENDIX E

DOSE ASSESSMENT ASSUMPTIONS

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DOSE ASSESSMENT ASSUMPTIONS

A. Dose from the SLDS to a Maximally Exposed Individual

An off-site, worker-based receptor is the most realistic choice to represent the hypothetical maximally exposed individual because of the proximity of the receptor, approximately 50 meters southeast of the Mallinckrodt fence line (Thomas & Proetz Lumber Company VP [DT-10]), and because of the time the individual will spend at this location. Thus, a realistic assessment of dose can be performed using conservative assumptions of occupancy rate and distance from the source.

The following dose assessment is for a maximally exposed individual who works full-time (2,000 hours per year) at a location approximately 50 meters southwest of the external gamma and radon monitoring location and 160 to 340 meters from the SLDS excavation areas.

1. Airborne Radioactive Particulates

An EDE of <0.1 mrem/yr to the receptor was calculated by using activity fractions to determine a source term, and then combining the dose results for the Plant 6 and BNSF Railroad VP (DT-12) properties. The USEPA CAP88-PC modeling code was used to calculate dose to the receptor at 160 to 340 meters from the SLDS excavation areas (SAIC 2011). Figure A-1 presents the distances and directions of the maximally exposed receptor from the excavated areas. Details related to calculation of EDE for the maximally exposed receptor are presented in Appendix A.

2. External Gamma Pathway

Because station DA-2 was the closest TLD to the receptor, the TLD results from this location were used for the dose calculations. The station DA-2 TLD measured an annual exposure, above background, of 8 mrem/yr, based on 8,760 hours of continuous detector exposure. The EDE due to gamma exposure for the maximally exposed individual is estimated by assuming that the site approximates a line source with a source strength (H_1) that is the average of the TLD measurements between the source and the receptor (Cember 1996).

$$H_1 = \frac{(8)\,\text{mrem/yr}}{1} = 8\ \text{mrem/yr}$$

Based on 100 percent occupancy rate, the exposure rate (H_2) to the receptor was calculated as follows:

$$H_2 = H_1 \times \frac{h_1}{h_2} \times \frac{\tan^{-1}(L/h_2)}{\tan^{-1}(L/h_1)}$$

$$H_2 = 0.2\ \text{mrem/yr}$$

where:

- H_2 = exposure rate to the receptor
- H_1 = exposure rate to the TLDs
- h_2 = distance from the source to the receptor = 50 meters
- h_1 = distance from the source to the TLDs = 1.6 meters
- L = average distance from centerline of the line source (H_1) to the end of the line source = 150 meters

The actual dose to the maximally exposed individual who is only present during a normal work year is calculated as follows:

$$H_{MEI} = H_2 \times \frac{2000 \text{ hours/work year}}{8760 \text{ hours/total year}}$$

$$H_{MEI} = <0.1 \text{ mrem/yr}$$

3. Airborne Radon Pathway

Data collected from station DA-2 was used to determine dose due to radon and progeny. Appendix D presents the radon results at all stations.

Station DA-2 ATDs measured above background annual exposures of 0.05 pCi/L based on 8,760 hours of continuous detector exposure. Exposure to the receptor from radon (and progeny) was estimated using a dispersion factor (C_2) and the average ATD monitoring data (S_1) at the site perimeter between the source and the receptor (SAIC 2011).

The average of ATD measurement at the site perimeter (S_1) was calculated as follows:

$$S_1 = 0.05 \text{ pCi/L}$$

The actual radon exposure dose to the hypothetical maximally exposed individual was calculated as follows:

$$S_{MEI} = S_1 \times F \times DCF \times T \times C_1 \times C_2$$

$$S_{MEI} = 0.05 \text{pCi/L} \times 0.0005 \frac{\text{WL}}{\text{pCi/L}} \times 1250 \frac{\text{mrem}}{\text{WLM}} \times \frac{2000 hrs}{yr} \; x \; \frac{1 \text{month}}{170 \text{ hrs}} \times 0.14 = < 0.1 \text{ mrem/yr}$$

where:

S_{MEI} = Radon exposure to the hypothetical maximally exposed individual.

S_1 = Fence line average of ATD measurements between source and receptor.

F = Equilibrium fraction of 0.05 WL per 100 pCi/L (DOE 1998).

DCF = Dose Conversion Factor (USEPA 1989) = 1250 mrem/WLM.

T = Exposure time for the hypothetical maximally exposed receptor.

C_1 = Occupancy factor constant = 1 month per 170 hours.

C_2 = Constant derived using CAP-88PC Version 2, the Lambert Airport wind file (assuming a distance of 50 meters), and an impacted surface area of 1,830 m^2. Calculation assumes a 1 Ci/yr radon release rate and then ratios the concentrations at 1 meters and 50 meters to determine the constant.

WL = working level (concentration unit).

WLM = working level month (exposure unit).

4. Total Effective Dose Equivalent (TEDE)

TEDE = CEDE (airborne particulates) + H_{MEI} (external gamma) + S_{MEI} (airborne radon)

TEDE = <0.1 mrem/yr + <0.1 mrem/yr + <0.1 mrem/yr = 0.2 mrem/yr

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