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Department of Energy
Field Office, Oak Ridge
P.O. Box 2001
Oak Ridge, Tennessee 37831—8723

May 13, 1993

Mr. Dan Wall
United States Environmental Protection Agency
Region VII
726 Minnesota Avenue
Kansas City, Kansas 66101

Attention: Mr. Dan Wall

Subject: Contract DE-AC05-91OR21950
MISSOURI - EPA DRAFT REMEDIAL INVESTIGATION (RI)
ADDENDUM REPORT FOR THE ST. LOUIS SITE, APRIL, 1993

Dear Mr. Wall:

Enclosed are 2 copies of the RI Addendum Report for the St. Louis site.

The RI Addendum Report is a supplement to the RI Report (BNI, January 1992) and contains the results from investigative activities conducted pursuant to the St. Louis site Field Sampling Plan (BNI, December 1992) as well as the results from past investigations at the St. Louis site.

The RI Addendum Report provides graphical presentations of the data for each of the three sites (SLDS, SLAPS, and HISS) and Coldwater Creek. Both an aerial view and block diagram of radiological contamination are presented for each of the sites. The block diagrams are a slice through the site at a specific set of coordinates to provide an optimized view of the vertical extent of contamination. Tables containing the corresponding data depicted on the figures are contained in Section 3 of the report.

A review of comment letters was performed to ensure all comments were either previously responded to, are incorporated into the RI Addendum Report, or are addressed in this transmittal letter, as appropriate.

A few specific comments not directly addressed by the RI Addendum are responded to here:

1. EPA requested, in their approval letter for the RI Report (February 1992), clarification on whether any samples analyzed using gas chromatography (GC) were not reanalyzed by gas chromatography coupled with mass spectroscopy (GC/MS).

The historical results of volatile and semivolatile organic analyses from the ball field report (BNI, February 1989) were first screened using GC. All samples that resulted in GC peaks were then analyzed by GC/MS and the GC/MS results were reported.

2. In the EPA letter on the RI Report (January 1992), an inquiry was made on the collection of other types of data (referred to in a 1985 well inspection report) that were not included in the RI Report (e.g., boil-down tests and sieve analysis data). Geotechnical data has historically been reported in the RI, Work Plan, and specific characterization reports. The 1985 well inspection report inquired about was designed to provide well installation data and not sample analysis results. Permeabilities reported in the 1985 report are summarized in Appendix D Table D of the RI Report. No draw down tests were conducted during the investigation. Grain size distributions, inadvertently omitted from the RI Report, are provided as Attachments 1, 2 and 3 to this transmittal letter. These three curves actually represent four wells. HISS 10 and HISS 12 grain size distributions are provided in Attachments 1 and 2 respectively. Samples from HISS 15 and HISS 11 were combined for the Attachment 3 curve.

3. A request was made in the EPA approval letter for the RI Report (February 1992) for clarification on a discrepancy between the RI Report and the 1991 ORNL Mobile Scanning Survey Report. EPA felt that the RI Report had an apparent discrepancy due to the way Section 3.9 of the report was written. It should be noted that the two paragraphs in the RI Report text refer to two separate surveys. The first survey was a DOE survey activity that involved the actual collection of soil samples from the intersections between HISS and West Lake Landfill. This survey was totally independent of the ORNL survey discussed in the second paragraph of the text. The results of the ORNL survey only found three anomalous readings from the mobile scanning survey, all attributed to causes other than residual contamination from MED/AEC activities. The results of these two surveys actually agree with each other; the ORNL survey detected no gross contamination along the intersection, and the DOE survey results indicated that only 2 out of 231 samples were above the DOE criteria for thorium-230.

The results for all of the analyses listed in the nine objectives of the FSP are reported in the RI Addendum Report with the exception of one surface sample at SLDS: sample identification - Y12601. Radionuclide data resulted for sample location identification number 126 located next to Plant No. 7W, with the corresponding sample identification of Y12601, have not been received from the laboratory. These results will be forwarded once they are received and validated.

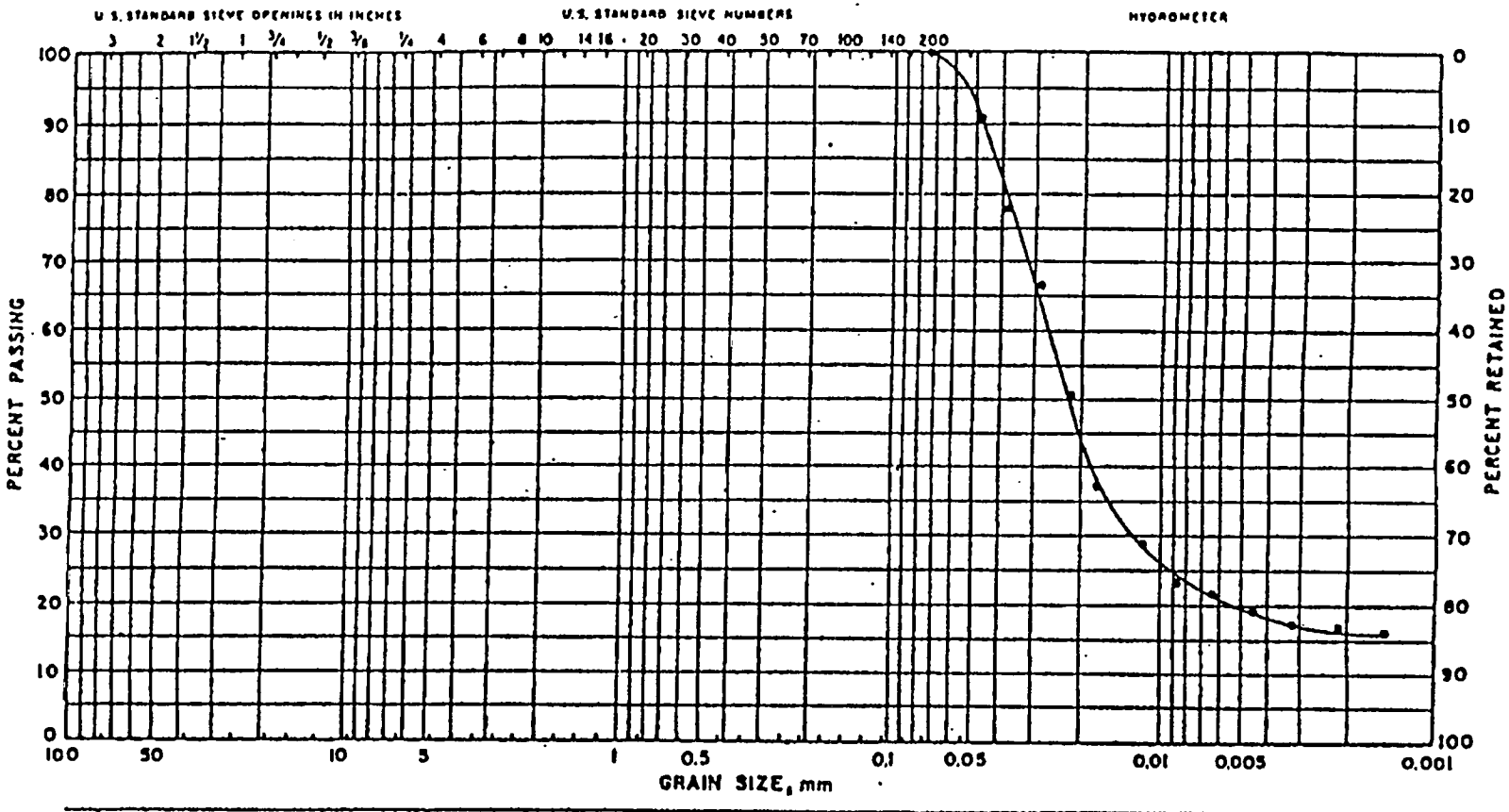
Sincerely,

David G. Adler, Missouri Site Manager
Former Sites Restoration Division

Enclosure

cc: David Bedan
Herb Hickman

PARTICLE SIZE ANALYSIS



JOB NO. 04-1979 PROJECT Bechtel, Hazelwood Interim Storage Site

CURVE	BORING	SAMPLE	DEPTH, ft	DESCRIPTION
1	HISS-10	5	23.5-25.0	Gray-Blue Silty CLAY, CL

ATTACHMENT 1
1985 GEOTECHNICAL DATA

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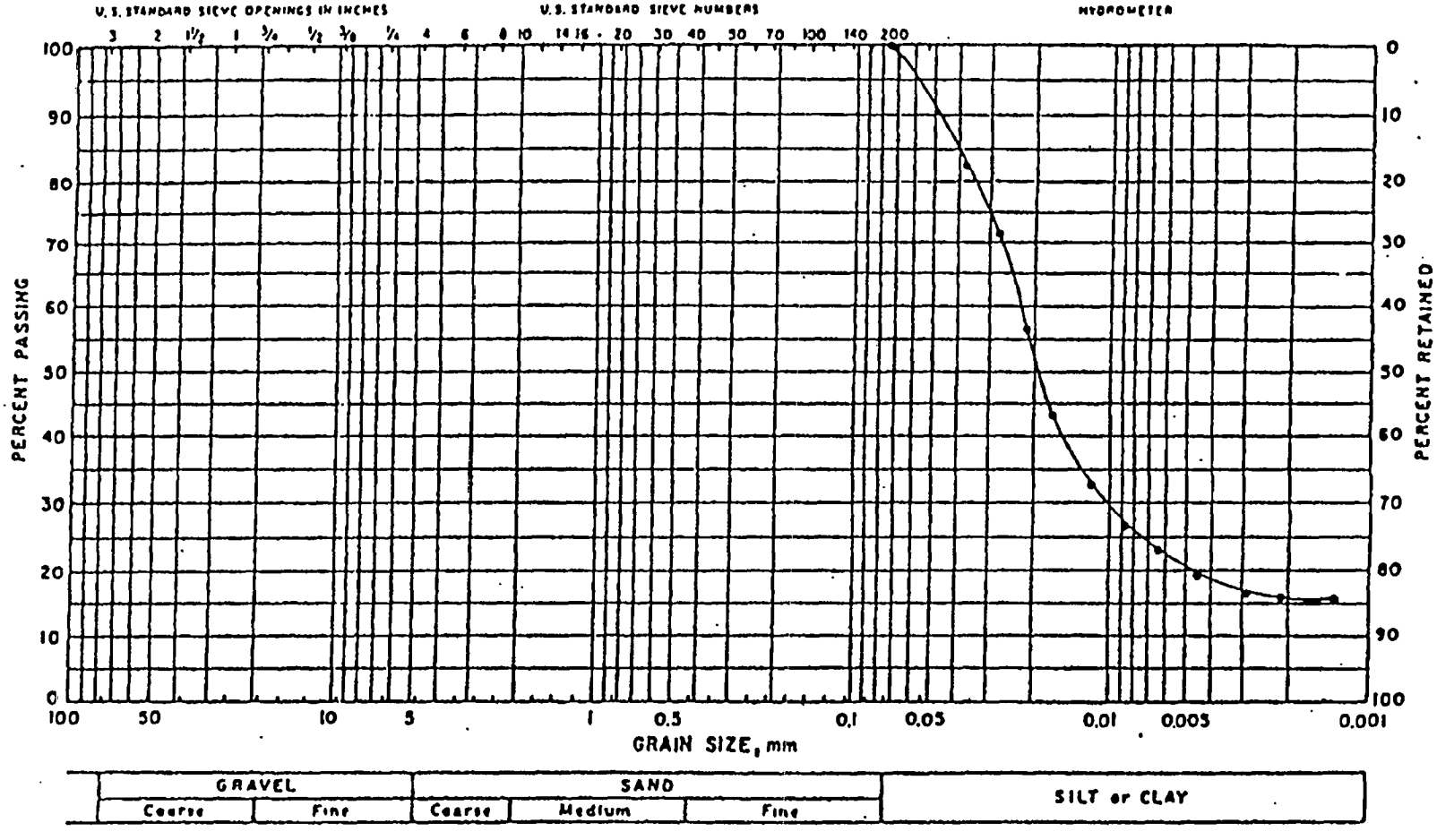
PARTICLE SIZE ANALYSIS



JOB NO. 04-1979 PROJECT Bechtel, Hazelwood Interim Storage Site

CURVE	BORING	SAMPLE	DEPTH, ft	DESCRIPTION
3	HISS-12	2	8.5-10.0	Gray-Brown Silty CLAY, CL

ATTACHMENT 2
1985 GEOTECHNICAL DATA

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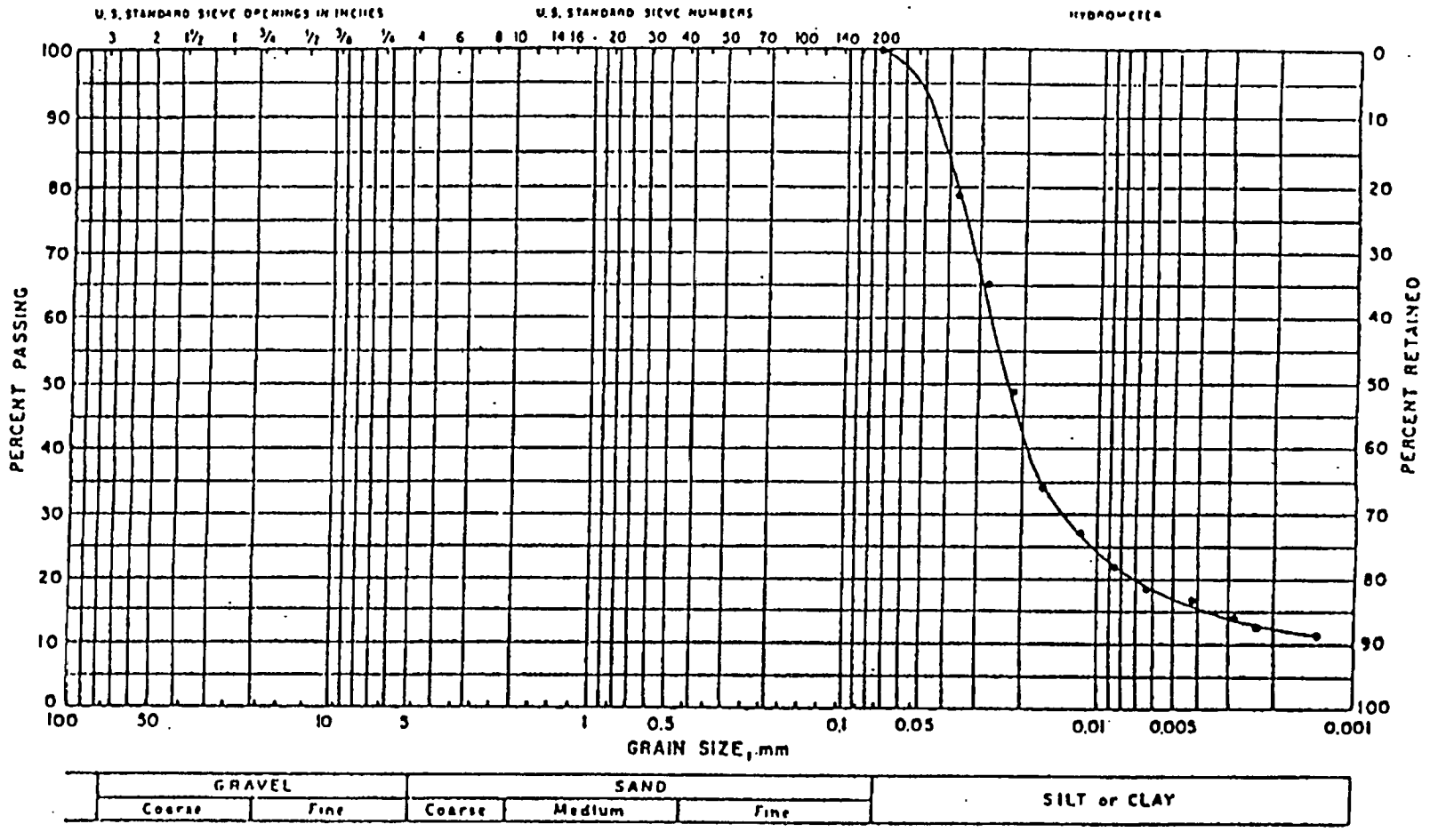
PARTICLE SIZE ANALYSIS



JOB NO. 04-1979 PROJECT Bechtel, Hazelwood Interim Storage Site

CURVE	BORING	SAMPLE	DEPTH, ft	DESCRIPTION
4	HISS-11 HISS-15	3	14.0-15.5	Gray SILT w/Clay, ML

ATTACHMENT 3
1985 GEOTECHNICAL DATA

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for the St. Louis Site, Missouri

U.S. Department of Energy