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JAN 18 2007

Mr. James A. Saric, Remedial Project Manager
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Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

EMCBC-00217-07

Mr. Thomas Schneider, Project Manager
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF RESPONSES TO OHIO ENVIRONMENTAL PROTECTION AGENCY TECHNICAL REVIEW COMMENTS ON THE DRAFT CERTIFICATION REPORT FOR THE FORMER SOLID WASTE LANDFILL, SOIL PILE 7 FOOTPRINT, STORMWATER MANAGEMENT POND AND RAILYARD DRAINAGE BASIN AREA

References:

1) Letter DOE-0038-07, J. Reising to J. Saric/T. Schneider, "Transmittal of the Certification Report for the Former Solid Waste Landfill, Soil Pile 7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area, Revision A (20600-RP-0013)," dated October 30, 2006

2) Letter, J. Saric to J. Reising, "SWL, SP7, SMP, Railyard Drainage Certification Report," dated November 15, 2006

3) Letter DOE-0080-07, J. Reising to J. Saric/T. Schneider, "Transmittal of Responses to U.S. Environmental Protection Agency Technical Review Comments on the Draft Certification Report for the Former Solid Waste Landfill, Soil Pile 7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area," dated November 28, 2006

4) Letter, T. Schneider to J. Reising, "Disapproval – Draft Certification Report for the FSWL, SP7 Footprint, SWM Pond and Railyard Drainage Basin," dated December 13, 2006

Enclosed for your approval are responses to Ohio Environmental Protection Agency (OEPA) comments and the final Certification Report for the Former Solid Waste Landfill, Soil Pile 7 Footprint, Stormwater Management Pond, and Railyard Drainage Basin Area. All comment responses have been incorporated in the final report including the U.S. Environmental Protection Agency (EPA) comments as noted in Reference 3.

If you have any questions or require additional information, please contact me at (513) 648-3139.

Sincerely,

Johnny Reising
Director

Enclosures: As stated

cc w/enclosures:
J. Desormeau, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SR-6J
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
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AR Coordinator, Fluor Fernald, Inc./MS12

cc w/o enclosures:
F. Johnston, Stoller, /MS12
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RESPONSES TO OHIO ENVIRONMENTAL PROTECTION AGENCY TECHNICAL REVIEW COMMENTS ON THE DRAFT CERTIFICATION REPORT FOR THE FORMER SOLID WASTE LANDFILL, SOIL PILE 7 FOOTPRINT, STORMWATER MANAGEMENT POND, AND RAILYARD DRAINAGE BASIN AREA

FERNALD CLOSURE PROJECT
FERNALD, OHIO

JANUARY 2007

U.S. DEPARTMENT OF ENERGY

RESPONSES TO OHIO ENVIRONMENTAL PROTECTION AGENCY TECHNICAL REVIEW COMMENTS ON THE DRAFT CERTIFICATION REPORT FOR THE FORMER SOLID WASTE LANDFILL, SOIL PILE 7 FOOTPRINT, STORMWATER MANAGEMENT POND, AND RAILYARD DRAINAGE BASIN AREA (20600-RP-0013, Revision A)

SPECIFIC COMMENTS

1. Commenting Organization: OEPA Commenter: OFFO
Section #: General Pg #: Line #: Code: C
Original Comment #: 1
Comment: Ohio EPA finds it unacceptable that DOE has inserted two new areas into this certification report, the Lime Scale Pit and the Dump Pit, and that they were never discussed previous to this report. In addition, DOE conducted the sampling and excavation through "nonsignificant" variances when the variances should have been significant. These two areas and the variances should have been brought to the attention of the Agencies, especially considering the scale and depth of the pits and the excavation involved.

The Lime Scale Pit and the Dump Pit need to be added into the document as part of the certification reports scope. A discussion needs to be included that will cover the process and history of these two pits, and the information must be presented in the Executive Summary, Scope description and Certification Design. In addition, the Lime Scale Pit and Dump Pit need to be on Figures 1-2, 2-1, and a separate figure showing sample locations. The also should be shown on any other figures that are appropriate.

Response: The Lime Scale Pit and the Dump Pit are not new areas inserted into this certification report they are features within the boundaries of this certification area, specifically the footprint of SP-7. The Lime Scale Pit is a hole that was left following the removal of a concrete pit, which was backfilled with above-WAC material when the footprint of SP-7 was expanded during operations and then removed when loaded for shipment to Envirocare. The Dump Pit is truly an over-excavation at the base of a deep ramp. Figure 3-2, which currently shows these two areas, will be revised to identify the other features (SWL and SP-7) to illustrate that the Lime Scale Pit and the Dump Pit are within the boundaries of this certification area. Figures 3-3 and 3-4 will be created to show the sample locations from these two areas.

Action: Figure 3-2 will be revised to identify the features of this area. Figures 3-3 and 3-4 will be created to show the sample locations for these two areas. Also, the document will be revised to clarify that the Lime Scale Pit and the Dump Pit are in the boundaries of this certification area.

2. Commenting Organization: OEPA Commenter: GeoTrans, Inc
Section #: List of figures Pg #: ii Line #: NA Code: C
Original Comment #: 2
Comment: Incorrect figure citation, Figure 1-3 should be "FCP Controlled Certification\Map", not "Topography".

Response: Agree.

Action: The figure citation will be corrected.

3. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: 1.5 Pg #: 1-2 Line #: 29 Code: C
Original Comment #: 3
Comment: Incorrect citation, correct citations appear in List of Appendices on page ii.

Response: Agree.

Action: The citations in Section 1.5 will be corrected to match page ii.

4. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: 2.0 Pg #: figs Line #: NA Code: C
Original Comment #: 4
Comment: Sample location symbol is missing on Figure 2-2 and Figure 2-3 for A6SWL-C03 13 and A6-SWMP-C01-16D, respectively.

Response: Agree.

Action: The missing symbols will be added to the figures.

5. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: 2.0 Pg #: Table 2-2 Line #: NA Code: C
Original Comment #: 5
Comment: On page 2-1, Line 4, the text indicates that Table 2-2 shows the CUs where each ASCOC is retained. Table 2-2 does not, however, include this information.

Response: On page 2-1, line 14, the text erroneously indicates that Table 2-2 presents justification for retaining or not retaining each ASCOC for each CU.

Action: This sentence will be revised to read:
"Table 2-2 presents justification for retaining or not retaining the ASCOCs and the ecological COCs for each of the areas being certified."

6. Commenting Organization: OEPA Commenter: OFFO
Section #: 3.1.3 Pg #: 3-3 Line #: 16-21 Code: C
Original Comment #: 6
Comment: DOE hasn't provided enough information regarding the precertification and certification activities regarding the SWM Pond. Include additional detail in this section relating to the overview of field activities conducted in the SWM Pond.

Response: Precertification activities conducted in the SWM Pond are discussed in Section 2.3 and Appendix A of the CDL/PSP as is done for all certification efforts. Since there were no changes to the scope of work or additional field activities related to the SWM Pond during the certification process, further discussion was not warranted.

Action: None

7. Commenting Organization: OEPA Commenter: OFFO
Section #: 3.1.4 Pg #: 3-3 Line #: 23-28 Code: C
Original Comment #: 7
Comment: DOE hasn't provided enough information regarding the precertification and certification activities regarding the Railyard Drainage Basin Area. Include additional detail in this section relating to the overview of field activities conducted in the Railyard Drainage Basin Area.

Response: Precertification activities conducted in the Railyard Drainage Basin Area discussed in Section 2.4 and Appendix A of the CDL/PSP as is done for all certification efforts. Since there were no changes to the scope of work or additional field activities related to the Railyard Drainage Basin Area during the certification process, further discussion is not warranted.

Action: None

8. Commenting Organization: OEPA Commenter: OFFO
Section #: 3.1.4 Pg #: 3-3 Line #: Code: C
Original Comment #: 8
Comment: This Section on "Changes to Scope of Work" needs clarification. Please provide the following information in the text.

A) Lines: 1-4. Please include the FRL for benzo(a)pyrene.
B) Lines: 6-10 and 12-17. Please mention the last sample result discussed or state that the results were below FRL, and reference the data table in the Appendices.
C) Lines: 19-22. Please provide the sample results for the last three samples discussed or state that the data was below FRL.
D) Lines: 24-27. The three sample results for the analysis of Aroclor-1254 should be in the text or state that the data was below FRL.

Including the above information will let the reader know all contamination was removed and sample results showed the area to be below the FRL.

Response: DOE assumes that this comment is in reference to Section 3.2 on pages 3-3 and 3-4 "Changes to the Scope of Work" and not Section 3.1.4.

A) Table 2-1 provides the FRLs. The FRL for benzo(a) pyrene will be included in this paragraph although the FRL is not typically included in this section.
(These lines are 34-37 on page 3-3.)

B, C, and D) A reference to Appendix C, "Analytical Results and Final Statistics Tables", will be included in the text as well as additional information regarding statistical analysis following each sampling event. Also, Appendix C has been updated to include footnotes to identify the newly collected data points following the excavations in sub-CUs due to a CU failing the certification criteria (hot-spot, UCL and/or *a posteriori*).
(These paragraphs are on page 3-4.)

Action: A) Lines 34-37 will be revised to read:
"Sub-CU A6-SWL-C02-2 had a result of 41,100 µg/kg for benzo(a)pyrene, which is greater than two times the FRL of 2000 µg/kg, (the field duplicate result was 331 µg/kg). Prior to excavation of the sample location, V/FCN 20600-PSP-0021-01 documented the collection of a random sample for benzo(a)pyrene within the same sub-CU. Following excavation of the above-FRL location, another sample was taken at the same location, and

was documented in V/FCN 20600-PSP-0021-02. The two newly collected samples replace the previously collected samples and were used in the final statistical analyses (Appendix C.2) for this CU, which demonstrate that CU A6-SP7-C02 pass the certification criteria."

B) Lines 6-10 on will be revised to read:

"V/FCN 20600-PSP-0021-03 documents the collection of soil samples from CU A6-SP7-C05 and A6-SP7-C06 following excavation of above-FRL sample locations in the SP-7 footprint that contributed to these CUs failing certification statistics. The original samples exceeded the FRLs for radium-228, thorium-228, thorium-232, and total uranium in both sub-CUs and for radium-226 in sub-CU A6-SP7-C05. The statistical analysis of this initial sampling is provided in Appendix C.1. Following excavation of the two locations, a physical sample was collected from the original sample locations as well as one random sample within each sub-CU to investigate the presence of residual contamination and to ensure that the sub-CU was adequately represented. The newly collected samples replace the previously collected samples and were used in the final statistical analyses (Appendix C.2) of these CUs, which demonstrate that CUs A6-SP7-C05 and A6-SP7-C06 pass the certification criteria."

Lines 12-17 will be revised to read:

"V/FCN 20600-PSP-0021-04 documents the collection of soil samples from CU A6-SP7-C03 and A6-SP7-C04 following the excavation of above-FRL sample locations that contributed to these CUs failing certification statistics. The above-FRL sample locations were A6-SP7-C03-15 (total uranium, aroclor-1254, and aroclor-1260), A6-SP7-C04-9 (total uranium), A6-SP7-C04-12 (total uranium and aroclor-1254), and A6-SP7-C04-13 (total uranium). The statistical analysis of this initial sampling is provided in Appendix C.1. Following excavation of the four locations, a physical sample was collected from the original sample locations as well as one random sample within each sub-CU to investigate the presence of residual contamination and to ensure that the sub-CU was adequately represented. The results of this sampling demonstrated that CU A6-SP7-C03 passed the certification criteria for total uranium, aroclor-1254, and aroclor-1260 the newly collected samples for CU A6-SP7-C03 replace the previously collected samples and were used in the statistical analyses (Appendix C.2) of these CUs, which show that CU A6-SP7-C03 pass the certification criteria. However, CU A6-SP7-C04 still demonstrated failing conditions for total uranium and aroclor-1254, which required additional excavation and sampling. This is documented in V/FCNs 20600-PSP-0021-05 and 06 below."

C) Lines 19-22 will be revised to read:

"V/FCN 20600-PSP-0021-05 documents the collection of soil samples from A6-SP7-C04 following excavation of above-FRL (total uranium) sample locations A6-SP7-C04-18 (originally sub-CU A6-SP7-C04-9, which was excavated and then sampled under V/FCN 20600-PSP-0021-04) and A6-SP7-C04-20 (originally sub-CU A6-SP7-C04-13, which was excavated and then sampled under V/FCN 20600-PSP-0021-04). One physical sample was collected from both of the original sample locations and one an additional random location within each sub-CU. The newly collected samples replace the previously collected samples and were used in the statistical analyses (Appendix C.2) of this CU, which demonstrate that CU A6-SP7-C04 pass the certification criteria for total uranium."

D) Line 24-27 will be revised to read:

"V/FCN 20600-PSP-0021-06 documents the collection of three soil samples from A6-SP7-C04 following excavation of above-FRL (aroclor-1254) sample locations A6-SP7-C04-17 and A6-SP7-C04-22. These locations were originally in sub-CU A6-SP7-C04-12, which was excavated and then sample under V/FCN 20600-PSP-0021-04. Following excavation of these two locations, a physical sample was collected from both of the original sample locations as well as an additional random sample within this sub-CU to investigate the presence of residual contamination and to ensure that the sub-CU was

adequately represented. The newly collected samples replace the previously collected samples and were used in the statistical analyses (Appendix C.2) of these CUs, which demonstrate that CU A6-SP7-C04 pass the certification criteria for aroclor-1254."

9. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: 3.2 Pg #: 3-4 Line #: 24-27 Code: C
Original Comment #: 9
Comment: V/FCN 20600-PSP-0021-06 is missing from Appendix B.

Response: Agree.

Action: V/FCN 20600-PSP-0021-06 will be included in Appendix B.

10. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: 5.1 Pg #: 5-1 Line #: 29 Code: C
Original Comment #: 10
Comment: Incomplete sentence: "While these analytes passed statistical analysis," is a fragment. Include the rest of the information regarding this CU.

Response: Agree.

Action: The following text will be included:

"While these analytes passed statistical analysis, excavation was necessary due to the radium-226 hotspot. Following the remediation, new certification samples were collected, as discussed in Section 3.2. Using the new sample results, the CU passed certification."

11. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: Ap. A.2 Pg #: NA Line #: NA Code: C
Original Comment #: 11
Comment: On page 3-2, Line 34, the text indicates that Appendix A, Attachment A.2 Include the data for Aroclor-1254 samples collected following hotspot excavation (A6SP7-T-12 and -13). These data are missing from Appendix A, Attachment A.2.

Response: Agree. Also, the text on in page 3-2 Section 3.1.2 states "The statistical analysis for aroclor-1254 is included in Appendix A, Attachment A.2, and all of the sample results for utility removal are in Appendix A, Attachment A.2.", but the above-FRL (hot spot) aroclor soil was excavated. Following the excavation two samples were collected and both were below the FRL, therefore statistical analysis for aroclor-1254 is not required.

Action: The data for aroclor-1254 samples collected following hotspot excavation (A6SP7-T-12 and A6SP7-T-13) will be included in Appendix A, Attachment A.2. Also, the aforementioned text in Section 3.12 will be revised to read:

"The aroclor-1254 and aroclor-1260 data, statistical analysis for aroclor-1260, and all of the sample results for utility removal are included in Appendix A, Attachment A.2."

12. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: Ap. C.2 Pg #: C.2-34 Line #: NA Code: C
Original Comment #: 12
Comment: Per Section 3.1.2, page 3-3, line 7-9, only the highest value for the Lime Scale Pit should be included in table for A6-SP7-C06 Thorium-228 and Thorium-232. Values included for A6SP7-LSP-PC-18 and A6SP7-LSP-PC-19 should be removed.

Response: Agree. The sample size is also incorrect for these two parameters.

Action: The thorium-228 and thorium-232 values for A6SP7-LSP-PC-18 and 19 will be removed from the table. Also, the sample size for these two constituents will be changed from 15 to 13.

13. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: Ap. C.2 Pg #: C.2-29-33 Line #: NA Code: C
Original Comment #: 13
Comment: Per Section 3.1.2, page 3-3, line 7-9, the highest post-excavation sample result for each analyte from the dump pit was included in the statistical analysis for A6SP7-C05. Values used in Statistics Tables for Dump Pit in A6-SP7-C05 are, however, incorrect (not maximum values from Lime Scale Pit - Dump Pit Precertification table) forRadium-226 (1.65867 at A6SP7-DP-PC-11 vs. 1.34 in table), Uranium, Total (161 J atA6SP7-DP-PC-18 vs. 69.1 in table), Arsenic (10.4 at A6SP7-DP-PC-6 vs. 8.4 in table),and Silver (0.09 J at A6SP7-DP-PC-6 Vs. 0.9 J).

Response: Agree. The highest post-excavation results from the dump pit were incorrectly listed for radium-226, total uranium, arsenic, and silver. However, upon further review, it was determined that the maximum value from the Lime Scale Pit – Dump Pit Precertification table for silver at A6SP7-DP-PC-06 was 0.1 J and not 0.09 J. Moreover, it was determined that the Dump Pit actually falls in CU A6-SP7-C02 and not A6-SP7-C05, therefore the statistical analyses for both C02 and C05 will be corrected..

Action: The Dump Pit data will be removed from the statistics table for CU A6-SP7-C05 and will be added to the statistics table for CU A6-SP7-C02. This will include the corrections of the highest post-excavation values for radium-226, total uranium, arsenic, and silver.

14. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: Ap. C.2 Pg #: C.2-34-37 Line #: NA Code: C
Original Comment #: 14
Comment: Per Section 3.1.2, page 3-3, line 7-9, the highest post-excavation sample result for each analyte from the lime scale pit was included in the statistical analysis forA6-SP7-C06. Values used in Statistics Tables for Line Scale Pit in A6-SP7-C06 are, however, incorrect (not maximum values from Lime Scale Pit - Dump Pit Precertification table) for Cesium-137 (0.0353 at A6SP7-LSP-PC-10 vs. 0.162 in table), Arsenic (7.1 atA6SP7-LSP-PC-9 vs. 6.7 in table), Dibenzo(a,h)anthracene (42 U at A6SP7-LSP-PC-7vs. 41.2 U in table).

Response: Agree. The highest post-excavation results from the lime scale pit in A6-SP7-C06 were incorrectly listed for cesium-137, arsenic, and dibenzo(a,h)anthracene.

Action: The highest post-excavation values from the lime scale pit for cesium-137, arsenic, and dibenzo(a,h)anthracene will be corrected for A6-SP7-C06.

15. Commenting Organization: OEPA Commenter: GeoTrans, Inc.
Section #: Ap. C.2 Pg #: C.2-29 Line #: NA Code: C
Original Comment #: 15

Comment: Per Section 3.1.2, page 3-3, line 7-9, the highest post-excavation sample result for Uranium, Total from the dump pit is to be included in the statistical analysis for A6-SP7-C05. For A6-SP7-C05, the maximum sample result is 161 mg/kg at A6SP7-DP-PC-18. The statistics table for this CU should be corrected with this sample result in accordance with the text. Because the maximum value > FRL, the statistical evaluation should be performed and the table appropriately updated.

Response: The highest post-excavation result for uranium from the Dump Pit of 121 mg/kg is greater than the FRL. As stated in response to comment number 13, the Dump Pit is actually in CU A6-SP7-C02 and not A6-SP7-C05.

Action: Per response to Comment #13 the maximum value for total uranium for A6-SP7-C02 will be corrected to 161 mg/kg and because this exceeds the total uranium FRL of 82 mg/kg a statistical evaluation will be preformed and included in the table.

CERTIFICATION REPORT FOR THE FORMER SOLID WASTE LANDFILL, SOIL PILE-7 FOOTPRINT, STORMWATER MANAGEMENT POND, AND RAILYARD DRAINAGE BASIN AREA

FERNALD CLOSURE PROJECT
FERNALD, OHIO

JANUARY 2007

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

20600-RP-0013
REVISION 0
FINAL

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LIST OF ACRONYMS AND ABBREVIATIONS

ASCOC	area-specific constituent of concern
ASL	analytical support level
BTV	benchmark toxicity value
CDL	Certification Design Letter
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	constituent of concern
CRDL	Contract Required Detection Limit
CU	certification unit
D&D	Decontamination and Demolition
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FCP	Fernald Closure Project
FPA	Former Production Area
FRL	final remediation level
FTF	Fire Training Facility
HAMDC	highest allowable minimum detectable concentration
HWMU	hazardous waste management unit
MDL	minimum detection level
mg/kg	milligrams per kilogram
OEPA	Ohio Environmental Protection Agency
OSDF	On-Site Disposal Facility
OU	Operable Unit
PCB	Polychlorinated Biphenyls
pCi/g	picoCuries per gram
PSP	Project Specific Plan
RAWP	Remedial Action Work Plan
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SCQ	Sitewide CERCLA Quality Assurance Project Plan
SED	Sitewide Environmental Database
SEP	Sitewide Excavation Plan
SP-7	Soil Pile 7
STP	Sewage Treatment Plant
SVOC	Semi-Volatile Organic Compound
SWL	Solid Waste Landfill
SWM	Storm Water Management
TPU	total propagated uncertainty
UCL	upper confidence limit
UST	underground storage tank
V/FCN	Variance/Field Change Notice
V&V	verification and validation
VOC	volatile organic compound
WAC	waste acceptance criteria

EXECUTIVE SUMMARY

This Certification Report presents the information and data used by the U.S. Department of Energy (DOE) to determine that soils in the former Solid Waste Landfill (SWL), Soil Pile-7 (SP-7) footprint, Stormwater Management (SWM) Pond, and Railyard Drainage Basin meet established final remediation levels (FRLs).

This Certification Report includes details of the certification sampling, analysis, and validation that took place in the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin. Figure 1-1 depicts the areas included in this Certification Report and Figure 1-2 depicts the historical features for the former SWL, the SP-7 footprint, which includes the Lime Scale Pit and the Dump Pit, the SWM Pond and the Railyard Drainage Basin.

Consistent with the Sitewide Excavation Plan (DOE 1998), these areas underwent predesign, excavation, and precertification activities, including the use of real-time instrumentation as well as physical sampling and analysis. As a result of these activities, it was determined that no further remediation was necessary prior to certification.

All the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin certification units (CUs) were sampled and statistical analysis was conducted where necessary to ensure certification criteria were met. As discussed in the Certification Design Letter and Certification Project Specific Plan for the former Solid Waste Landfill (SWL), Soil Pile-7 (SP-7) footprint, Stormwater Management (SWM) Pond, and Railyard Drainage Basin (DOE 2006a), the certification criteria are that the average primary area-specific constituent of concern (ASCOC) concentrations within a CU are below-FRLs at a 95 percent upper confidence level (UCL, 90 percent UCL for secondary ASCOCs). Additionally, no certification result can exceed two times the FRL (i.e., the hotspot criterion). If either of these criteria is not met, then further investigation and possible excavation is required.

After the initial certification samples were collected, analyzed, and validated, CUs A6-SP7-C03, CUs A6-SP7-C04, CUs A6-SP7-C05 and CUs A6-SP7-C06 failed the statistical and/or hotspot criteria. Additional excavation and sampling were required to remove contamination and pass the certification criteria. Upon completion of final certification statistics, all the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin CUs pass the certification criteria.

On the basis of this reported information and supporting project files, DOE has determined that no additional remedial actions are required in this portion of the site. The area will be considered certified when the U.S. Environmental Protection Agency (EPA) and the Ohio Environmental Protection Agency (OEPA) concur that certification criteria have been met.

1.0 INTRODUCTION

1.1 PURPOSE

This Certification Report presents the information and data used by the U.S. Department of Energy (DOE) to determine that soil in the former Solid Waste Landfill (SWL), Soil Pile-7 (SP-7) footprint, Stormwater Management (SWM) Pond, and Railyard Drainage Basin meet established final remediation levels (FRLs). On the basis of this reported information and supporting project files, DOE has determined that no additional remedial actions are required in this portion of the site.

1.2 BACKGROUND

In the Operable Unit (OU) 5 Record of Decision (ROD, DOE 1996a), DOE made a commitment to excavate contaminated soil that exceeds health-based FRLs. The excavated material may be disposed of at the On-Site Disposal Facility (OSDF) or at an off-site disposal facility if it does not meet OSDF waste acceptance criteria (WAC). The OU5 Remedial Investigation Report (RI, DOE 1995a) defined the extent of above-FRL soil contamination and, in general, indicated widespread contamination occurring in approximately 430 acres of the 1,050-acre Fernald Closure Project (FCP).

In the OU5 Remedial Action Work Plan (RAWP, DOE 1996b), DOE agreed to prepare a Sitewide Excavation Plan (SEP, DOE 1998) that defined the overall approach to cleaning up soil and at- and below-grade debris in accordance with the OU2 ROD (DOE 1995b), OU3 ROD (DOE 1996c), and OU5 ROD.

In the SEP, the FCP was divided into distinct remedial areas and phases for soil remediation, based on the operable units' remediation schedule. After all necessary remediation is completed within each area/phase, the soil is certified as having attained all clean up goals (i.e., FRLs). The general approach for the removal of contaminated soil and debris in the area followed "Excavation Approach D - Excavation Following D&D in the Former Production Area, STP and FTF," as described in Section 4.4 of the SEP.

1.3 SCOPE AND AREA DESCRIPTION

The scope of this Certification Report includes details of certification sampling, analysis and validation that took place in the former SWL, SP-7 footprint, which includes the Lime Scale Pit and the Dump Pit, SWM Pond, and Railyard Drainage Basin. Figure 1-1 depicts the area to be certified under this Certification Report. The historical features for these areas are shown on Figure 1-2.

1.4 OBJECTIVES

The objectives of this Certification Report are to:

- Summarize the precertification and remedial activities,
- Describe the analytical methods, data validation processes, data reduction and statistical processes used to support the certification process,
- Present certification sampling results for all certification units (CUs), and
- Present the statistical analysis showing that all CUs have passed the certification criteria, including FRL attainment and hotspot criteria.

1.5 REPORT FORMAT

This Certification Report is presented in five sections with supporting documentation and data in the appendices. These sections are as follows:

Section 1.0	Introduction: Purpose, background, area description, scope, and objectives of the report
Section 2.0	Certification Approach: The approach for certification sampling and analysis
Section 3.0	Overview of Field Activities: Historical data evaluation, precertification, area preparation, excavation and changes to work scope
Section 4.0	Analytical Methodologies, Data Validation Processes and Data Reduction
Section 5.0	Certification Evaluation and Conclusions
Appendix A	Precertification Variance/Field Change Notices and Precertification Physical Sample Data
Appendix B	Variance/Field Change Notices for the CDL and Certification PSP for the Former SWL, SP-7 Footprint, SWM Pond, and Railyard Drainage Basin Area
Appendix C	Analytical Results and Final Statistics Tables

1.6 FCP MASTER CERTIFICATION MAP

In order to track certification and characterization for reuse areas at the FCP, DOE updates a controlled map (Figure 1-3) showing the status of the soil remediation areas and phased areas with all Certification Reports. This map has been updated to include certification of the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area.

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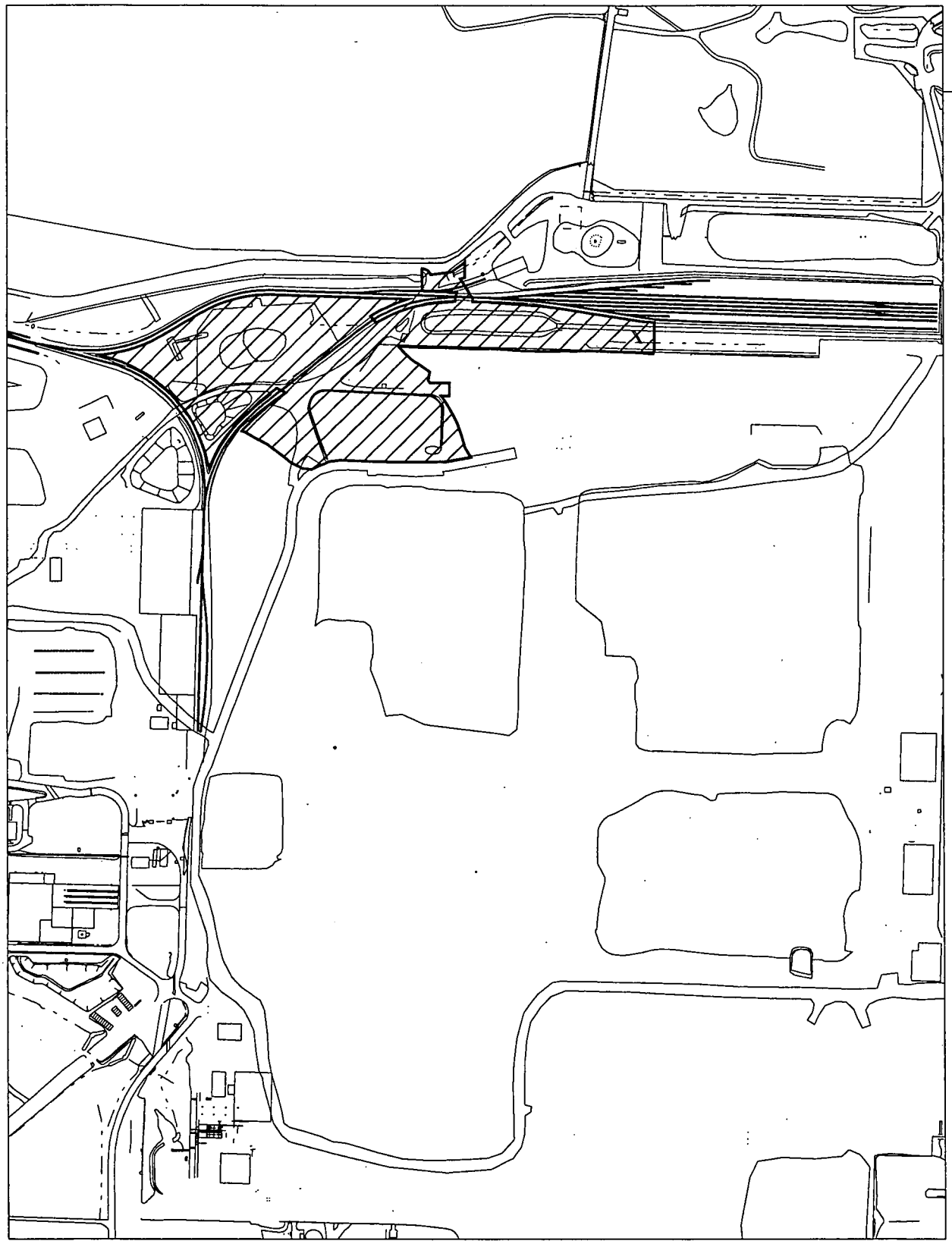


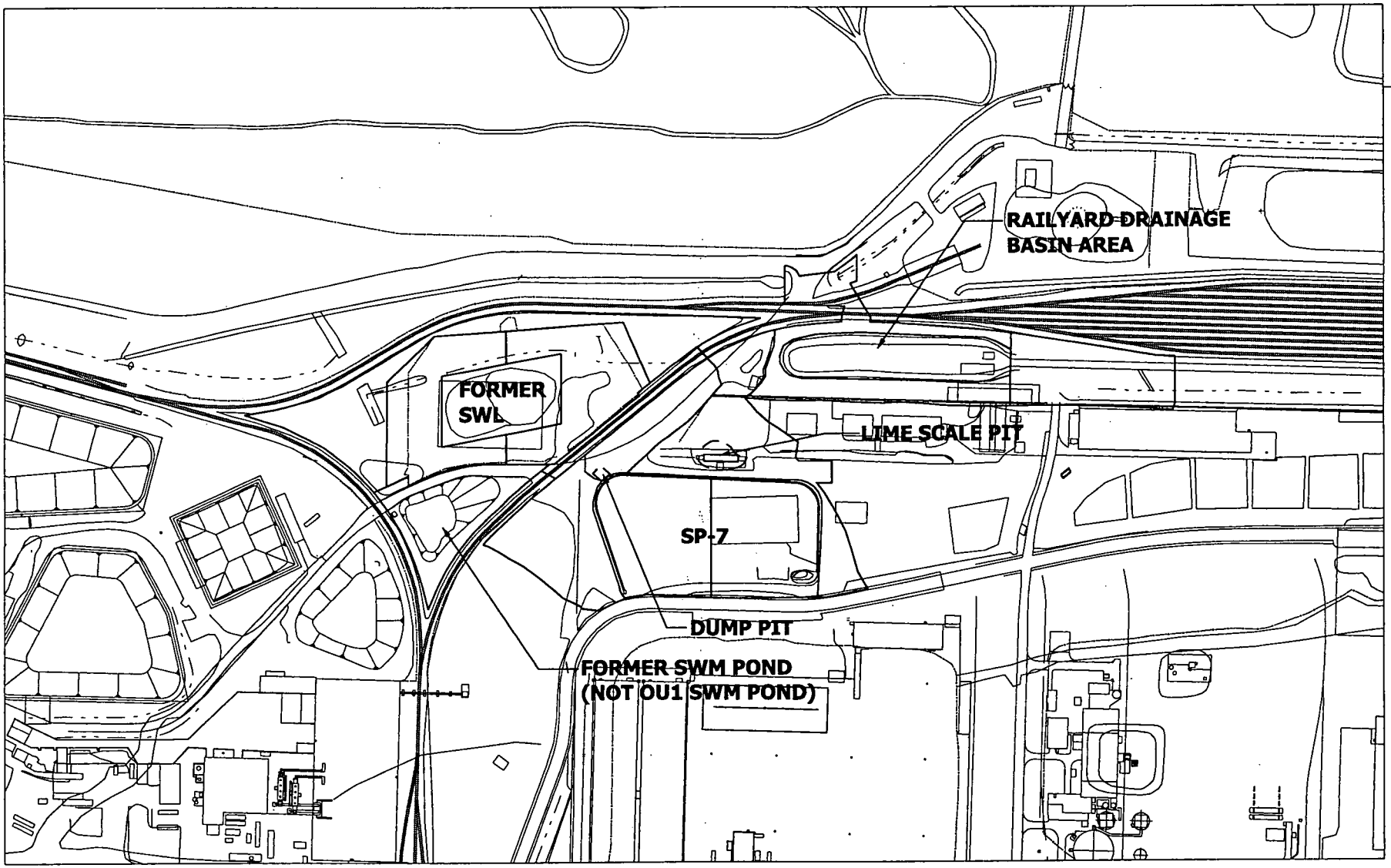
LEGEND:

AREA TO BE CERTIFIED

SCALE

500 250 0 500 FEET

FIGURE 1-1. FORMER SWL, SP-7 FOOTPRINT, SWM POND, AND RAILYARD DRAINAGE BASIN AREA



LEGEND:

AREA BOUNDARIES

SCALE

300 150 0 300 FEET

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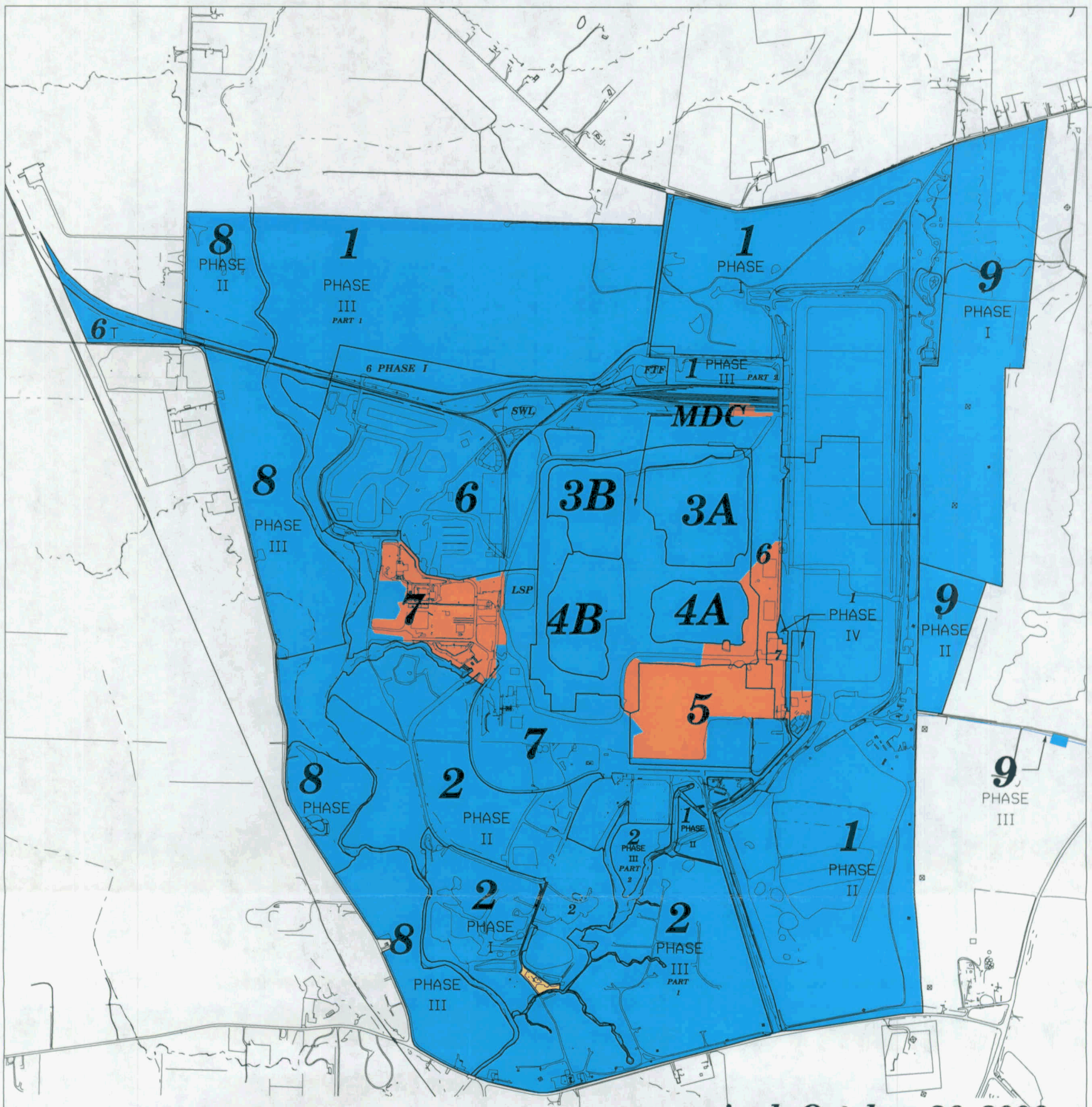
FIGURE 1-2. HISTORICAL FEATURES MAP



revised October 26, 2006

AREAS	TOTAL ACRES	APPROVED CERT. ACRES	CERT. ACRES IN PROGRESS	REMEDIATION ACRES IN PROGRESS	PREDESIGN ACRES IN PROGRESS	REMAINING ACRES
AREA 1	395.1	394.0	1.0	0	0	0
AREA 2	173.9	173.9	0	0	0	0
AREA 3A/4A	29.3	29.3	0	0	0	0
AREA 3B/4B	25.4	25.4	0	0	0	0
AREA 5	26.9	8.9	18.0	0	0	0
AREA 6	149.5	143.7	5.9	0	0	0
AREA 7	77.0	55.5	21.5	0	0	0
AREA 8	98.9	98.9	0	0	0	0
MDC	39.8	34.3	5.5	0	0	0
PR/SSOD/PPDD	33.3	33.3	0	0	0	0
TOTAL ON SITE	1049.2	997.3	51.9	0	0	0
AREA 9	85.6	85.6	0	0	0	0
TOTAL OFF SITE	85.6	85.6	0	0	0	0

AREA 10 INCLUDES PIPELINES RELATED TO GROUNDWATER REMEDIATION AND OTHER UTILITIES NOT SPECIFICALLY LISTED.

SCALE

1100 550 0 1100 FEET

FIGURE 1-3. FCP CONTROLLED CERTIFICATION MAP

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2.0 CERTIFICATION APPROACH

2.1 CERTIFICATION STRATEGY

This section summarizes the area-specific constituent of concern (ASCOC) selection process and the certification approach, including CU establishment, sampling design, and statistical analysis. The general certification strategy is described in Section 3.4 of the SEP, and the specific strategy for the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin is described in the CDL (DOE 2006a).

2.1.1 Area-Specific Constituents Of Concern

Total uranium, radium-226, radium-228, thorium-228 and thorium-232 are sitewide primary constituents of concern (COCs) and were retained as ASCOCs for this remediation effort. Secondary ASCOCs for the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin are listed in the SEP. Table 2-1 lists the secondary ASCOCs identified in the SEP. Table 2-2 presents justification for retaining or not retaining the ASCOCs and the ecological COCs for each of the areas being certified. Additional secondary COCs have been retained in this area due to historical above-WAC or above-FRL results as well as former land use. The complete list of COCs that are going to be retained for certification can be found in Tables 2-3 through and 2-6.

2.1.2 ASCOC Selection Criteria

The selection process for retaining ASCOCs for a remediation area is driven by applying a set of decision criteria. A soil contaminant is retained as an ASCOC if:

- It is listed as a soil COC in the OU5 ROD and, it is listed as an ASCOC in Table 2-7 of the SEP for the Remediation Area of interest;
- It is listed as a COC for a HWMU or UST that lies within the certification area boundary;
- It can be traced to site use in the remediation area of interest, either through process knowledge or known release of the constituent to the environment;
- Analytical results indicated that a contaminant is present above its FRL, and the above-FRL concentrations are not attributed to false positives or elevated Contract Required Detection Limits (CRDLs);
- Physical characteristics of the contaminant, such as degradation rate or volatility, indicated it is likely to persist in the soil between time of release and remediation; or
- The contaminant is one of the sitewide primary COCs (total uranium, radium-226, radium-228, thorium-238, and thorium-232).

Using the above process, the ASCOCs were refined to those listed in Table 2-7 of the SEP. The list of ASCOCs is also presented in Table 2-1 with their respective FRLs and, if applicable, benchmark toxicity values (BTVs).

2.1.3 ASCOC Selection Process

2.1.3.1 Former Solid Waste Landfill ASCOC Selection

Each ASCOC on the Area 6 list (see Table 2-1) was evaluated for its relevance to the former SWL. Table 2-2 presents the reasoning for either retaining or eliminating the ASCOCs. Total uranium, radium-226, radium-228, thorium-228 and thorium-232 are sitewide primary ASCOCs, and will be retained as ASCOCs for the former SWL CUs. Additional secondary COCs have been retained in this area due to historical above-WAC or above-FRL results as well as former land use. Based on the OU2 ROD, the total uranium FRL for the SWL certification units is 38.6 mg/kg. The OU5 ROD FRLs for the other radiological COCs are more conservative than the OU2 FRLs, therefore, the OU5 FRLs will be used. The complete list of COCs that are to be retained for certification are listed in Table 2-3.

2.1.3.2 Soil Pile 7 Footprint ASCOC Selection

As the SP-7 footprint has been a staging area for all material that does not meet the OSDF waste acceptance criteria, all sitewide ASCOC listed in Table 2-7 of the SEP were evaluated for their relevance to the SP-7 footprint. Additional COCs not identified on Table 2-7 have also been evaluated due to process knowledge of material staged in the SP-7 footprint. Table 2-2 presents the reasoning for either retaining or eliminating the ASCOCs. Total uranium, radium-226, radium-228, thorium-228 and thorium-232 are sitewide primary ASCOCs, and will be retained as ASCOCs for the SP-7 footprint CUs. Additional secondary COCs have been retained in this area due to historical above-WAC or above-FRL results as well as former land use. The complete list of COCs that are to be retained for certification are listed in Table 2-4.

2.1.3.3 SWM Pond

The SWM Pond covered under the scope of this CDL/PSP was a clean stormwater runoff basin. Water that accumulated in this SWM Pond drained directly to Paddys Run. In addition to the sitewide primary radiological COCs being retained, two ecological COCs are also being retained. The complete list of COCs that are to be retained for certification are listed in Table 2-5.

2.1.3.4 Railyard Drainage Basin Area

The Railyard Drainage Basin Area received clean runoff water from the railyard. The sitewide primary radiological COCs will be retained in the railyard drainage basin, along with polyaromatic hydrocarbons (PAHs) and two ecological COCs. The complete list of COCs that are to be retained for certification are listed in Table 2-6.

2.2 CERTIFICATION APPROACH

The certification design for these areas follows the general approach outlined in Section 3.4 of the SEP. The CU design is shown on Figure 2-1 and sample locations are depicted on Figures 2-2 through 2-6. Fourteen Group 1 CUs were designed to represent the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin Area. As discussed in Section 2.1 of this document, the five primary ASCOCs (total uranium, radium-226, radium-228, thorium-228, thorium-232) will be retained in each CU as well as various other secondary ASCOC as outlined in Table 2-3 through Table 2-6.

Several factors were taken into consideration when determining the boundaries for each CU within the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin Area. Some of these include: historical land use, proximity to other areas of the site, and COC data. Additionally, because most of the areas contained impacted material, they will be comprised of Group 1 CUs to allow for more concentrated sampling and ensure excavation activities and removal of above and below grade structures had no effect on the soil.

2.2.1 Certification Unit Design

The former SWL, SP-7 footprint, which includes the Lime Scale Pit and the Dump Pit, SWM Pond, and Railyard Drainage Basin Area consists of 14 Group 1 CUs that were designed around a combination of former land use, location, and COCs for each area. As shown in Figure 2-1, the separate areas included in this certification effort are represented by groups of CUs as follows:

• CU A6-SWL-C01	Deepest portion of the SWL excavation
• CUs A6-SWL-C02 and A6-SWL-C03	Former SWL Footprint Area
• CU A6-SWL-C04	Area surrounding the SWL Footprint
• CU A6-SWMP-C01	SWM Pond
• CU A6-SP7-C01	Rail line at SP-7 Loadout Ramp
• CU A6-SP7-C02	Loadout ramp at SP-7 and the Dump Pit
• CUs A6-SP7-C03 and A6-SP7-C04	SP-7 footprint
• CU A6-SP7-C05	Area surrounding SP-7
• CUA6-SP7-C06	Area surrounding SP-7 and the Lime Scale Pit
• CUs A6-RDBA-C01 through A6-RDBA-C03	Railyard Drainage Basin Area

2.2.2 Sample Selection Process

The selection of certification sampling locations was conducted according to Section 3.4.2 of the SEP. Each CU was first divided into 16 approximately equal sub-CUs. Sample locations were then generated by randomly selecting an easting and northing coordinate within the boundaries of each sub-CU, then testing those locations against the minimum distance criteria for the CU. If the minimum distance criteria were

not met, an alternative random location was selected for that sub-CU, and all the locations were re-tested. This process continued until all random locations met the minimum distance criteria.

All samples were collected for analysis from the top 0 to 6 inches of the surface. Four of the 16 sample locations within each CU are designated with a "V," indicating archive sample locations. Archive samples will not be collected unless they are needed for additional analysis. One sample location in each CU is designated with a "D," indicating a field duplicate sample collection location.

Prior to commencement of certification sampling field activities, all certification sample locations were surveyed and field verified to make sure no surface obstacles would prevent collection at the planned location. It was not necessary to move any planned certification sample locations.

2.2.3 Certification Sampling

Samples were collected for analysis from 0 to 6 inches at 12 of the 16 locations in each CU. The four samples designated as "archive" were not collected as they were not needed for additional analysis.

2.2.4 Statistical Analysis

Two criteria must be met for the CU to pass certification. If the data distribution is normal or lognormal, the first criterion compares the 95 percent upper confidence limit (UCL) on the mean of each primary COC to its FRL, or the 90 percent UCL on the mean of each secondary ASCOC. On an individual CU basis, any ASCOC with the 95 percent UCL (for primary ASCOCs) or 90 percent UCL (for secondary ASCOCs) above the FRL results in that CU failing certification. If the data distribution is not normal or lognormal, the appropriate nonparametric approach discussed in Appendix G of the SEP will be used to evaluate the second criterion; the *a posteriori* test will the performed to determine whether the sample size is sufficient for a meaningful conclusion of this comparison. The second criterion is the hotspot criterion, which states that primary or secondary ASCOC results must not exceed two times the FRL. When the given UCL on the mean for each COC is less that its FRL and the hotspot criterion is met, the CU will be considered certified.

In the event that a CU passes the *a posteriori* test but fails certification, the following two scenarios will be evaluated: 1) localized contamination, and 2) widespread contamination. Details on the evaluation and responses to these possible outcomes are provided in Section 3.4.5 of the SEP.

TABLE 2-1
ASCOC LIST FOR REMEDIATION AREA 6[a]

ASCOC	FRL (*BTV*[b])
Radionuclides	
Total Uranium	82 mg/kg (38.6 mg/kg in the SWL)
Radium-226	1.7 pCi/g
Radium-228	1.8 pCi/g
Thorium-228	1.7 pCi/g
Thorium-232	1.5 pCi/g
Cesium-137	1.4 pCi/g
Thorium-230	280 pCi/g
Technetium-99	29.1 pCi/g
Inorganics	
Antimony	96 mg/kg
Arsenic	12 mg/kg
Beryllium	1.5 mg/kg
Cadmium	96 mg/kg
Fluoride	78,000 mg/kg
Silver	29,000 mg/kg
Organics	
Aroclor-1254	0.13 mg/kg
Aroclor-1260	0.13 mg/kg
Benzo(a)anthracene	20 mg/kg (*1.0 mg/kg*)
Benzo(a)pyrene	2 mg/kg (*1.0 mg/kg*)
Benzo(b)fluoranthene	20 mg/kg (*1.0 mg/kg*)
Benzo(g,h,i)perylene	(*1.0 mg/kg*)
Benzo(k)fluoranthene	200 mg/kg (*1.0 mg/kg*)
Bromodichloromethane	4.0 mg/kg
Chrysene	2000 mg/kg (*1.0 mg/kg*)
Dibenzo(a,h)anthracene	2 mg/kg (*0.088 mg/kg*)
1,1-Dichloroethene	0.41 mg/kg
Dieldrin	0.015 mg/kg
Fluoranthene	(*10 mg/kg*)
Heptachloradibenzo-p-dioxins	0.00088 mg/kg
Indeno(1,2,3-cd)pyrene	20 mg/kg (*1.0 mg/kg*)
Octachlorodibenzo-p-dioxin	0.0088 mg/kg
Phenanthrene	(*5 mg/kg*)
Pyrene	(*10 mg/kg*)
Tetrachloroethene	3.6 mg/kg

TABLE 2-2
ASCOC RETENTION PROCESS FOR THE FORMER SWL, SP-7 FOOTPRINT, STORMWATER MANAGEMENT POND, AND RAILYARD DRAINAGE BASIN AREA

Area 6 ASCOCs	Retained As ASCOC?	Justification	Area Where Retained:
Radiological			
Radium-226	Yes	Retained as primary ASCOC	All Areas
Radium-228	Yes	Retained as primary ASCOC	All Areas
Thorium-228	Yes	Retained as primary ASCOC	All Areas
Thorium-232	Yes	Retained as primary ASCOC	All Areas
Total Uranium	Yes	Retained as primary ASCOC	All Areas
Cesium-137	Yes	Known contaminant staged at SP-7	SP-7
Lead-210	Yes	Known contaminant staged at SP-7	SP-7
Neptunium-237	Yes	Potential contaminant staged at SP-7	SP-7
Technetium-99	Yes	Known contaminant staged at SP-7; above-FRL results in the SWL area	SP-7, SWL
Thorium-230	Yes	Known contaminant staged at SP-7	SP-7
Dioxins			
Heptachlorodibenzo-p-dioxins	No	No above-FRL results present	None
Octachlorodibenzo-p-dioxins	No	No above-FRL results present	None
Inorganics			
Antimony	Yes	Is an ECOC per Appendix C of the SEP	All Areas
Arsenic	Yes	Above-FRL results in the SWL area	SP-7, SWL
Barium	Yes	Potential contaminant staged at SP-7	SP-7
Beryllium	Yes	Above-FRL results in the SWL area	SP-7, SWL
Cadmium	Yes	Is an ECOC per Appendix C of the SEP	All Areas
Chromium	Yes	Potential contaminant staged at SP-7	SP-7
Lead	Yes	Potential contaminant staged at SP-7	SP-7
Mercury	Yes	Potential contaminant staged at SP-7	SP-7
Molybdenum	Yes	Is an ECOC per Appendix C of the SEP	SP-7
Selenium	Yes	Potential contaminant staged at SP-7	SP-7
Silver	Yes	Potential contaminant staged at SP-7	SP-7
Fluoride	No	No above-FRL results present	None
Pesticides/PCBs			
Aroclor-1254	Yes	Above-FRL results in the SWL area; Potential contaminant staged at SP-7	SP-7, SWL
Aroclor-1260	Yes	Above-FRL results in the SWL area; Potential contaminant staged at SP-7	SP-7, SWL
Dieldrin	Yes	Potential contaminant staged at SP-7	SP-7

TABLE 2-2
(Continued)

Area 6 ASCOCs	Retained As ASCOC?	Justification	Area Where Retained
PAHs			
Benzo(a)anthracene	Yes	Potential contaminant from railyard run-off	RDBA
Benzo(a)pyrene	Yes	Above-FRL results in the SWL area; potential contaminant from railyard run-off	SP-7, RDBA, SWL
Benzo(b)fluoranthene	Yes	Potential contaminant from railyard run-off	SP-7, RDBA
Benzo(g,h,i)perlene	Yes	Potential contaminant from railyard run-off	RDBA
Benzo(k)fluoreanthene	Yes	Potential contaminant from railyard run-off	RDBA
Dibenzo(a,h)anthracene	Yes	Potential contaminant from railyard run-off	SP-7, RDBA
Fluorenanthene	Yes	Potential contaminant from railyard run-off	RDBA
Chrysene	Yes	Potential contaminant from railyard run-off	RDBA
Indeno(1,2,3-cd)pyrene	Yes	Potential contaminant from railyard run-off	SP-7, RDBA
Phenanthrene	Yes	Potential contaminant from railyard run-off	RDBA
Pyrene	Yes	Potential contaminant from railyard run-off	RDBA
Volatile Organic Compounds			
Bromodichloromethane	Yes	Potential contaminant staged at SP-7	SP-7
1,1-Dichloroethene	Yes	Known contaminant staged at SP-7	SP-7
1,2-Dichloroethene	Yes	Known contaminant staged at SP-7	SP-7
Methylene Chloride	Yes	Potential contaminant staged at SP-7	SP-7
Tetrachloroethene	Yes	Known contaminant staged at SP-7	SP-7
Toluene	Yes	Potential contaminant staged at SP-7	SP-7
1,1,1-Trichloroethane	Yes	Known contaminant staged at SP-7	SP-7
Trichloroethene	Yes	Known contaminant staged at SP-7	SP-7
Xylenes, total	Yes	Potential contaminant staged at SP-7	SP-7

TABLE 2-3
ASCOCs FOR THE FORMER SOLID WASTE LANDFILL

Primary COCs	Secondary COCs
Radium-226	Aroclor-1254
Radium-228	Aroclor-1260
Thorium-228	Arsenic
Thorium-232	Benzo(a)pyrene
Total Uranium	Beryllium
	Technetium-99
	Ecological COCs
	Antimony
	Cadmium

TABLE 2-4
ASCOCs FOR THE SP-7 FOOTPRINT

Primary COCs	Secondary COCs	
Radium-226	Cesium-137	Bromodichloromethane
Radium-228	Neptunium-237	1,1-Dichloroethene
Thorium-228	Lead-210	1,2-Dichloroethene
Thorium-232	Technetium-99	Methylene Chloride
Total Uranium	Thorium-230	Tetrachloroethene
		Toluene
	Arsenic	1,1,1-Trichloroethane
	Barium	Trichloroethene
	Beryllium	Xylenes, total
	Cadmium	
	Chromium	
	Lead	
	Mercury	
	Selenium	Indeno(1,2,3-c,d)pyrene
	Silver	Benzo(a)pyrene
		Benzo(b)fluoranthene
	Aroclor-1254	Dibenzo(a,h)anthracene
	Aroclor-1260	
	Dieldrin	
		Ecological COCs
		Antimony
		Cadmium
		Molybdenum

TABLE 2-5
ASCOCs FOR THE SWM POND

Primary COCs	Ecological COCs
Radium-226	Antimony
Radium-228	Cadmium
Thorium-228	
Thorium-232	
Total Uranium	

TABLE 2-6
ASCOCs FOR THE RAILYARD DRAINAGE BASIN AREA

Radium-226	Benzo(a)anthracene
Radium-228	Benzo(a)pyrene
Thorium-228	Benzo(b)fluoranthene
Thorium-232	Benzo(g,h,i)perlene
Total Uranium	Benzo(k)fluoreanthene
	Dibenzo(a,h)anthracene
	Fluorenanthene
	Chrysene
	Indeno(1,2,3-cd)pyrene
	Phenanthrene
	Pyrene
	Ecological COCs
	Antimony
	Cadmium

[a]As listed in Table 2-7 of the SEP.
[b]BTV applies to Ecological COCs.
pCi/g - picoCuries per gram

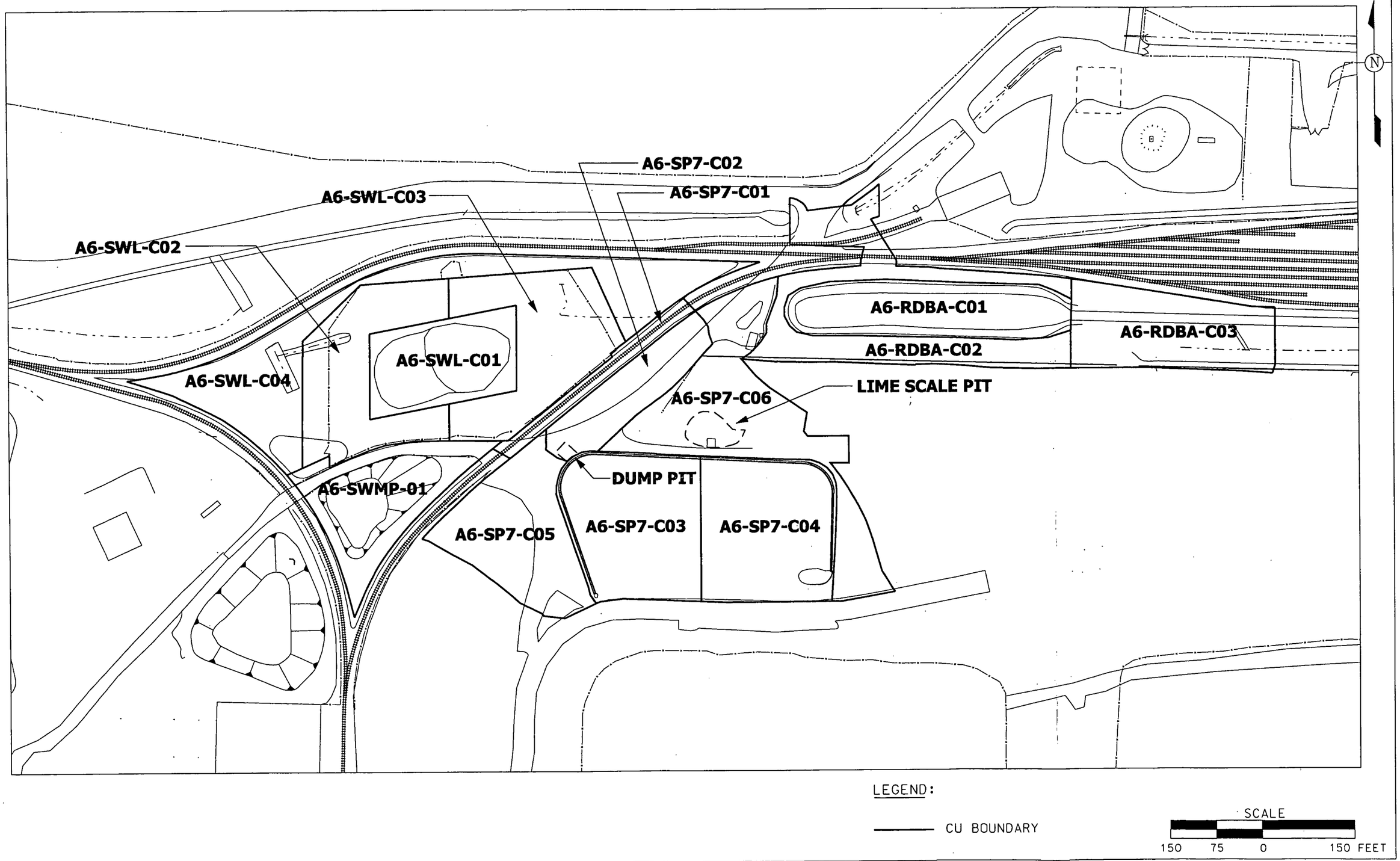

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FIGURE 2-1. FORMER SWL, SP-7 FOOTPRINT, SWM POND, AND RAILYARD DRAINAGE BASIN AREA CU BOUNDARIES

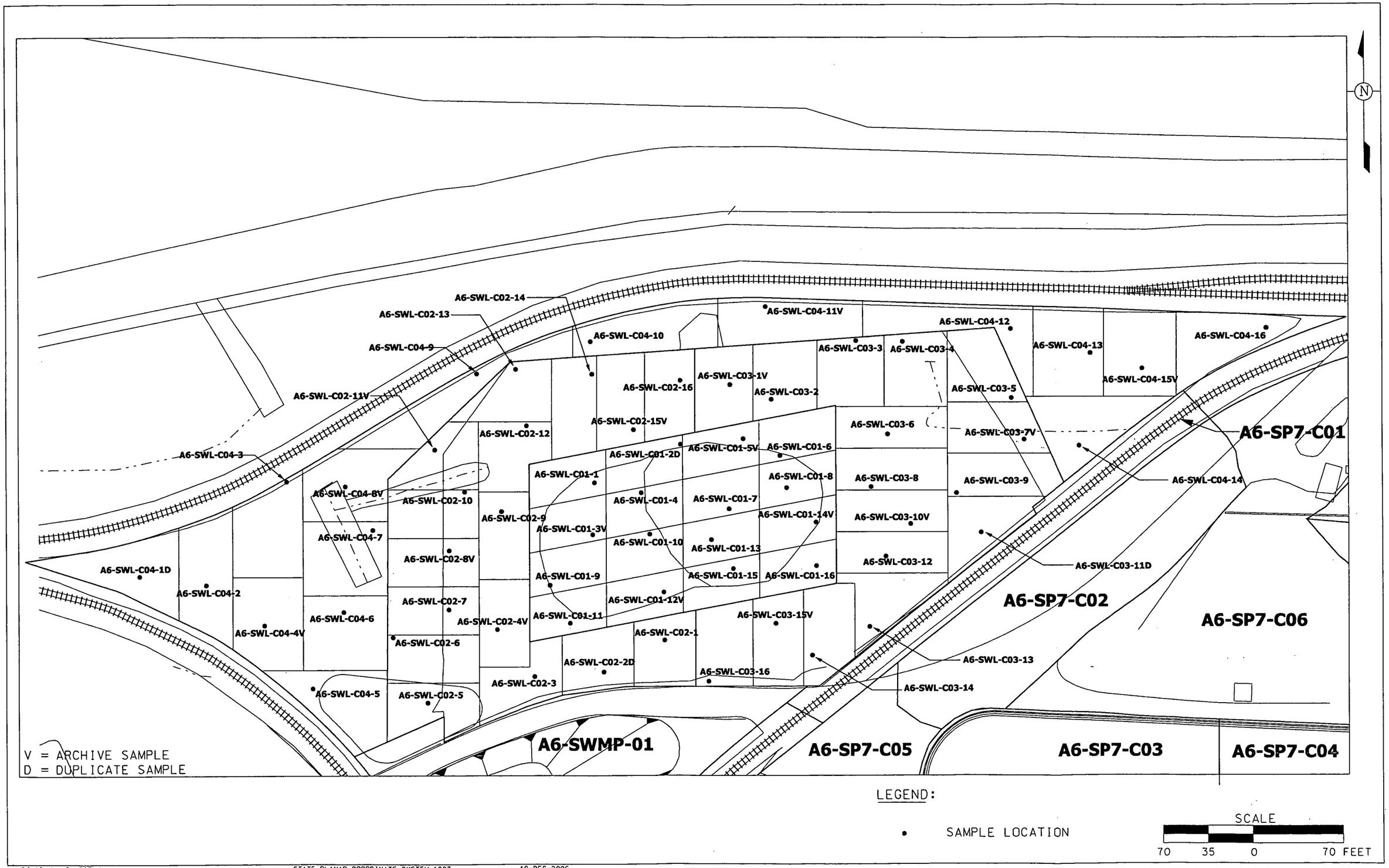

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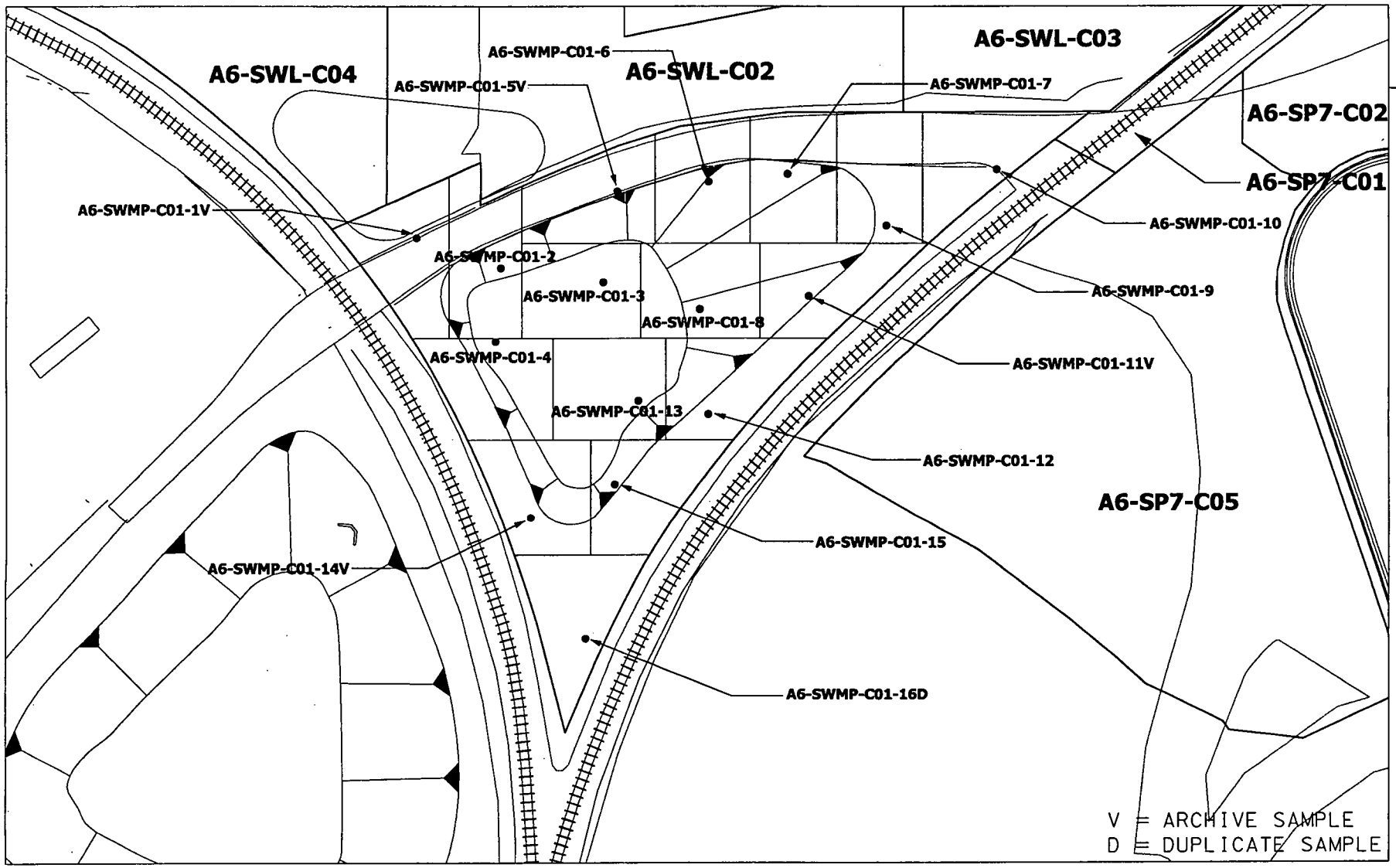
FIGURE 2-2. FORMER SWL SUB-CU BOUNDARY AND CERTIFICATION SAMPLING LOCATIONS



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LEGEND:

• SAMPLE LOCATION

SCALE

70 35 0 70 FEET

FIGURE 2-3. FORMER SWM POND SUB-CU BOUNDARY AND CERTIFICATION SAMPLING LOCATIONS

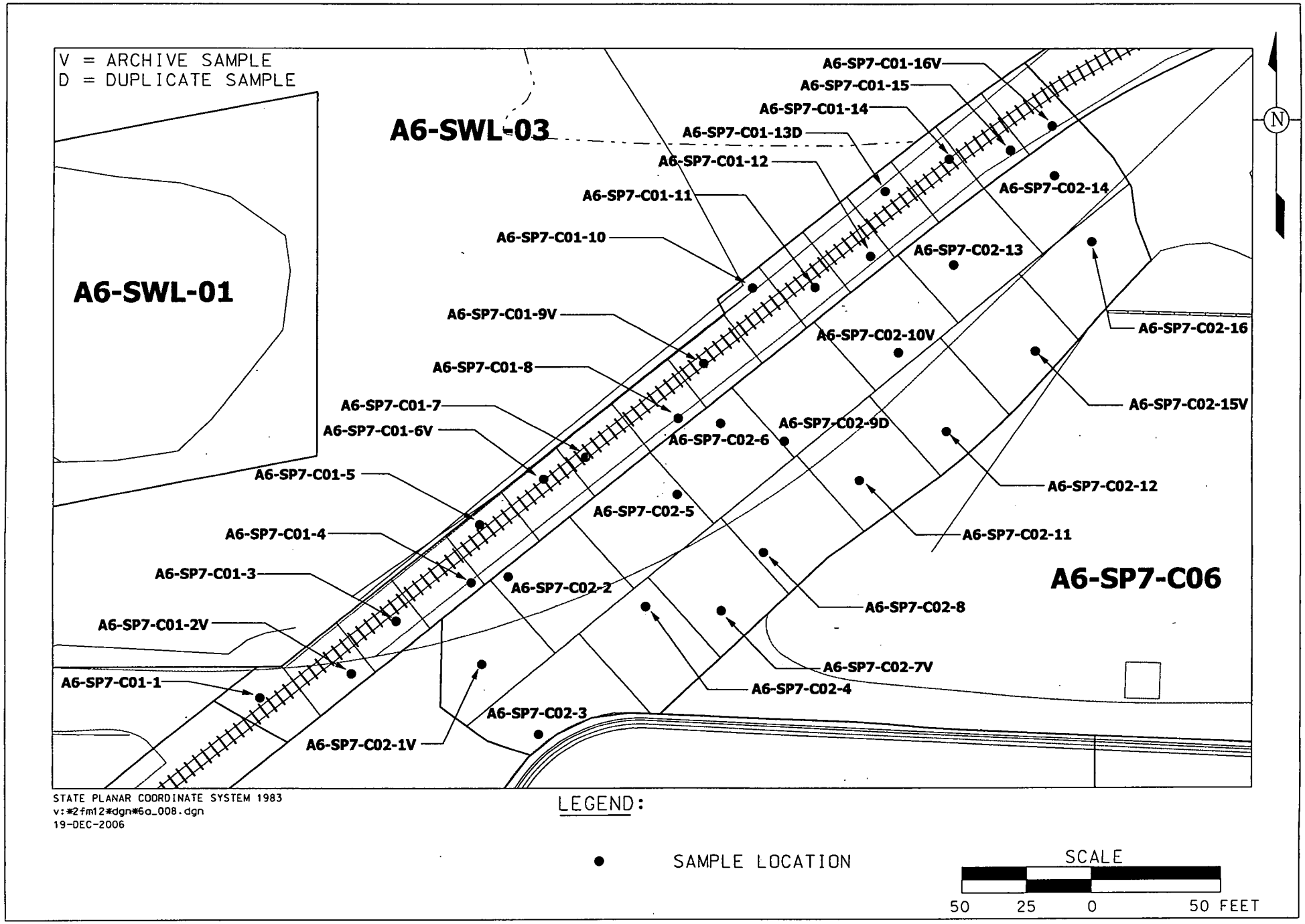

FIGURE 2-4. SP-7 FOOTPRINT SUB-CU BOUNDARY AND CERTIFICATION SAMPLING LOCATIONS (CUs A6-SP7-C01 & A6-SP7-C02)

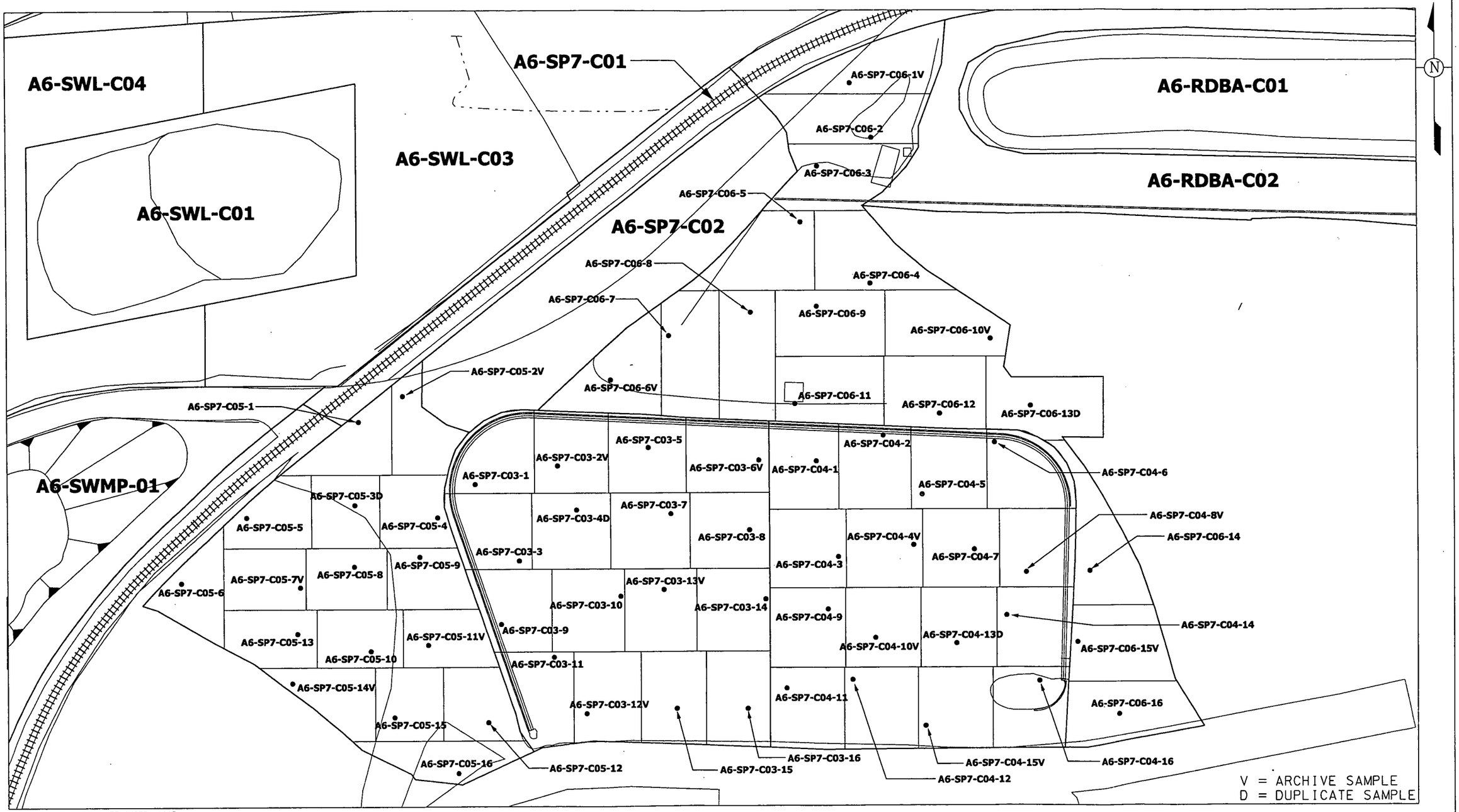

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FIGURE 2-5. SP-7 FOOTPRINT SUB-CU BOUNDARY AND CERTIFICATION SAMPLING LOCATIONS (CUs A6-SP7-C03 THROUGH A6-SP7-C06)

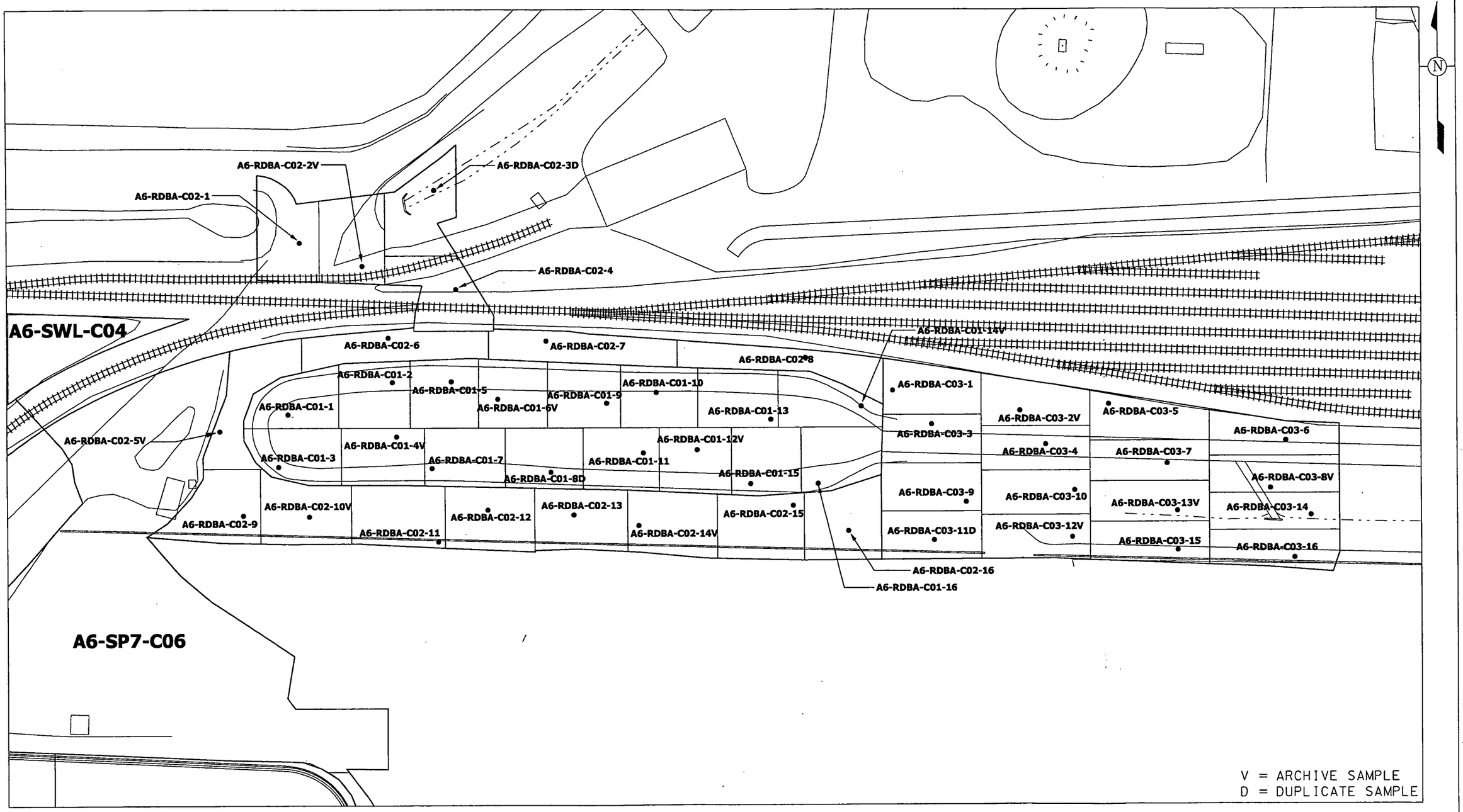

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FIGURE 2-6. RAILROAD DRAINAGE BASIN AREA SUB-CU BOUNDARY AND CERTIFICATION SAMPLING LOCATIONS

3.0 OVERVIEW OF FIELD ACTIVITIES

In accordance with the SEP, prior to conducting precertification and certification activities, all soil demonstrated to contain contamination above the associated FRLs or other applicable action levels were evaluated for remedial actions.

In addition to the Predesign Investigations, the OU2 and OU5 RI Reports (DOE 1995c, DOE 1995a) and Feasibility Study Reports (FS, DOE 1995d) were used for remedial design of the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin Area. Final grade excavation monitoring/sampling and real-time scanning/sampling data have been collected pursuant to the RI/FS and remedial activities.

Before initiating the certification process, all historical soil data within the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin Area areas was pulled from the Sitewide Environmental Database (SED). Based on the results of sampling and scanning activities summarized below, it was determined that no further remedial actions were necessary to remove above-FRL or above-WAC soil.

3.1 AREA PREPARATION AND PRECERTIFICATION

3.1.1 Former Solid Waste Landfill

Historical, Predesign and Excavation Control

Prior to the excavation of the solid waste in the SWL, the historical data was reviewed and predesign sampling was completed per the PSP for Predesign Sampling in the Solid Waste Landfill and the Fire Training Facility (DOE 2001) to determine the nature and extent of contamination present. Additionally, samples were collected to fill in any data gaps left in this area. Data were also collected to bound above-WAC and above-FRL areas with physical sampling as well as to confirm the location of surface above-WAC areas using real-time measurement systems. The results of the investigation are presented in the Implementation Plan for Area 6 Solid Waste Landfill (DOE 2003a). Once the solid waste was excavated from the Solid Waste Landfill, additional predesign sampling was performed per the PSP for Area 6 Subareas 3 and 4 (DOE 2005a) to determine the extent of contamination in the surrounding area. The results of this investigation are presented in the Excavation Plan for Area 6 Waste Pits and General Area (DOE 2005b).

Excavation of the former SWL began in December 2003 with the removal of the solid waste as described in the Implementation Plan for Area 6 Solid Waste Landfill and Fire Training Facility (DOE 2003a). The footprint and surrounding area was excavated beginning in the fall of 2005 under the Excavation Plan for Area 6 Waste Pits and General Area. In addition to the removal of contamination present in areas designated as above-FRL all utilities were removed as part of the remediation process. These activities are presented in the Excavation Plan for Area 6 Waste Pits and General Area.

Precertification

According to guidelines established in Section 3.3.3 of the SEP, precertification activities were conducted to evaluate residual radiological contamination patterns as specified in the PSP for Excavation Control and Precertification of Area 6 Waste Pits and General Area (Supplement to 20300-PSP-0011) (DOE 2005b). The Former Solid Waste Landfill passed precertification criteria.

3.1.2 Soil Pile 7 Footprint

Historical, Predesign and Excavation Control

Prior to beginning predesign in SP-7, all historical data from the area was reviewed. Predesign samples were then collected to determine the nature and extent of the contamination as well as to fill in any existing data gaps. Data were also collected to bound above-WAC and above-FRL areas with physical sampling as well as to confirm the location of surface above-WAC areas using real-time measurement systems. The results of the investigations are presented in the Excavation Plan for Area 6 Waste Pits and General Area.

Excavation of soil and debris from SP-7 has been ongoing until August 2006. Excavation of contamination, designated as either above-WAC or above-FRL, from the footprint of SP-7, has been completed following removal of stockpiled soil and debris. In addition to the removal of contamination present in areas designated as either above-WAC or above-FRL, existing at-grade concrete and asphalt pads/roads as well as utilities were excavated as part of the remediation process. These activities are presented in the Excavation Plan for Area 6 Waste Pits and General Area.

Precertification

As part of the remediation process, utilities were removed after all excavation was completed to design grade and precertification had been completed. Once the utility had been removed as required by the technical specification, precertification was performed on the trench bottom created by the removal of these utilities and then back-filled with the precertified overburden soil. These sampling events took place as described in Variance/Field Change Notice (V/FCN) 20600-PSP-0016-102, written to the PSP for Excavation Control and Precertification of the Area 6 Waste Pits and General Area, and are included in Appendix A, Attachment A.1. Sample A6SP7-T-8 failed the hotspot criterion for aroclor-1254 with a result of 462 μg/kg therefore this location was excavated. Following excavation, two samples, A6SP7-T-12 and A6SP7-T-13, were collected for aroclor-1254 under V/FCN 20600-PSP-0016-108. Both of the post-excavation samples were below the FRL for aroclor-1254 (130 μg/kg). All sample locations for utility removal are shown on Figure 3-1. The aroclor-1254 and aroclor-1260 data, statistical analysis for aroclor-1260, and all of the sample results for utility removal are included in Appendix A, Attachment A.2

In addition to physical sampling due to utility removal, physical samples were also collected from the excavated footprint of the Lime Scale Pit and the Dump Pit, which are both in the footprint of SP-7. The approximate locations of these two pits are shown on Figure 3-2 and the sample locations are shown on Figures 3-3 and 3-4. This sampling was completed under V/FCN 20600-PSP0016-104, which is provided in Appendix A, Attachment A.1. Multiple locations from each pit required excavation due to above-FRL results, and re-sampling was completed under V/FCNs 20600-PSP-0016-112 and 113, which are provided in Appendix A, Attachment A.1. All of the data are provided in Appendix A, Attachment A.3, and the excavated sample locations are noted. The highest post-excavation sample result for each analyte was also included in the statistical analysis for their respective CU location – the Lime Scale Pit falls within CU A6-SP7-C06 and the Dump Pit falls in CU A6-SP7-C02.

Precertification real-time scanning activities were completed according to guidelines established in Section 3.3.3 of the SEP. These activities were conducted to evaluate residual radiological contamination patterns as specified in the PSP for Excavation Control and Precertification of Area 6 Waste Pits and General Area. The SP-7 footprint passed precertification criteria.

3.1.3 Stormwater Management Pond

Precertification

According to guidelines established in Section 3.3.3 of the SEP, precertification activities were conducted to evaluate residual radiological contamination patterns as specified in the PSP for Excavation Control and Precertification of Area 6 Waste Pits and General Area. The Stormwater Management Pond passed precertification criteria.

3.1.4 Railyard Drainage Basin Area

Precertification

According to guidelines established in Section 3.3.3 of the SEP, precertification activities were conducted to evaluate residual radiological contamination patterns as specified in the PSP for Excavation Control and Precertification of Area 6 Waste Pits and General Area. The Railyard Drainage Basin Area passed precertification criteria.

3.2 CHANGES TO SCOPE OF WORK

The scope of work for the former SWL, SP-7 footprint, SWM Pond, and Railyard Drainage Basin Area required several changes that were documented with V/FCNs (Appendix B) and are discussed below.

Sub-CU A6-SWL-C02-2 had a result of 41,100 μg/kg for benzo(a)pyrene, which is greater than two times the FRL of 2000 μg/kg, (the field duplicate result was 331 μg/kg). Prior to excavation of the sample location, V/FCN 20600-PSP-0021-01 documented the collection of a random sample for benzo(a)pyrene

within the same sub-CU. Following excavation of the above-FRL location, another sample was taken at the same location, and was documented in V/FCN 20600-PSP-0021-02. The two newly collected samples replace the previously collected samples and were used in the final statistical analyses (Appendix C.2) for this CU, which demonstrate that CU A6-SP7-C02 pass the certification criteria.

V/FCN 20600-PSP-0021-03 documents the collection of soil samples from CU A6-SP7-C05 and A6-SP7-C06 following excavation of above-FRL sample locations in the SP-7 footprint that contributed to these CUs failing certification statistics. The original samples exceeded the FRLs for radium-228, thorium-228, thorium-232, and total uranium in both sub-CUs and for radium-226 in sub-CU A6-SP7-C05. The statistical analysis of this initial sampling is provided in Appendix C.1. Following excavation of the two locations, a physical sample was collected from the original sample locations as well as one random sample within each sub-CU to investigate the presence of residual contamination and to ensure that the sub-CU was adequately represented. The newly collected samples replace the previously collected samples and were used in the final statistical analyses (Appendix C.2) of these CUs, which demonstrate that CUs A6-SP7-C05 and A6-SP7-C06 pass the certification criteria.

V/FCN 20600-PSP-0021-04 documents the collection of soil samples from CU A6-SP7-C03 and A6-SP7-C04 following the excavation of above-FRL sample locations that contributed to these CUs failing certification statistics. The above-FRL sample locations were A6-SP7-C03-15 (total uranium, aroclor-1254, and aroclor-1260), A6-SP7-C04-9 (total uranium), A6-SP7-C04-12 (total uranium and aroclor-1254), and A6-SP7-C04-13 (total uranium). The statistical analysis of this initial sampling is provided in Appendix C.1. Following excavation of the four locations, a physical sample was collected from the original sample locations as well as one random sample within each sub-CU to investigate the presence of residual contamination and to ensure that the sub-CU was adequately represented. The results of this sampling demonstrated that CU A6-SP7-C03 passed the certification criteria for total uranium, aroclor-1254, and aroclor-1260 the newly collected samples for CU A6-SP7-C03 replace the previously collected samples and were used in the statistical analyses (Appendix C.2) of these CUs, which show that CU A6-SP7-C03 pass the certification criteria. However, CU A6-SP7-C04 still demonstrated failing conditions for total uranium and aroclor-1254, which required additional excavation and sampling. This is documented in V/FCNs 20600-PSP-0021-05 and 06 below

V/FCN 20600-PSP-0021-05 documents the collection of soil samples from A6-SP7-C04 following excavation of above-FRL (total uranium) sample locations A6-SP7-C04-18 (originally sub-CU A6-SP7-C04-9, which was excavated and then sampled under V/FCN 20600-PSP-0021-04) and A6-SP7-C04-20 (originally sub-CU A6-SP7-C04-13, which was excavated and then sampled under V/FCN 20600-PSP-0021-04). One physical sample was collected from both of the original sample locations and one an additional random location within each sub-CU. The newly collected samples replace the

previously collected samples and were used in the statistical analyses (Appendix C.2) of this CU, which demonstrate that CU A6-SP7-C04 pass the certification criteria for total uranium.

V/FCN 20600-PSP-0021-06 documents the collection of three soil samples from A6-SP7-C04 following excavation of above-FRL (aroclor-1254) sample locations A6-SP7-C04-17 and A6-SP7-C04-22. These locations were originally in sub-CU A6-SP7-C04-12, which was excavated and then sample under V/FCN 20600-PSP-0021-04. Following excavation of these two locations, a physical sample was collected from both of the original sample locations as well as an additional random sample within this sub-CU to investigate the presence of residual contamination and to ensure that the sub-CU was adequately represented. The newly collected samples replace the previously collected samples and were used in the statistical analyses (Appendix C.2) of these CUs, which demonstrate that CU A6-SP7-C04 pass the certification criteria for aroclor-1254.

There were no changes to the scope of work for the Stormwater Management Pond and Railyard Drainage Basin areas.

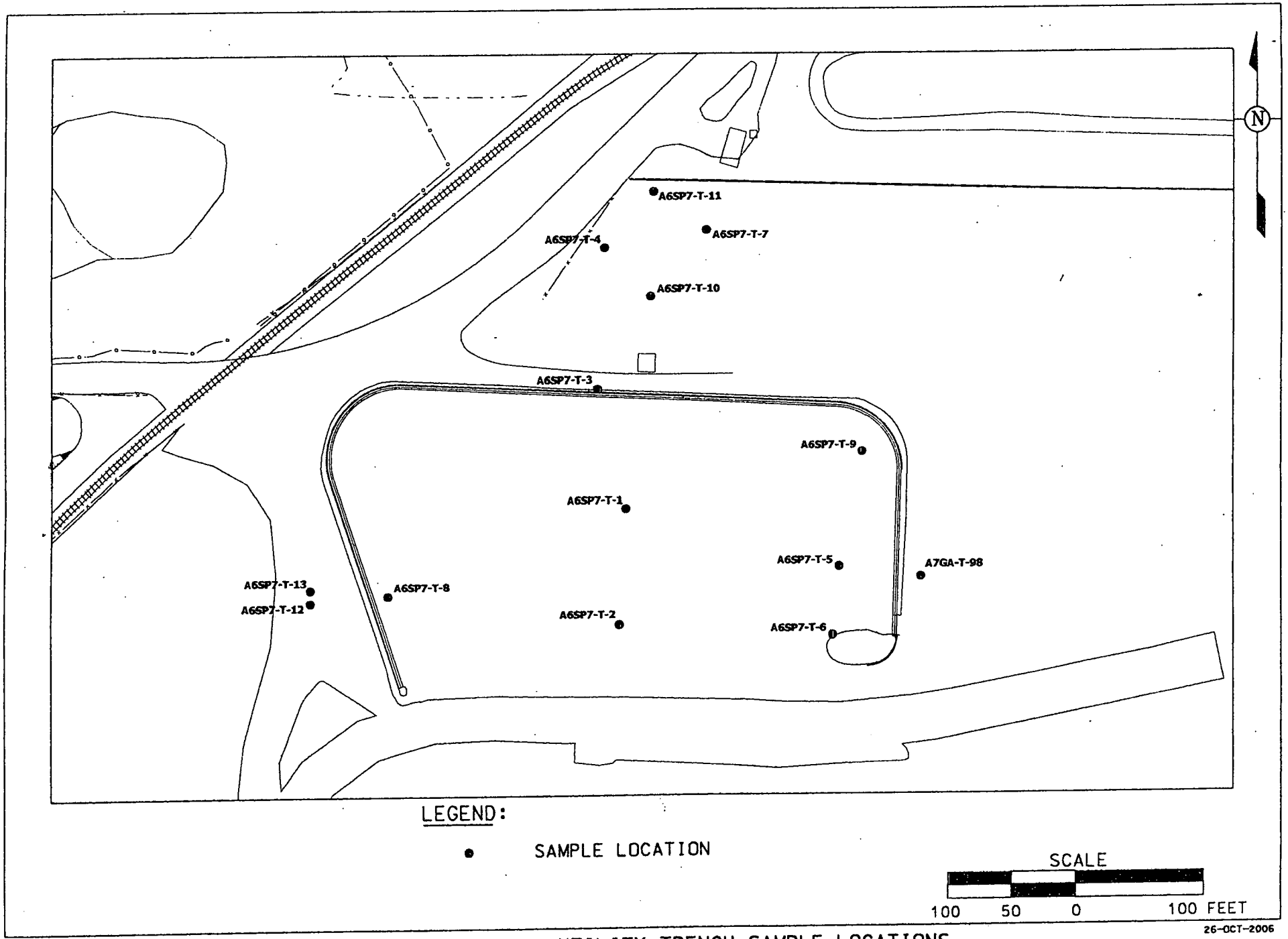

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FIGURE 3-1. UTILITY TRENCH SAMPLE LOCATIONS

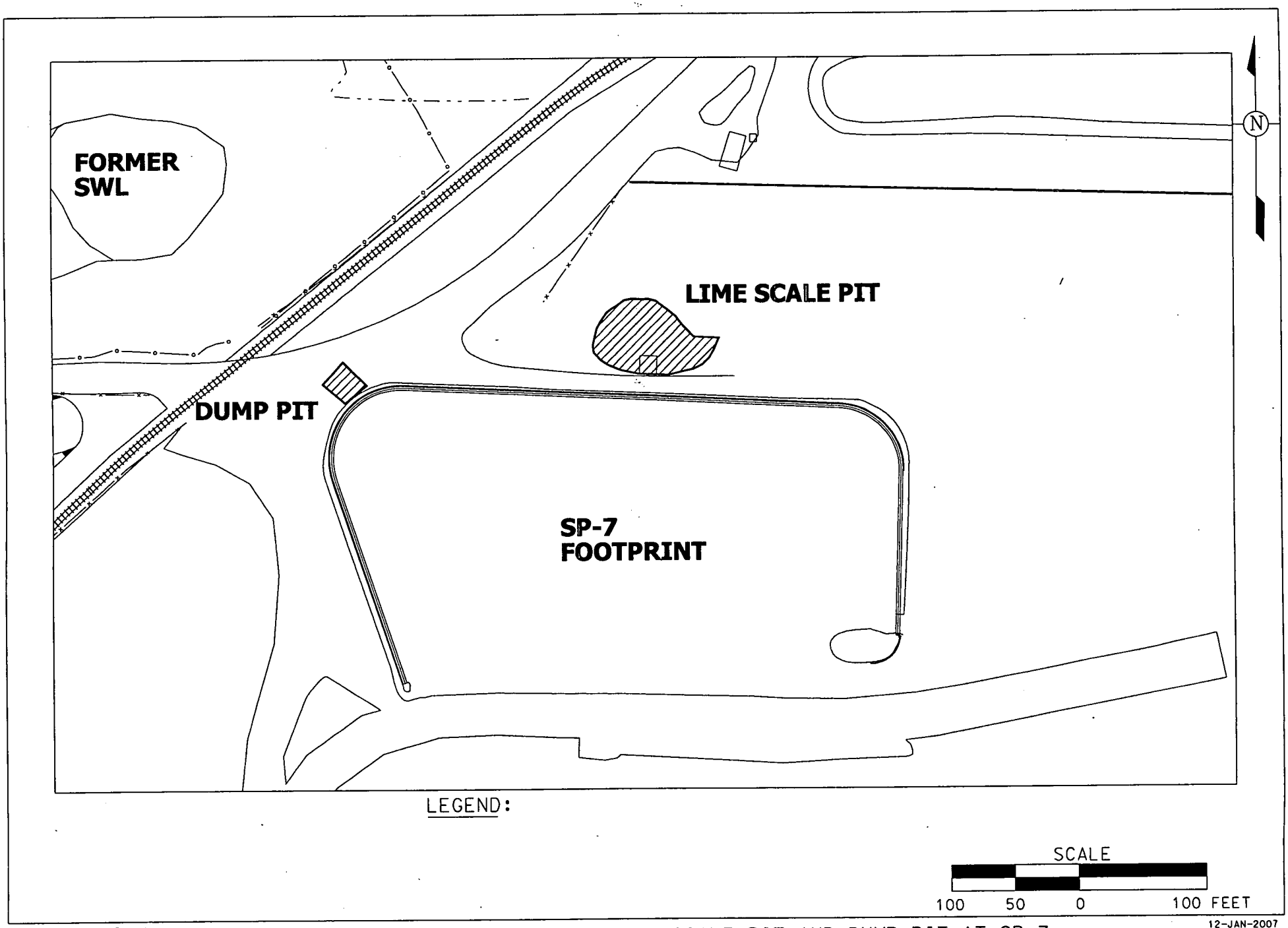

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FIGURE 3-2. LOCATION OF LIME SCALE PIT AND DUMP PIT AT SP-7

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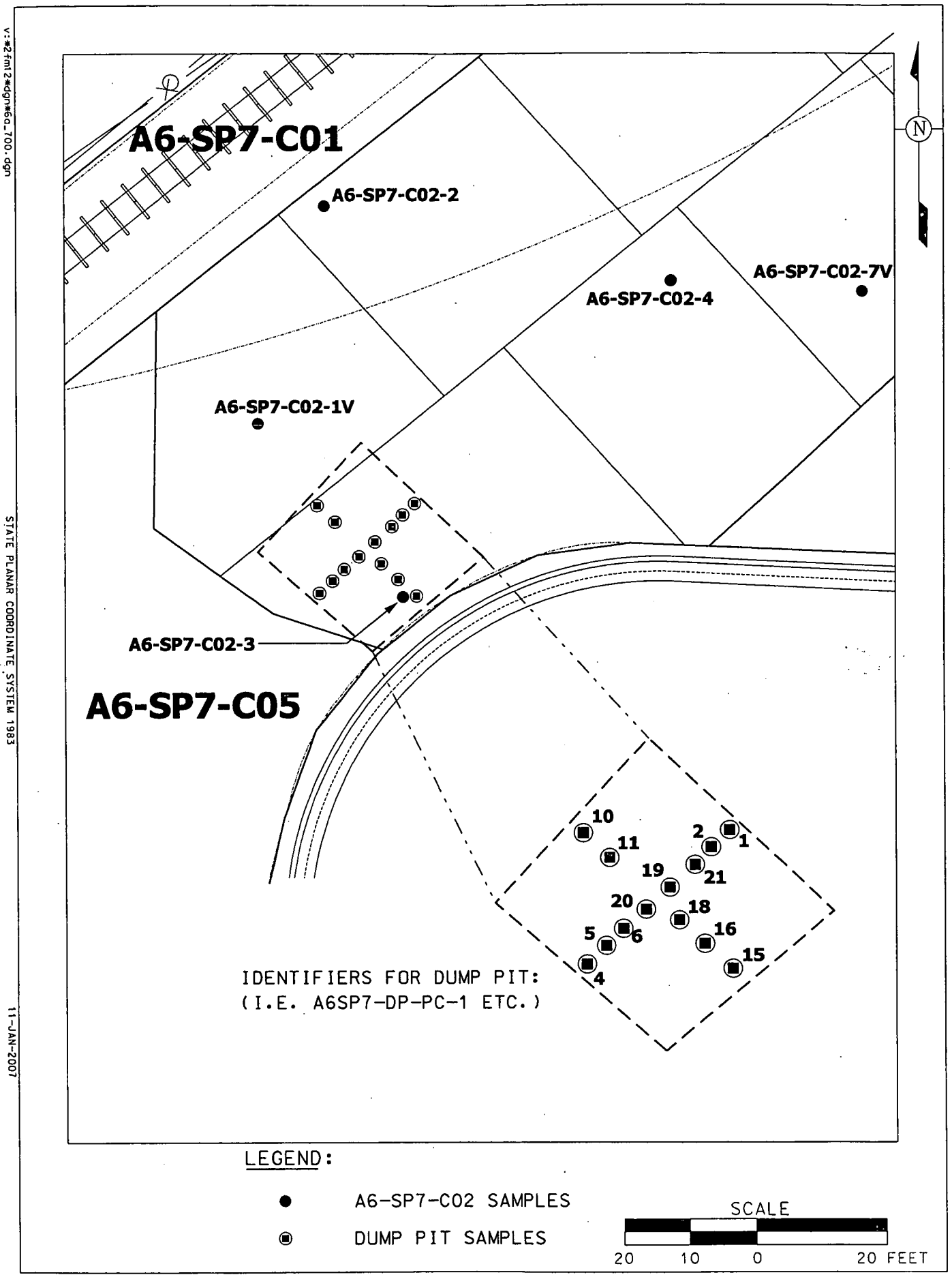

FIGURE 3-3. SAMPLE LOCATIONS FOR THE DUMP PIT WITHIN A6-SP7-C02

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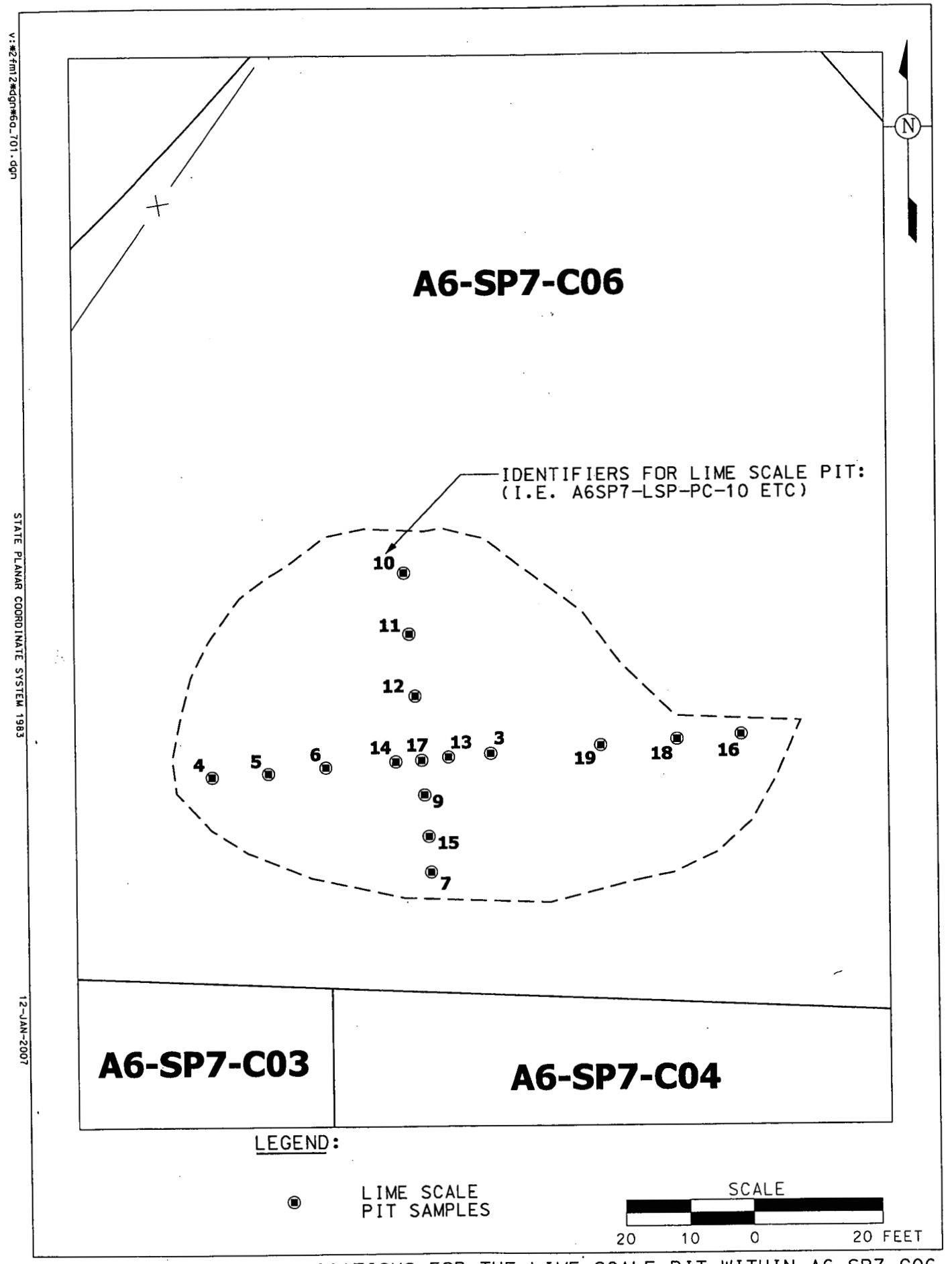

FIGURE 3-4. SAMPLE LOCATIONS FOR THE LIME SCALE PIT WITHIN A6-SP7-C06

4.0 ANALYTICAL METHODOLOGIES, DATA VALIDATION PROCESSES, AND DATA REDUCTION

4.1 ANALYTICAL METHODOLOGIES

All samples collected were sent off-site for analysis. The laboratories complied with Sitewide Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Quality Assurance Project Plant (SCQ) requirements (DOE 2003c). The SCQ is the source for analytical methodologies (Appendix G), data verification and validation, and analytical quality assurance/quality control requirements.

Laboratory analysis of certification samples was conducted using approved analytical methods, as discussed in Appendix H of the SEP. The minimum detection level (MDL) was set at 20 percent of the FRL and analyses were conducted to Analytical Support Level (ASL) D or E, where the MDL of 20 percent of the FRL is above the SCQ ASL detection level, but the analyses meet all other SCQ ASL D criteria. ASL D data packages were provided for all of the analytical data. All data were validated. Once data were validated as required, results were entered into the FCP SED. Final certification results are provided in Appendix C, and a summary of the analytical methods follows:

4.1.1 Chemical Methods

Metals

Samples submitted for metals analysis, with the exception of mercury, were analyzed by inductively coupled plasma-mass spectrometry.

Samples submitted for mercury analysis were analyzed by cold vapor atomic absorption.

Volatile Organic Compounds (VOCs)

Samples submitted for VOC analyses were analyzed by gas chromatography/mass spectrometry.

Semi-Volatile Organic Compounds (SVOCs)

Samples submitted for SVOC analysis were analyzed by gas chromatography/mass spectrometry.

Pesticides/Polychlorinated Biphenyls (Pest/PCBs)

Samples submitted for pesticide or PCB analysis were analyzed by gas chromatography.

4.1.2 Radiochemical Methods

The radiochemical analytical methods use performance-based specification criteria, including highest allowable minimum detectable concentration (HAMDC), matrix spike, ASCOC concentrations in method blank, percent recovery of tracer, matrix spike and laboratory control sample, and percent recovery for

duplicate samples were specified for each analyte. Laboratories were required to meet these specifications for the following radionuclides:

Uranium-238

Samples are analyzed for uranium-238 progeny using multiple gamma rays, and the error-weighted average of the emission lines is used to report uranium-238 activity. The uranium-238 activity is used to calculate the total uranium value as follows:

$$\text{Total Uranium (mg/kg)} = 2.998544 \text{ (mg/pCi * g/kg)} \times \text{Uranium-238 (pCi/g)}$$

The validation qualifier assigned to the total uranium value is the same as the uranium-238 qualifier.

Radium-226

Following a 7-day in-growth for radon-222 (Appendix D), radium-226 progeny are measured using multiple gamma rays, and the error-weighted average of the emission lines is used to report radium-226 activity.

Radium-228 and Thorium-232

Samples are analyzed for radium-228 and thorium-232 progeny using multiple gamma rays, and the error-weighted average of the emission lines is used to report radium-228 and thorium-232 activities. The identical activity is reported for radium-228 and thorium-232, as they are assumed to be in secular equilibrium with the measured daughter.

Thorium-228

Thorium-228 is quantified by direct measurement of its gamma emission lines, and the error-weighted average of the emission lines is used to report the activity.

Cesium-137

Cesium-137 is quantified by direct measurement of its gamma emission lines, and the error-weighted average of the emission lines is used to report the activity.

Technetium-99

Following a chemical separation, technetium-99 is quantified using a liquid Scintillation counter.

Thorium-230

Thorium-230 is quantified by measuring its characteristic alpha emission energies and correcting the activity based on the yield of a thorium-229 tracer.

Lead-210

Lead-210 progeny are measured using multiple gamma rays, and the error-weighted average of the emission lines is used to report lead-210 activity.

4.2 DATA VERIFICATION AND VALIDATION

This section discusses the data verification and validation (V&V) process used to examine the quality of field and laboratory results. Data were qualified to indicate the level of data usability, or level of confidence in the reported analytical results. The U.S. Environmental Protection Agency (EPA) National Functional Guidelines for Data Review (Inorganic Data) (EPA 1994), as adapted and approved by EPA Region V, as well as Section 11.2 and Appendix D of the SCQ, was used for this process.

Specific parameters associated with the data were evaluated during V&V to determine whether or not the data quality objectives were met. Five principal Quality Assurance parameters (i.e., precision, accuracy, completeness, comparability, and representativeness) were addressed during V&V. Field sampling and handling, laboratory analysis and reporting, and non-conformances and discrepancies in the data were examined to ensure compliance with appropriate and applicable procedures.

The V&V process evaluated the following parameters:

- Specific field forms for sample collection and handling
- Chain of Custody forms
- Completeness of laboratory data deliverable.

The data validation process examined the analytical data to determine the validation qualifier of the results. General areas examined that apply to all the chemical data include the following:

- Holding Times
- Instrument calibrations
- Calculation of results
- Matrix spike/matrix spike duplicate recoveries
- Laboratory/field duplicate precision
- Field/Laboratory Blank contamination
- Dry weight correction for solid samples
- Correct detection limits reported
- Laboratory control sample recoveries and compliance with established limits.

Parameters unique to the evaluation of radiochemical analyses include:

- Calibration data for specific energies
- Background checks
- Relative Error ratios
- Detector efficiencies
- Background count correction.

For this project, all the radiological data were reviewed and validated for all criteria noted above. Per project requirements, a minimum of 10 percent of the certification data were validated to Level D. This validation included the same review process as for Level B, but included a systematic review of the raw data and recalculations

Following V&V, qualifier codes were applied to specific data points, reflecting the level of confidence assigned to the particular datum. These codes included:

- No qualification; the positive result or detection limit is confident as reported

J Positive result is estimated or imprecise; data point is usable for decision-making purposes. Positive results less than the contract required reporting limit are also qualified in this manner

R Positive result or detection limit is considered unreliable; data point should not be used for decision-making purposes

U Undetected result at the stated limit of detection

UJ Undetected result; detection limit is considered estimated or imprecise; the data point is usable for decision-making purposes

N Positive result is tentatively identified - that is, there is some question regarding the actual identification and quantification of the result. Compound reported is best professional judgment of the interpretation of the supporting data, such as mass spectra. Caution must be exercised with the use of these data

NV Not Validated. The results for this sample were not validated

Z This result, or detection limit in this analysis is not the best one to use; another analysis (e.g., the dilution or re-analysis) contains a more confident and usable result.

The V&V of this data set did not identify any problems. All results were either not qualified, qualified as estimated (J) and/or non-detects (U). No results were qualified as rejected (R).

4.3 DATA REDUCTION

Each sample used to support the certification decision was entered in the SED with the following information:

Field Information

- Sample Identification Number - A unique number assigned to each discrete sample point
- Coordinate Information - Northing and Easting locations.

Using the information as summarized above, the following actions were taken for data reduction of each CU data set.

1. All of the data for each CU were queried from SED. All of the data were used even if the CU had more than the minimum required data points.
2. The data from the validation fields were used for statistical calculations.
3. Data with a qualifier of R or Z was not used in the statistical calculations.
4. The higher of the two duplicate results was used in the statistical calculations.
5. One half on the non-detect (U or UJ) values were used in the statistical calculations.

Laboratory Information

For each sample result the following information is entered:

- Laboratory Result - The reported analytical value from the laboratory
- Laboratory Qualifier - The qualifier reported from the lab. For radiological parameters non-detect values are assigned a U qualifier
- Total Propagated Uncertainty (TPU) - The TPU is an estimate of the overall uncertainty associated with a measured or calculated result that has been derived from an evaluation of all factors that can influence a result, including both systematic and random sources of uncertainty. For both *in situ* and laboratory-based radioactivity measurements, factors such as the random nature of the radioactive decay process (i.e., counting uncertainty), the mass or volume of the "sample" being analyzed, the variation in radiation detection efficiency with the energy of the emitted radiation and the density and chemical composition of the sample, uncertainty in nuclear decay parameters used to convert counts to activity, and attenuation of the radiation must be considered to properly asses the overall uncertainty of the measured result.
- Units - The units in which the Laboratory Result is reported.

Validation Information

- Validation Result - The result based on the validation process. During the validation process, sample results may be adjusted. If the laboratory result is less than the associated minimum detectable concentration, the validation result becomes the minimum detectable concentration value.

- Validation TPU - The TPU based on the validation process (applicable to radiological parameters only). The data Validation Section evaluates the reported TPU as described in the SCQ in Section 11.2 and Appendix D to assess the impact on the data quality and will qualify the data as estimated if the uncertainty is excessive.

- Validation Qualifier - The qualifier assigned as a result of the data validation process.

- Validation Units - The units in which the Validation Result is reported.

5.0 CERTIFICATION EVALUATION AND CONCLUSIONS

Certification success or failure was based on sample data from each CU against criteria discussed in Section 2.3. Subsequent to any evaluation of preliminary data, full statistical analysis and evaluation was performed on all validated data. Final certification data are presented in Appendix C.

5.1 CERTIFICATION RESULTS AND EVALUATION

CUs A6-SWL-C01 through A6-SWL-C04, A6-SWMP-C01, A6-SP7-C01, A6-SP7-C02, and A6-RDBA-C01 through A6-RDBA-C04

All of the above listed CUs passed the certification criteria as outlined in Section 2.3. Final certification data are presented in Appendix C.

A6-SP7-C03

Certification results for total uranium failed the 95 percent UCL criterion; results for aroclor-1254 and aroclor-1260 failed the hotspot criterion. Remedial actions were taken to remove the contamination and new certification samples were collected, as discussed in Section 3.2. Using the new samples results, the CU passed certification.

A6-SP7-C04

Certification results for total uranium failed the a posteriori sample size calculation and the 95 percent UCL criterion; results for aroclor-1254 failed the hotspot criterion. Remedial actions were taken to remove the contamination at new certification samples were collected, as discussed in Section 3.2. Using the new sample result, the CU passed certification.

A6-SP7-C05

Certification results for radium-226 failed the hotspot criterion. The sample location that caused the hotspot failure also had above-FRL results for radium-228, thorium-228, thorium-232, and total uranium. While these analytes passed statistical analysis, excavation was necessary due to the radium-226 hot spot. Following the remediation, new certification samples were collected, as discussed in Section 3.2. Using the new sample results, the CU passed certification.

A6-SP7-C06

Certification results for total uranium failed the 95 percent UCL criterion as well as the hotspot criterion for radium-228, thorium-228, and thorium-232. Remedial actions were taken to remove the contamination and new certification samples were collected, as discussed in Section 3.2. Using the new sample results, the CU passed certification.

5.2 CERTIFICATION CONCLUSIONS

Based on the certification analytical results, precertification data, and statistical analysis, DOE has determined that the remedial objectives in the OU5 ROD have been achieved for the former SWL, SP-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area, and no further remedial actions are required.

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U.S. Department of Energy, 2003b, "Project Specific Plan for Excavation Control and Precertification of Area 6 Waste Pits and General Area," Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.

U.S. Department of Energy, 2003c, "Sitewide Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Quality Assurance Project Plan (SCQ)," Revision 3, Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.

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U.S. Department of Energy, 2005b, "Excavation Plan for Area 6 Waste Pits and General Area," Final, Fernald Closure Project, DOE, Fernald Area Office, Cincinnati, Ohio.

U.S. Department of Energy, 2006, "Certification Design Letter and Certification Project Specific Plan for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area" Final, Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.

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APPENDIX A

PRECERTIFICATION VARIANCE/FIELD CHANGE NOTICES AND PRECERTIFICATION PHYSICAL SAMPLE DATA

ATTACHMENT A.1

PRECERTIFICATION VARIANCE/FIELD CHANGE NOTICES

VARIANCE / FIELD CHANGE NOTICE		V/F: 20600-PSP-0016-102
WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0016 Rev.0		Page: 1 of 4
PROJECT TITLE: Project Specific Plan For Excavation Control And Precertification of the Area 6 Waste Pits and General Area		Date: 06/30/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of physical soil samples for precertification of the soil beneath the bedding of excavated utilities located in Area 6 SP-7. Construction will be excavating known utilities; however, the possibility exists that unknown utilities will be uncovered during excavation. All sampling locations will be field located approximately every fifty feet along the bottom of the excavation. All samples will be collected from the bottom of the excavation from the bucket of an excavator (if necessary) or from patties created to represent the sample locations after the piping and bedding material has been removed. The goal will be to collect samples from the top six inches of soil from the bottom of the excavation. Additionally, if there is evidence of leakage from the piping (e.g. broken, cracked, or disjointed piping, stained or discolored soil), then a biased sample location will be flagged and samples will be collected from the floor and both sidewalls approximately one foot from the floor of the excavation.

The TALs area listed on Attachment 1 and the Sampling and Analytical Requirements are listed on Attachment 2.

The estimated number of sample locations is ~~50~~ 20 Kef. The sample identifiers from the first location shall be A6SP7-T-1^RMPS and A6SP7-T-1^L and each additional sample ID will be sequentially numbered (e.g. second sample ID is A6SP7-T-2^RMPS and A6SP7-T-2^L). Additionally, trip blank samples will be collected for the VOC samples at a rate of 1 per 20 VOC samples collected, 1 per day, or 1 per cooler whichever is more frequent. The first sample identifier for the trip blanks shall be A6SP7-T-L-TB1 and each sample ID will be sequentially numbered (e.g. A6SP7-T-L-TB2).

Where:

A6SP7 = Area 6 Soil Pile 7 Area
T = trench
1, 2, 3, etc. = Consecutive Sample Numbers (Locations)
R = Radiological analysis; M=Metals; P=Pesticides/PCBs; S = Semi-Volatile Organic Compounds;
L = Volatile Organic Compounds;
TB = Trip Blank

Field Sketch Required: Yes
Surveying Required: Yes. Coordinates will be provided by the Real-time Department
Field QC samples required: Yes, trip blank samples are required for the VOC samples (see above).

Justification:

Because the utilities in this area are so deep, it is necessary to backfill the trenches after the utilities have been removed in order to ensure the area is left in a safe condition. Therefore, samples will be collected from the bottom of the excavation prior to backfilling the trenches similarly to the sampling performed during the excavation of the Abandoned Outfall Line.

REQUESTED BY: Krista Flaugh — Date: 06/30/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske	7-13-06	X	PROJECT MANAGER: J.D. Chiou	7/5/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: F. Miller	30 Jun 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul S. McIntyre	7/5/06		RTIMP Manager	
X	WAO	7-12-06	X	SAMPLING MANAGER: T. Buhrlage T.E.B.	7/5/06

VARIANCE/FCN APPROVED [X]YES [ ]NO — REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Frank Miller	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

20600-PSP-0016-B5
(approximatley 20 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Thorium-230	280 pCi/g	28 pCi/g
Total Uranium	82 mg/kg	8.2 mg/kg
Ra-226	1.7 pCi/g	0.17 pCi/g
Ra-228	1.8 pCi/g	0.18 pCi/g
Th-228	1.7 pCi/g	0.17 pCi/g
Th-232	1.5 pCi/g	0.15 pCi/g
Tc-99	30.0 pCi/g	2.9 pCi/g

20600-PSP-0016-B7
(approximatley 20 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Pb-210	38 pCi/g	3.8 pCi/g

20600-PSP-0016-B8
(approximatley 20 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Neptunium-237	3.2 pCi/g	0.32 pCi/g

20600-PSP-0016-B9
(approximatley 20 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Arsenic	12 mg/kg	1.2 mg/kg
Barium	68000 mg/kg	200 mg/kg
Beryllium	1.5 mg/kg	0.15 mg/kg
Cadmium	82 mg/kg	8.2 mg/kg
Chromium	300 mg/kg	30 mg/kg
Lead	400 mg/kg	40 mg/kg
Mercury	7.5 mg/kg	0.75 mg/kg
Selenium	5400 mb/kg	10 mg/kg
Silver	29000 mg/kg	40 mg/kg

TAL 20600-PSP-0016-A2
(approximatley 20 soil analysis specified in V/FCN)

Component	FRL	MDL
Aroclor-1254	0.13 mg/kg	0.013 mg/kg
Aroclor-1260	0.13 mg/kg	0.013 mg/kg
Dieldrin	0.015 mg/kg	0.0015 mg/kg

TAL 20600-PSP-0016-A3
(approximatley 20 soil analysis specified in V/FCN)

Component	FRL	MDL
Bromodichloromethane	4 mg/kg	0.4 mg/kg
1,1-Dichloroethene	0.41 mg/kg	0.041 mg/kg
1,2-Dichloroethene	0.16 mg/kg	0.016 mg/kg
Methylene Chloride	37 mg/kg	3.7 mg/kg
Tetrachloroethene	3.6 mg/kg	0.36 mg/kg
Toluene	100000 mg/kg	10000 mg/kg
1,1,1-Trichloroethane	4.3 mg/kg	0.43 mg/kg
Trichloroethene	25 mg/kg	2.5 mg/kg
Total Xylenes	920000 mg/kg	92000 mg/kg

20600-PSP-0016-P
(approximatley 20 soil analysis specified in V/FCN)

Component	FRL	MDL
Benzo(a)pyrene	1.0 mg/kg	0.1 mg/kg
Benzo(b)fluoranthene	1.0 mg/kg	0.1 mg/kg
Dibenzo(a,h)anthracene	0.088 mg/kg	0.01 mg/kg
Indeno(1,2,3-cd)pyrene	1.0 mg/kg	0.1 mg/kg

ATTACHMENT 2

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL(s)	Method	ASL	Matrix	Preserve	Hold Time	TAT	Container[a]	Minimum Mass/Volume
Rads/Metals/PCBs/ SVOCs (TALs B5, B7, B8 / B9 / A2 / P)	Gamma Spec, Alpha Spec, and LSC	D/E	Solid	Cool, 4° C	12 months	EDD 10 days[b] Final 14 days	Glass with Teflon-lined Lid	600 g
	ICP or ICP/MS and CVAA				6 months (F is 28 days)	10 days		
	GC				14 days	10 days		
	GC				14 days	10 days		
VOCs (TAL A3)	GC/MS	D	Solid	Cool, 4° C	48 hours	10 days	3 x 1-Encore Sampler plus 1 x 2-oz jar for % moisture	Each full Encore Sampler will hold approx. 5 g
VOCs (TAL A3)	GC/MS	D	Liquid (trip blank only)	H_2SO_4 pH<2 Cool, 4° C	14 days	10 days	3 x 40-ml glass with teflon-lined septa	120 ml (no headspace)

[a] Sample container types may be changed at the direction of the Field Sampling Lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.

[b] One sample collected under this V/FCN will be selected for analysis utilizing a 21-day in-growth with a 30-day TAT for Ra-226 only. Samples with a 7-day in-growth will be denoted by a "7DAY" suffix while the sample chosen as a 21-day in-growth will be denoted by a "21DAY" suffix attached to the laboratory data.

Special Instructions

Field QC samples required: Yes, trip blank samples are required for the VOC samples
Analytical data validation required: Yes, VSL D
Data package requirements: ASL D (E)
Data for shipping: Real-Time Scanning
Total Uranium = 404 mg/kg
Radium-226 = 2.4 pCi/g
Thorium-232 = 1.6 pCi/g

VARIANCE / FIELD CHANGE NOTICE

[redacted]

V/F: 20600-PSP-0016-104

WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0016 Rev.0

Page: 1 of 4

PROJECT TITLE: Project Specific Plan For Excavation Control And Precertification of the Area 6 Waste Pits and General Area

Date: 08/15/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of physical soil samples for precertification of the soil from within the Lime Scale Pit as well as the dump pit located near the northwest loadout ramp, both which are located in Area 6 SP-7. Due to the depths of each of these pits, the samples will need to be collected from the bucket of an excavator. Coordinate the sampling activities with Keith Bodenbender, 484-2245.

The Lime Scale Pit is approximately 8' deep; the dump pit is approximately 10' deep. At each pit, sample locations will be marked every 50' along each sidewall, with a minimum of one location being marked on each sidewall. Samples are also to be collected from each sidewall for each "lift" within the pit (a lift is defined as each 4' excavation, and lift 1 represents the first 0-4' excavation, lift 2 represents the next 4-8' excavation; lift 3 represents the next 8-12' excavation). A mimimum of two locations are to be marked on the floor of each pit. The Lime Scale Pit will have two lifts, and the deep pit will have three lifts. [redacted]

Samples will be collected for each TAL identified on Attachment 1. The Sampling and Analytical Requirements are listed on Attachment 2.

The sample identifiers from the Lime Scale Pit shall be A6SP7-LSP-PC-1^RMPS and A6SP7-LSP-PC-1^L and each additional sample ID will be sequentially numbered (e.g. second sample ID is A6SP7-LSP-PC-2^RMPS and A6SP7-LSP-PC-2^L). The sample identifiers from the deep pit shall be A6SP7-DP-PC-1^RMPS and A6SP7-DP-PC-1^L and each additional sample ID will be sequentially numbered (e.g. second sample ID is A6SP7-DP-PC-2^RMPS and A6SP7-DP-PC-2^L). Additionally, trip blank samples will be collected for the VOC samples at a rate of 1 per 20 VOC samples collected, 1 per day, or 1 per cooler whichever is more frequent. The first sample identifier for the trip blanks shall be A6SP7-PC-L-TB1 and each sample ID will be sequentially numbered (e.g. A6SP7-PC-L-TB2). Where:

A6SP7 = Area 6 Soil Pile 7 Area
LSP = Lime Scale Pit
DP = Deep Pit
PC = Precertification
1, 2, 3, etc. = Consecutive Sample Numbers (Locations)
R = Radiological analysis; M=Metals; P=Pesticides/PCBs; S = Semi-Volatile Organic Compounds; L = Volatile Organic Compounds;
TB = Trip Blank

Field Sketch Required: Yes
Surveying Required: Yes. Samplers shall contact Surveying when sampling is complete.
Field QC samples required: Yes, trip blank samples are required for the VOC samples (see above).

Justification:

Precertification samples are being collected from each of these deep pits to ensure that the areas are below-FRL for the SP-7 ASCOCs.

15 dma 8/16/06

REQUESTED BY: Denise Arico Date: 08/16/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske	8-23-06	X	PROJECT MANAGER: J.D. Chiou	8/30/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz Denise M Arico for RA	8/16/06
X	ANALYTICAL/CUSTOMER SUPPORT: Pam B. McDorgan	8/16/06		RTMP Manager	
X dma	WAO 9/6/06		X	SAMPLING MANAGER: T. Burlage	8/21/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [X]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

20600-PSP-0016-B5
(approximatley 28 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Thorium-230	280 pCi/g	28 pCi/g
Total Uranium	82 mg/kg	8.2 mg/kg
Ra-226	1.7 pCi/g	0.3 pCi/g
Ra-228	1.8 pCi/g	0.3 pCi/g
Th-228	1.7 pCi/g	0.3 pCi/g
Th-232	1.5 pCi/g	0.3 pCi/g
Tc-99	30.0 pCi/g	2.9 pCi/g

20600-PSP-0016-B7
(approximatley 28 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Pb-210	38 pCi/g	3.8 pCi/g

20600-PSP-0016-B8
(approximatley 28 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Neptunium-237	3.2 pCi/g	0.32 pCi/g

20600-PSP-0016-B9
(approximatley 28 soil analysis specified in V/FCN)

Analyte	FRL	MDL
Arsenic	12 mg/kg	1.2 mg/kg
Barium	68000 mg/kg	200 mg/kg
Beryllium	1.5 mg/kg	0.15 mg/kg
Cadmium	82 mg/kg	8.2 mg/kg
Chromium	300 mg/kg	30 mg/kg
Lead	400 mg/kg	40 mg/kg
Mercury	7.5 mg/kg	0.75 mg/kg
Selenium	5400 mg/kg	10 mg/kg
Silver	29000 mg/kg	40 mg/kg

TAL 20600-PSP-0016-A2
(approximatley 28 soil analysis specified in V/FCN)

Component	FRL	MDL
Aroclor-1254	0.13 mg/kg	0.013 mg/kg
Aroclor-1260	0.13 mg/kg	0.013 mg/kg
Dieldrin	0.015 mg/kg	0.0015 mg/kg

TAL 20600-PSP-0016-A3
(approximatley 28 soil analysis specified in V/FCN)

Component	FRL	MDL (soil)	MDL (water)
Bromodichloromethane	4 mg/kg	0.4 mg/kg	10 ug/L
1,1-Dichloroethene	0.41 mg/kg	0.041 mg/kg	10 ug/L
1,2-Dichloroethene	0.16 mg/kg	0.016 mg/kg	10 ug/L
Methylene Chloride	37 mg/kg	3.7 mg/kg	10 ug/L
Tetrachloroethene	3.6 mg/kg	0.36 mg/kg	10 ug/L
Toluene	100000 mg/kg	10000 mg/kg	10 ug/L
1,1,1-Trichloroethane	4.3 mg/kg	0.43 mg/kg	10 ug/L
Trichloroethene	25 mg/kg	2.5 mg/kg	10 ug/L
Total Xylenes	920000 mg/kg	92000 mg/kg	10 ug/L

20600-PSP-0016-P
(approximatley 28 soil analysis specified in V/FCN)

Component	FRL	MDL
Benzo(a)pyrene	1.0 mg/kg	0.1 mg/kg
Benzo(b)fluoranthene	1.0 mg/kg	0.1 mg/kg
Dibenzo(a,h)anthracene	0.088 mg/kg	0.01 mg/kg
Indeno(1,2,3-cd)pyrene	1.0 mg/kg	0.1 mg/kg

ATTACHMENT 2

TAL(s)	Method	ASL	Matrix	Preserve	TAT	Container[a]	Minimum Mass/Volume
Rads/Metals/PCBs/SVOCs (TALs B5, B7, B8 / B9 / A2 / P)	Gamma Spec, Alpha Spec, and LSC	D/E	Solid	Cool, 4° C	[redacted]	Glass with Teflon-lined Lid	700 g (2100 g)[c]
	ICP or ICP/MS and CVAA				[redacted]		
	GC				[redacted]		
	GC				[redacted]		
VOCs (TAL A3)	GC/MS	D	Solid	Cool, 4° C	[redacted]	3 x 1-Encore Sampler plus 1 x 2-oz jar for % moisture	Each full Encore Sampler will hold approx. 5 g
VOCs (TAL A3)	GC/MS	D	Liquid (trip blank only)	H_2SO_4 pH<2 Cool, 4° C	[redacted]	3 x 40-ml glass with teflon-lined septa	120 ml (no headspace)

[a] Sample container types may be changed at the direction of the Field Sampling Lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.

[redacted]

[c] One sample location from each pit shall have triple sample mass collected for laboratory QC. The sample location is at the discretion of the Field Sampling Lead. The sample shall be noted on the Chain of Custody/Request for Analysis shall be identified "as laboratory QC sample".

Special Instructions

Field QC samples required: Yes, trip blank samples are required for the VOC samples
Analytical data validation required: Yes, VSL D
Data package requirements: ASL D (E)
Historical Data for shipping: 3510 mg/kg total uranium from boring A6WP-B-61
Additional data that may be needed for shipping is below:

Boring	FACTS_ID	Parameter	Result	VQ	Units
A7-SWRBC-S-3	200505173	Radium-228	3.53	-	pCi/g
A7-SWRBC-S-4	200505174	Radium-226	1230	-	pCi/g
A7-SWRBC-S-4	200505174	Thorium-230	118	-	pCi/g
A7-SWRBC-S-4	200505174	Thorium-232	4.49	-	pCi/g
A6WP-CWS-11	200498010	Technetium-99	7030	NV	pCi/g

VARIANCE / FIELD CHANGE NOTICE

[redacted]

V/F: 20600-PSP-0016-108

WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0016 Rev.0

Page: 1 of 2

PROJECT TITLE: Project Specific Plan For Excavation Control And Precertification of the Area 6 Waste Pits and General Area

Date: 8/25/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of physical soil samples from two patties located just east of the SP-7 footprint. Coordinate with the construction lead, Mike Busch (205-2995), or the Real-Time for the exact location/sampling of these patties.

The real-time flag numbers are 4999 and 5000. One sample should be collected from each patty. The samples are to be submitted for aroclor-1254 (TAL A5) analysis.

The Sampling and Analytical Requirements and TALs are proved on Attachment 1.

The sample IDs should be the next consecutive sample numbers from V/FCN 20600-PSP-0016-102, adding "^P" to the end of the ID.

Surveying Required: Yes - by surveying group.
Field Data Validation: Yes

Justification:
Following removal of above-FRL aroclor-1254 from a former utility trench, physical samples are being collected to ensure all above-FRL soil has been removed.

REQUESTED BY: Denise Arico — Date: 08/25/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske	8-28-06	X	PROJECT MANAGER: J.D. Chiou	8/30/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: K. Abitz	28 Aug 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul S. McLurgan	8/28/06		RTDM Manager	
	WAO		X	SAMPLING MANAGER: T. Burhage	8/29/06

VARIANCE/FCN APPROVED [X]YES [ ]NO — REVISION REQUIRED: [ ]YES [X]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Frank Miller	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1
SAMPLING AND ANALYTICAL REQUIREMENTS

TAL(s)	Method	Matrix	ASL	Preserve	TAT	Container[b]	Minimum Mass
PCBs (TAL A5)	GC	Solid	D	Cool, 4° C	10 days	Glass	100

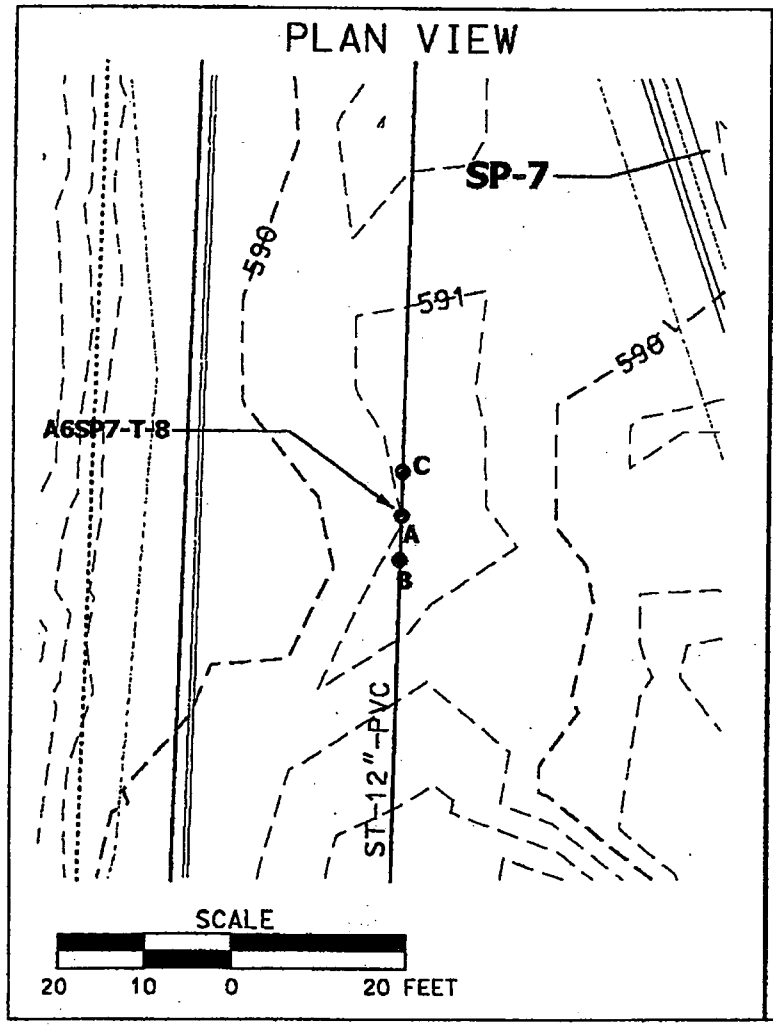
Special Instructions (samplers):
[b] Sample container types may be changed at the direction of the Field Sampling Lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.

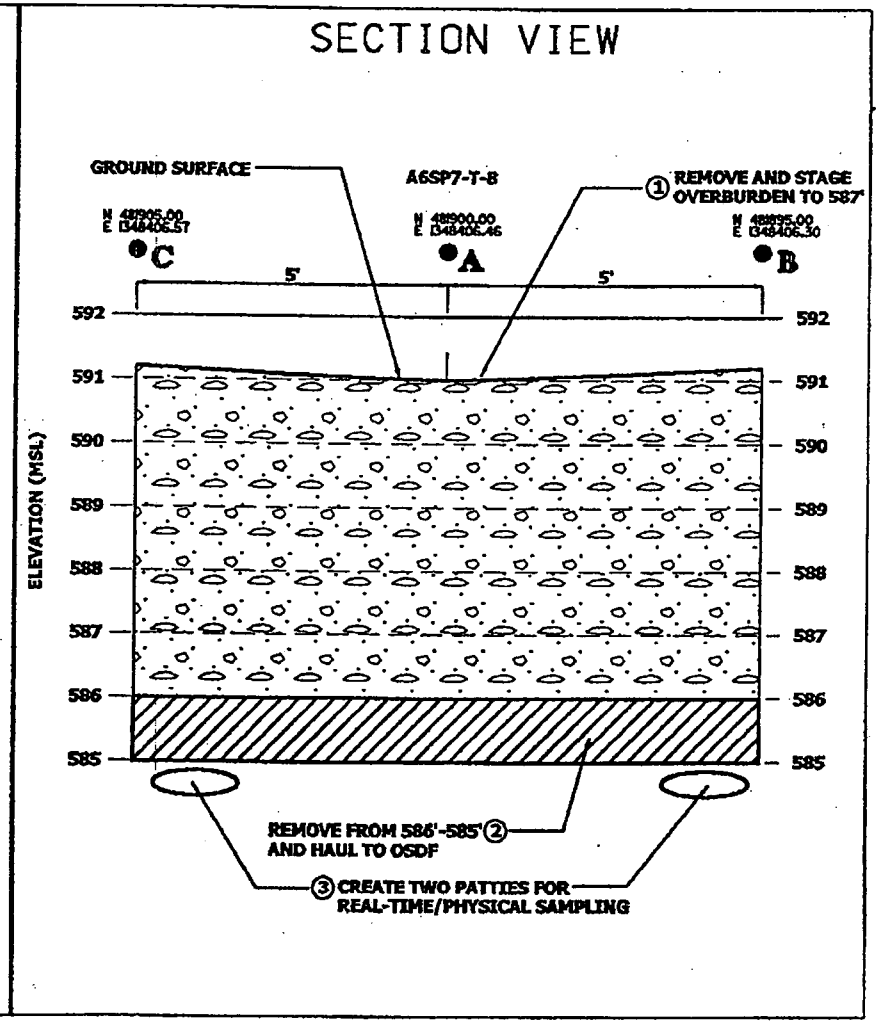
Special Instructions (SPL/Lab):
Analytical Data Validation is required.
ASL: D
Data Package Requirements – Full Data Package
Historical Data for Shipping: Real-time scanning
Total Uranium = 404 mg/kg
Radium-226 = 2.4 pCi/g
Thorium-232 = 1.6 pCi/g

TARGET ANALYTE LIST

(2 samples estimated in V/FCN)

Analyte	FRL	MDL
Aroclor-1254	130 ug/kg	13 ug/kg





LEGEND:

● SAMPLE LOCATION

DRAFT

vt:#2-fmf2#dgn#ewl_ga_001.dgn
STATE PLANAR COORDINATE SYSTEM 1983

23-AUG-2006

FIGURE 1.

VARIANCE / FIELD CHANGE NOTICE

[redacted]

V/F: 20600-PSP-0016-112

WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0016 Rev.0

Page: 1 of 2

PROJECT TITLE: Project Specific Plan For Excavation Control And Precertification of the Area 6 Waste Pits and General Area

Date: 09/19/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of physical soil samples from within the Lime Scale Pit. Coordinate the sampling activities with Mike Busch, 205-2995 or Jim Turpin, 205-2150.

Two samples need to be collected, one sample from the north sidewall and one from the south sidewall, at the mid-point of the length of the pit, within 0-4' of the top surface. The two samples will be submitted for thorium-228 and thorium-232 (TAL B10) analysis.

The Sampling and Analytical Requirements are listed on Attachment 1.

The sample identifiers from the Lime Scale Pit shall be A6SP7-LSP-PC-18^R and each additional sample ID will be sequentially numbered, where:

A6SP7 = Area 6 Soil Pile 7 Area
LSP = Lime Scale Pit
PC = Precertification
18, 19 = Consecutive Sample Numbers (Locations)
R = Radiological analysis

Field Sketch Required: No
Surveying Required: Yes. Samplers shall contact Surveying when sampling is complete.
Field QC samples required: No

Justification:

Additional samples are being collected from the Lime Scale Pit to assess Th228 and Th232 levels.

REQUESTED BY: Denise Arico Date: 09/19/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske Donna Rosser		X	PROJECT MANAGER: J.D. Chiou	9/26/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25 Sept 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul S. McNurgin	9/28/06		RTIMP Manager	
	WAO		X	SAMPLING MANAGER: T. Buhrlage	9/27/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1
SAMPLING AND ANALYTICAL REQUIREMENTS

TAL(s)	Method	Matrix	ASL	Preserve	TAT[c]	Container[b]	Minimum Mass
Rads (TAL B10)	Gamma spec or ICP-MS	Solid	D	None	24 hours[c]	Plastic container	300 g

Special Instructions (samplers):
[b]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
Analytical Data Validation is required.
ASL: D
Data Package Requirements – Full Data Package
Historical Data for Shipping: 196 mg/kg total uranium and 10.7 pCi/g thorium-230 from boring location A6SP7-LSP-PC-1

TARGET ANALYTE LIST

20600-PSP-0016-B10
(6 samples estimated in V/FCN)

Analyte	FRL	MDL
Thorium-228	1.7 pCi/g	0.3 pCi/g
Thorium-232	1.5 pCi/g	0.3 pCi/g

VARIANCE / FIELD CHANGE NOTICE

Significant Change? YES [ ] NO [X]

V/F: 20600-PSP-0016-113

WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0016 Rev.0

PROJECT TITLE: Project Specific Plan For Excavation Control And Precertification of the Area 6 Waste Pits and General Area

Date: 09/20/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of physical soil samples from within the dump pit located near the northwest loadout ramp, where above-FRL soil has been excavated. Coordinate the sampling activities with Jim Turpin, 205-2150.

From the dump pit near the loadout ramp, sample location A6SP7-DP-PC-17 has been identified to be greater than two times the FRL for total uranium. A six-inch scrape of the sidewall where this sample was located has been completed and re-sampling is necessary. The new sample shall be collected from a paddy and shall be identified as A6SP7-DP-18^R and it will be submitted for total uranium (TAL A) analysis.

Additional locations within the bottom of the dump pit (A6SP7-DP-PC-3, A6SP7-DP-PC-12, and A6SP7-DP-14) are being excavated due to above-FRL radium-226. Following excavation, Construction will make three paddies, and samples will be collected from each paddies. The samples are to be shipped offsite and prepped (dry, grind, canned) for possible radium-226 (TAL K) analysis. Additional radium-226 data from the dump pit has not been received in order to complete statistical analysis, therefore samples shall be held until it has been determined whether the samples are needed. The samples shall be identified as A6SP7-DP-19^R, A6SP7-DP-20^R, and A6SP7-DP-21^R.

The Sampling and Analytical Requirements are listed on Attachment 2.

The sample IDs are defined as follows:

- A6SP7 = Area 6 Soil Pile 7 Area
- DP = Deep Pit
- PC = Precertification
- 18, 19, etc = Consecutive Sample Numbers (Locations)
- R = Radiological analysis

Field Sketch Required: Yes

Surveying Required: Yes. Samplers shall contact Surveying when sampling is complete.

Field QC samples required: No.

Justification:

Samples A6SP7-DP-PC-17 has been identified to be greater than two times FRL therefore is being excavated. Following excavation, sampling is necessary. Additional above-FRL radium-226 locations are being excavated. Samples are also being collected and held for possible analysis pending data receipt and statistical analysis for other radium-226 sample locations.

REQUESTED BY: Denise Arico Date: 09/20/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske	9/21/06	X	PROJECT MANAGER: J.D. Chiou	9/26/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25Sep06
X	ANALYTICAL CUSTOMER SUPPORT: Paul S. McMorgan	9/28/06		RTIMP Manager	
	WAO		X	SAMPLING MANAGER: T. Buhrlage	9/27/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1
SAMPLING AND ANALYTICAL REQUIREMENTS

TAL(s)	Method	Matrix	ASL	Preserve	TAT	Container[b]	Minimum Mass
Total Uranium (TAL A)	Gamma spec or ICP-MS	Solid	D	None	24 hours	Plastic container	300 g
Radium-226 (TAL K)	Gamma spec	Solid	D	None	10 days[c]	Plastic container	300 g

Special Instructions (samplers):
[b]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
[c]Samples are to be prepped for analysis but held until FCP determines if analysis is needed or not. If analysis is necessary, samples will go through a 7-day in-growth and will be denoted by a "7DAY" suffix in the EDD.
Analytical Data Validation is required.
ASL: D
Data Package Requirements – Full Data Package
Historical Data for Shipping: 671 mg/kg total uranium from boring location A6SP7-DP-PC-9

TARGET ANALYTE LIST

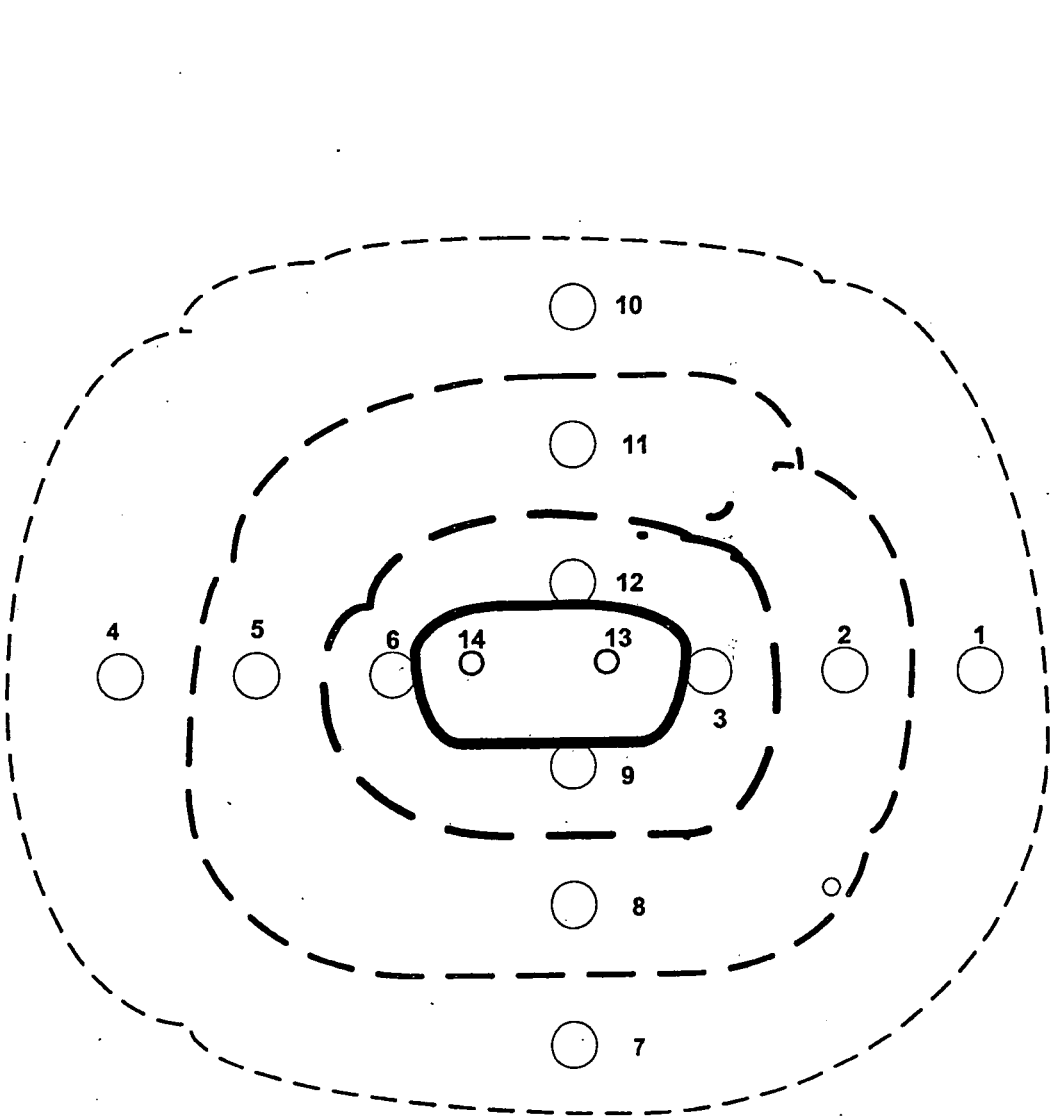
20600-PSP-0016-A
(1 samples estimated in V/FCN)

Analyte	FRL	MDL
Total Uranium	82 mg/kg	8.2 mg/kg

20600-PSP-0016-K
(3 samples estimated in V/FCN)

Analyte	FRL	MDL
Radium-226	1.7 pCi/g	0.3 pCi/g

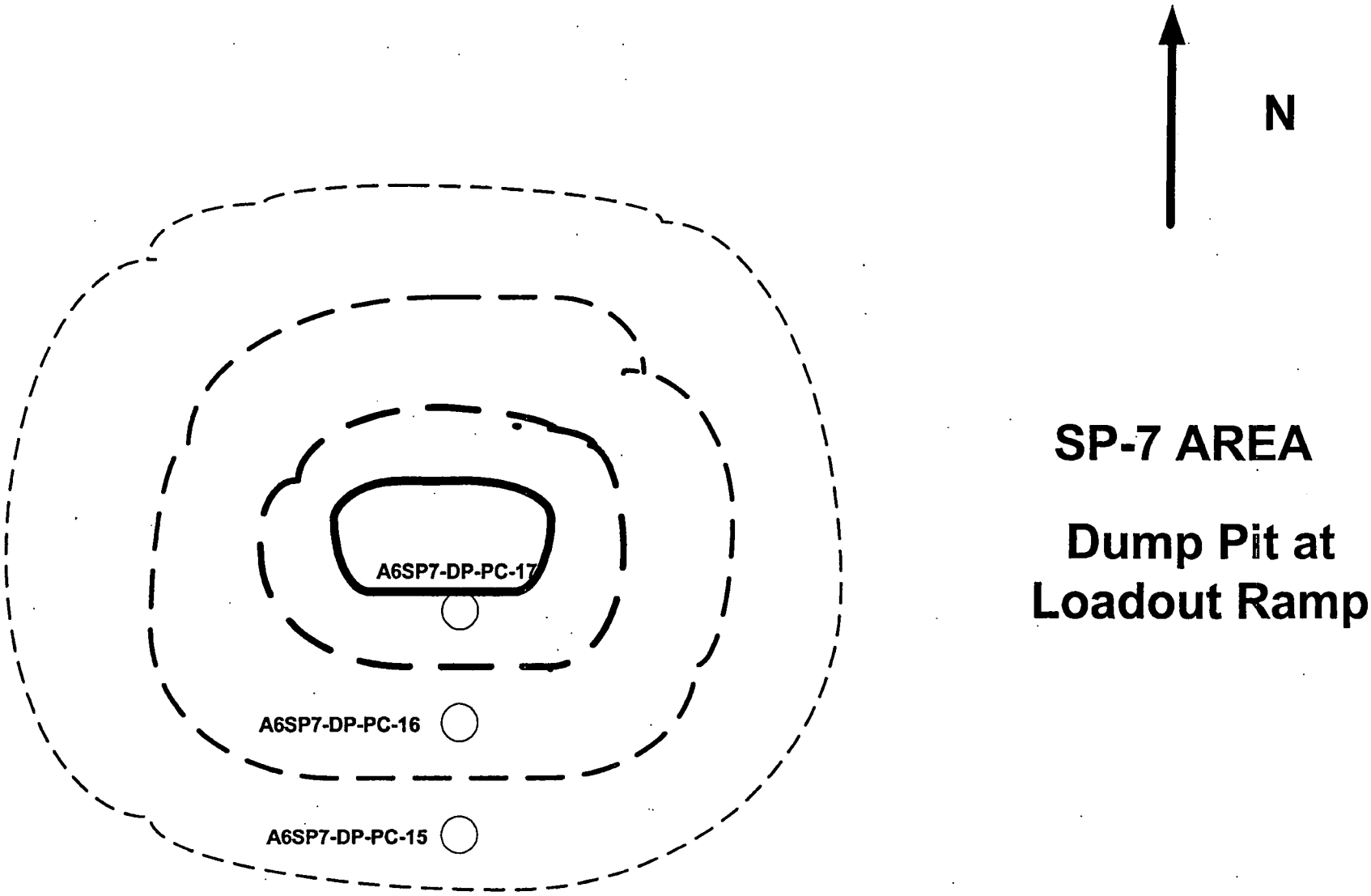
Loadout Ramp Pit
A6SP7-DP-LSP-#



N

SP-7 AREA

Excavation Control Sampling
20600-PSP-0016 V/FCN ~~111~~ 113



ATTACHMENT A.2

UTILITY TRENCH SAMPLE RESULTS

APPENDIX A
STATISTICAL ABBREVIATIONS AND SYMBOLS

The procedure used to determine if the data are to be assumed to be either normally distributed or lognormally distributed is outlined in Section G.2.3 of Appendix G to the SEP. The second paragraph under "Step 3: Perform the Shapiro-Wilk Test to evaluate if the data are normally or lognormally distributed" states that "If the Shapiro-Wilk Test indicates both normal and lognormal distributions fit the data, the distribution with the highest p-value will be used in the Student's t-Test (Section G.2.2.2) to make the certification decision." Therefore, the distribution testing procedure is not a matter of transforming the data and then testing for lognormality only when the normality assumption fails as the comment seems to imply. The method is to test both normality and lognormality and select the distribution that "best" fits the data as defined by the test yielding the higher p-value above a minimum acceptable value. The minimum acceptable p-value for acceptance of a distribution was set at 0.05.

Abbreviations:

W-Statistic Probability - Shapiro-Wilk probability of the "better" fit - either normal or lognormal (note: a value less than 0.05 indicates that neither normality nor lognormality could be accepted, but the highest p-value is still shown.)

t-Test (N) - indicates that the normal distribution is best fit to data with a p-value greater than or equal to 0.05.

t-Test (LN) - indicates that the lognormal distribution is best fit to data with a p-value greater than or equal to 0.05.

Sign Test - the Sign test was used because one of the following situations occurred:

1. there were greater than 50 percent non-detects,
2. between 15 and 50 percent non-detects and data not symmetrically distributed,
3. less than 15 percent non-detects, but fails Shapiro-Wilk test for both normality and lognormality and data not symmetrically distributed.

Wilcoxon SR - the Wilcoxon Signed Rank procedure was used because of one of the following situations:

1. between 15 and 50 percent non-detects and data symmetrically distributed,
2. less than 15 percent non-detects, but fails Shapiro-Wilk test for both normality and lognormality and data symmetrically distributed.

Note: Data was considered to be "symmetrically distributed" if the Standardized Skewness had an Absolute Value of less than or equal to 2.00 (i.e., between -2.00 and 2.00).

Number of NDs - number of non-detects.

@ - maximum result was below the FRL indicating that no statistical result needed to be reported.

UTILITY TRENCH SAMPLE STATS

SAMPLE ID	Aroclor-1254	Aroclor-1260
A6SP7-T-1	4 U	4 U
A6SP7-T-10	3.7 U	3.7 U
A6SP7-T-11	3.9 U	3.9 U
A6SP7-T-2	3.6 U	3.6 U
A6SP7-T-3	3.9 U	3.9 U
A6SP7-T-4	3.9 U	3.9 U
A6SP7-T-5	54.7 -	25.5 -
A6SP7-T-6	3.6 U	3.6 U
A6SP7-T-7	3.5 U	3.5 U
A6SP7-T-8 *	462 J	164 J
A6SP7-T-9	7.5 J	4 NJ
A7GA-T-98	4 U	4 U
A6SP7-T-12 **	3.6 J	- -
A6SP7-T-13 **	33.3 J	- -
Limit	130	130
Units	µg/kg	µg/kg
Conf. Level	90%	90%
Max. Result	54.7	164
Max. > Limit	No	Yes
W-statistic Prob. #	- -	< 0.01% (LN)
Test Procedure	- -	Proportions (Sign)
Sample Size	12	12
Nondetects	9	9
% Nondetects	75%	75%
Est. Mean*	- -	2.0
UCL	- -	- -
Prob. > Limit	- -	0.00
Pass / Fail	- -	pass

a posteriori Sample	- -	5
Size calculation	- -	Pass

* Excavated hot spot.

** Newly collected data after excavation in sub-CU A6SP7-T-8.

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6GA-T-98	A6GA-T-98^D	27-Feb-06	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000227	-	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^D	27-Feb-06	Octachlorodibenzo-p-dioxin	0.0000426	-	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^L	27-Feb-06	1,1-Dichloroethene	1	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^L	27-Feb-06	1,2-Dichloroethene (Total)	1	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^L	27-Feb-06	Bromodichloromethane	1	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^L	27-Feb-06	Tetrachloroethene	1	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^L	27-Feb-06	Trichloroethene	1	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Antimony	0.707	U	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Arsenic	4.44	-	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Benzo(a)pyrene	38	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Benzo(b)fluoranthene	38	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Beryllium	0.416	-	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Cadmium	0.276	U	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Cesium-137	0.0517	U	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Dibenzo(a,h)anthracene	38	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Dieldrin	1.5	U	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Fluoride	3.26	J	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Indeno(1,2,3-cd)pyrene	41.4	J	µg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Radium-226	0.98	-	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Radium-228	0.565	-	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Silver	0.662	U	mg/kg	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Technetium-99	0.911	U	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Thorium-228	0.521	-	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Thorium-230	1.68	J	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Thorium-232	0.565	-	pCi/g	481305	1347407
A6GA-T-98	A6GA-T-98^RMPS	27-Feb-06	Uranium, Total	9.15	-	mg/kg	481305	1347407
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	1,1,1-Trichloroethane	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	1,1-Dichloroethene	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	1,2-Dichloroethene (Total)	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	Bromodichloromethane	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	Methylene chloride	7.7	J	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	Tetrachloroethene	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	Toluene	2	J	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	Trichloroethene	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^L	31-Jul-06	Xylenes, Total	1.1	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Arsenic	9.4	-	mg/kg	481966	1348654

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Barium	171	J	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Benzo(a)pyrene	39.7	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Benzo(b)fluoranthene	39.7	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Beryllium	1.1	-	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Cadmium	0.36	J	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Cesium-137	0.0925	UNV	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Chromium	26.9	J	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Dibenzo(a,h)anthracene	39.7	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Dieldrin	1.6	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Indeno(1,2,3-cd)pyrene	39.7	U	µg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Lead	15.6	J	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Lead-210	1.08	U	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Mercury	0.028	J	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Neptunium-237	0.0136	U	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Radium-226	1.39542	-	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Radium-228	1.32	-	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Selenium	0.586	U	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Silver	0.091	J	mg/kg	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Technetium-99	2.03	U	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Thorium-228	1.31	-	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Thorium-230	1.71	-	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Thorium-232	1.32	-	pCi/g	481966	1348654
A6SP7-T-1	A6SP7-T-1^RMPS	31-Jul-06	Uranium, Total	19.2	-	mg/kg	481966	1348654
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	1,1,1-Trichloroethane	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	1,1-Dichloroethene	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	1,2-Dichloroethene (Total)	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	Bromodichloromethane	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	Methylene chloride	6.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	Tetrachloroethene	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	Toluene	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	Trichloroethene	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^L	07-Aug-06	Xylenes, Total	1.3	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Arsenic	6	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Barium	83.2	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Benzo(a)pyrene	37.1	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Benzo(b)fluoranthene	37.1	U	µg/kg	482129	1348673

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Beryllium	0.7	-	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Cadmium	0.24	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Cesium-137	0.0515	UNV	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Chromium	20.1	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Dibenzo(a,h)anthracene	37.1	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Dieldrin	1.5	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Indeno(1,2,3-cd)pyrene	37.1	U	µg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Lead	9.9	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Lead-210	0.728	J	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Mercury	0.014	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Neptunium-237	0.0378	U	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Radium-226	0.940524	-	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Radium-228	0.855	-	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Selenium	0.55	U	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Silver	0.065	J	mg/kg	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Technetium-99	1.6	U	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Thorium-228	0.875	-	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Thorium-230	2.84	-	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Thorium-232	0.855	-	pCi/g	482129	1348673
A6SP7-T-10	A6SP7-T-10^RMPS	07-Aug-06	Uranium, Total	3.58	-	mg/kg	482129	1348673
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	1,1,1-Trichloroethane	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	1,1-Dichloroethene	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	1,2-Dichloroethene (Total)	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	Bromodichloromethane	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	Methylene chloride	5.8	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	Tetrachloroethene	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	Toluene	1.3	J	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	Trichloroethene	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^L	16-Aug-06	Xylenes, Total	1.2	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Arsenic	8.4	-	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Barium	80.7	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Benzo(a)pyrene	38.8	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Benzo(b)fluoranthene	38.8	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Beryllium	0.7	-	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Cadmium	0.2	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Cesium-137	0.0611	UNV	pCi/g	482210	1348675

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Chromium	19.4	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Dibenzo(a,h)anthracene	38.8	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Dieldrin	1.6	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Indeno(1,2,3-cd)pyrene	38.8	U	µg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Lead	9.4	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Lead-210	0.933	J	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Mercury	0.016	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Neptunium-237	0.0228	U	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Radium-226	1.017393	-	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Radium-228	0.847	-	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Selenium	0.61	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Silver	0.054	J	mg/kg	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Technetium-99	1.89	U	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Thorium-228	0.843	-	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Thorium-230	0.935	-	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Thorium-232	0.847	-	pCi/g	482210	1348675
A6SP7-T-11	A6SP7-T-11^RMPS	16-Aug-06	Uranium, Total	8.52	-	mg/kg	482210	1348675
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	1,1,1-Trichloroethane	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	1,1-Dichloroethene	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	1,2-Dichloroethene (Total)	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	Bromodichloromethane	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	Methylene chloride	4.9	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	Tetrachloroethene	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	Toluene	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	Trichloroethene	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^L	31-Jul-06	Xylenes, Total	1	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Arsenic	5.1	-	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Barium	49.8	J	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Benzo(a)pyrene	36.2	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Benzo(b)fluoranthene	36.2	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Beryllium	0.38	-	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Cadmium	0.19	J	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Cesium-137	0.084	UNV	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Chromium	10.1	J	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Dibenzo(a,h)anthracene	36.2	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Dieldrin	1.5	U	µg/kg	481877	1348649

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Indeno(1,2,3-cd)pyrene	36.2	U	µg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Lead	7.5	J	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Lead-210	0.984	U	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Mercury	0.013	J	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Neptunium-237	0.0445	U	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Radium-226	0.781521	-	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Radium-228	0.617	-	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Selenium	0.52	U	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Silver	0.0416	J	mg/kg	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Technetium-99	2.12	U	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Thorium-228	0.599	-	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Thorium-230	1.58	-	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Thorium-232	0.617	-	pCi/g	481877	1348649
A6SP7-T-2	A6SP7-T-2^RMPS	31-Jul-06	Uranium, Total	6.18	-	mg/kg	481877	1348649
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	1,1,1-Trichloroethane	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	1,1-Dichloroethene	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	1,2-Dichloroethene (Total)	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	Bromodichloromethane	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	Methylene chloride	5.8	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	Tetrachloroethene	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	Toluene	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	Trichloroethene	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^L	31-Jul-06	Xylenes, Total	1.2	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Arsenic	4.5	-	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Barium	103	J	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Benzo(a)pyrene	38.6	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Benzo(b)fluoranthene	38.6	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Beryllium	0.71	-	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Cadmium	0.22	J	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Cesium-137	0.0776	UNV	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Chromium	16.4	J	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Dibenzo(a,h)anthracene	38.6	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Dieldrin	1.5	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Indeno(1,2,3-cd)pyrene	38.6	U	µg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Lead	17.1	J	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Lead-210	1.62	J	pCi/g	482058	1348632

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Mercury	0.02	J	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Neptunium-237	0.0347	U	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Radium-226	1.17429	-	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Radium-228	1.11	-	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Selenium	0.561	U	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Silver	0.057	J	mg/kg	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Technetium-99	1.91	U	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Thorium-228	1.1	-	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Thorium-230	1.75	-	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Thorium-232	1.11	-	pCi/g	482058	1348632
A6SP7-T-3	A6SP7-T-3^RMPS	31-Jul-06	Uranium, Total	6.17	-	mg/kg	482058	1348632
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	1,1,1-Trichloroethane	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	1,1-Dichloroethene	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	1,2-Dichloroethene (Total)	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	Bromodichloromethane	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	Methylene chloride	4.5	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	Tetrachloroethene	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	Toluene	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	Trichloroethene	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^L	31-Jul-06	Xylenes, Total	0.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Arsenic	5	-	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Barium	63.7	J	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Benzo(a)pyrene	38.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Benzo(b)fluoranthene	38.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Beryllium	0.55	-	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Cadmium	0.25	J	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Cesium-137	0.0864	UNV	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Chromium	14.2	J	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Dibenzo(a,h)anthracene	38.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Dieldrin	1.6	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Indeno(1,2,3-cd)pyrene	38.9	U	µg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Lead	8.7	J	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Lead-210	0.955	U	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Mercury	0.017	J	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Neptunium-237	0.0325	U	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Radium-226	1.248	-	pCi/g	482167	1348637

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Radium-228	0.944	-	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Selenium	0.581	U	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Silver	0.0465	U	mg/kg	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Technetium-99	2.12	U	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Thorium-228	0.952	-	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Thorium-230	1.44	-	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Thorium-232	0.944	-	pCi/g	482167	1348637
A6SP7-T-4	A6SP7-T-4^RMPS	31-Jul-06	Uranium, Total	4.02	J	mg/kg	482167	1348637
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	1,1,1-Trichloroethane	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	1,1-Dichloroethene	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	1,2-Dichloroethene (Total)	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	Bromodichloromethane	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	Methylene chloride	5.5	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	Tetrachloroethene	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	Toluene	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	Trichloroethene	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^L	02-Aug-06	Xylenes, Total	1.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Arsenic	5.7	-	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Barium	103	J	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Benzo(a)pyrene	38.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Benzo(b)fluoranthene	38.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Beryllium	0.76	-	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Cadmium	0.25	J	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Cesium-137	0.11	UNV	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Chromium	15.7	J	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Dibenzo(a,h)anthracene	38.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Dieldrin	1.5	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Indeno(1,2,3-cd)pyrene	38.1	U	µg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Lead	14.1	J	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Lead-210	1.17	U	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Mercury	0.023	J	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Neptunium-237	0.0218	U	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Radium-226	1.04793	J	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Radium-228	0.977	-	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Selenium	0.72	J	mg/kg	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Silver	0.058	J	mg/kg	481921	1348821

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Technetium-99	3.36	-	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Thorium-228	0.952	-	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Thorium-230	1.42	J	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Thorium-232	0.977	-	pCi/g	481921	1348821
A6SP7-T-5	A6SP7-T-5^RMPS	02-Aug-06	Uranium, Total	25.8	-	mg/kg	481921	1348821
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	1,1,1-Trichloroethane	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	1,1-Dichloroethene	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	1,2-Dichloroethene (Total)	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	Bromodichloromethane	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	Methylene chloride	4.7	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	Tetrachloroethene	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	Toluene	1	J	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	Trichloroethene	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^L	02-Aug-06	Xylenes, Total	0.9	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Arsenic	4.9	-	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Barium	59	J	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Benzo(a)pyrene	36.3	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Benzo(b)fluoranthene	36.3	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Beryllium	0.46	-	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Cadmium	0.2	J	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Cesium-137	0.0362	UNV	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Chromium	12.6	J	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Dibenzo(a,h)anthracene	36.3	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Dieldrin	1.5	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Indeno(1,2,3-cd)pyrene	36.3	U	µg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Lead	7.8	J	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Lead-210	3.75	U	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Mercury	0.014	J	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Neptunium-237	0.0239	U	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Radium-226	0.801528	J	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Radium-228	0.663	-	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Selenium	0.68	J	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Silver	0.0435	U	mg/kg	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Technetium-99	1.73	U	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Thorium-228	0.666	-	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Thorium-230	1.03	U	pCi/g	481868	1348816

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Thorium-232	0.663	-	pCi/g	481868	1348816
A6SP7-T-6	A6SP7-T-6^RMPS	02-Aug-06	Uranium, Total	5.92	-	mg/kg	481868	1348816
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	1,1,1-Trichloroethane	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	1,1-Dichloroethene	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	1,2-Dichloroethene (Total)	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	Bromodichloromethane	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	Methylene chloride	4.6	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	Tetrachloroethene	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	Toluene	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	Trichloroethene	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^L	07-Aug-06	Xylenes, Total	0.9	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Arsenic	5.6	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Barium	90.8	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Benzo(a)pyrene	35.3	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Benzo(b)fluoranthene	35.3	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Beryllium	0.7	-	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Cadmium	0.25	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Cesium-137	0.0494	UNV	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Chromium	21.1	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Dibenzo(a,h)anthracene	35.3	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Dieldrin	1.4	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Indeno(1,2,3-cd)pyrene	35.3	U	µg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Lead	9.4	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Lead-210	0.933	J	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Mercury	0.024	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Neptunium-237	0.0407	U	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Radium-226	1.17429	-	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Radium-228	1.06	-	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Selenium	0.53	U	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Silver	0.076	J	mg/kg	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Technetium-99	1.58	U	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Thorium-228	1.06	-	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Thorium-230	1.92	-	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Thorium-232	1.06	-	pCi/g	482180	1348716
A6SP7-T-7	A6SP7-T-7^RMPS	07-Aug-06	Uranium, Total	5.47	-	mg/kg	482180	1348716
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	1,1,1-Trichloroethane	0.9	U	µg/kg	481900	1348467

UTILITY TRENCH SAMPLE RESULTS'

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	1,1-Dichloroethene	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	1,2-Dichloroethene (Total)	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	Bromodichloromethane	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	Methylene chloride	4.7	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	Tetrachloroethene	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	Toluene	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	Trichloroethene	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^L	07-Aug-06	Xylenes, Total	0.9	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Arsenic	5.6	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Barium	40.4	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Benzo(a)pyrene	35.2	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Benzo(b)fluoranthene	35.2	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Beryllium	0.33	-	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Cadmium	0.18	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Cesium-137	0.0562	UNV	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Chromium	9.4	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Dibenzo(a,h)anthracene	35.2	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Dieldrin	1.4	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Indeno(1,2,3-cd)pyrene	35.2	U	µg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Lead	10.8	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Lead-210	1.08	J	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Mercury	0.011	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Neptunium-237	0.0587	U	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Radium-226	1.27959	-	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Radium-228	0.633	-	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Selenium	0.522	U	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Silver	0.048	J	mg/kg	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Technetium-99	2.47	-	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Thorium-228	0.623	-	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Thorium-230	2.97	-	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Thorium-232	0.633	-	pCi/g	481900	1348467
A6SP7-T-8	A6SP7-T-8^RMPS	07-Aug-06	Uranium, Total	38.3	-	mg/kg	481900	1348467
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	1,1,1-Trichloroethane	1.2	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	1,1-Dichloroethene	1.2	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	1,2-Dichloroethene (Total)	1.2	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	Bromodichloromethane	1.2	U	µg/kg	482009	1348839

UTILITY TRENCH SAMPLE RESULTS

Boring	SampleID	Sample Date	Parameter	Result	Qual	Units	Northing	Easting
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	Methylene chloride	6.1	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	Tetrachloroethene	1.2	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	Toluene	1.8	J	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	Trichloroethene	1.2	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^L	07-Aug-06	Xylenes, Total	2.7	J	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Arsenic	10.4	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Barium	128	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Benzo(a)pyrene	34.6	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Benzo(b)fluoranthene	34.6	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Beryllium	0.98	-	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Cadmium	0.28	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Cesium-137	0.0776	UNV	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Chromium	27.9	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Dibenzo(a,h)anthracene	34.6	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Dieldrin	1.4	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Indeno(1,2,3-cd)pyrene	34.6	U	µg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Lead	16.8	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Lead-210	1.73	J	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Mercury	0.026	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Neptunium-237	0.0429	U	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Radium-226	1.37436	-	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Radium-228	1.33	-	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Selenium	0.516	U	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Silver	0.13	J	mg/kg	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Technetium-99	2.05	-	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Thorium-228	1.31	-	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Thorium-230	1.52	-	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Thorium-232	1.33	-	pCi/g	482009	1348839
A6SP7-T-9	A6SP7-T-9^RMPS	07-Aug-06	Uranium, Total	9.41	-	mg/kg	482009	1348839

ATTACHMENT A.3

PRECERTIFICATION SAMPLE RESULTS FOR THE LIME SCALE PIT AND DUMP PIT AT SP-7

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	1,1,1-Trichloroethane	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	1,1-Dichloroethene	1.63	J	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	1,2-Dichloroethene (Total)	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	Bromodichloromethane	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	Methylene chloride	4.62	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	Tetrachloroethene	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	Toluene	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	Trichloroethene	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^L	Xylenes, Total	0.924	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Aroclor-1254	17.8	-	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Aroclor-1260	5	J	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Arsenic	5.1	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Barium	67.3	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Benzo(a)pyrene	97.2	J	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Benzo(b)fluoranthene	37.6	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Beryllium	0.47	-	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Cadmium	0.2	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Cesium-137	0.042	U	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Chromium	12	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Dibenzo(a,h)anthracene	37.6	U	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Indeno(1,2,3-cd)pyrene	81	J	ug/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Lead	10.5	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Lead-210	4.66	U	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Mercury	0.032	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Neptunium-237	0.143	U	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Radium-226	1.024764	-	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Radium-228	0.946	-	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Selenium	0.549	UJ	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Silver	0.056	J	mg/kg
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Technetium-99	2	U	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Thorium-228	0.941	-	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Thorium-230	1.87	-	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Thorium-232	0.946	-	pCi/g
A6SP7-DP-PC-1	05-Sep-06	A6SP7-DP-PC-1^RMPS	Uranium, Total	13.2	-	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	1,1,1-Trichloroethane	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	1,1-Dichloroethene	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	1,2-Dichloroethene (Total)	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	Bromodichloromethane	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	Methylene chloride	4.6	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	Tetrachloroethene	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	Toluene	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	Trichloroethene	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^L	Xylenes, Total	0.92	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Aroclor-1254	3.77	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Aroclor-1260	3.77	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Arsenic	4.4	-	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Barium	34.5	J	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Benzo(a)pyrene	79.8	J	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Benzo(b)fluoranthene	176	-	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Beryllium	0.24	-	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Cadmium	0.2	J	mg/kg

• Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Cesium-137	0.055	U	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Chromium	10.4	J	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Dibenzo(a,h)anthracene	37.7	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Dieldrin	1.51	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Indeno(1,2,3-cd)pyrene	37.7	U	ug/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Lead	9.8	J	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Lead-210	1.01	J	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Mercury	0.037	J	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Neptunium-237	0.118	U	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Radium-226	0.926835	-	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Radium-228	0.62	-	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Selenium	0.558	U	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Silver	0.0446	U	mg/kg
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Technetium-99	1.94	U	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Thorium-228	0.621	-	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Thorium-230	0.974	-	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Thorium-232	0.62	-	pCi/g
A6SP7-DP-PC-10	05-Sep-06	A6SP7-DP-PC-10^RMPS	Uranium, Total	2.7	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	1,1,1-Trichloroethane	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	1,1-Dichloroethene	1.16	J	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	1,2-Dichloroethene (Total)	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	Bromodichloromethane	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	Methylene chloride	5.2	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	Tetrachloroethene	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	Toluene	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	Trichloroethene	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^L	Xylenes, Total	1.04	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Aroclor-1254	22.4	-	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Aroclor-1260	6.2	J	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Arsenic	7	-	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Barium	70.1	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Benzo(a)pyrene	39.4	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Benzo(b)fluoranthene	39.4	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Beryllium	0.48	-	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Cadmium	0.22	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Cesium-137	0.171	-	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Chromium	16.2	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Dibenzo(a,h)anthracene	39.4	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Dieldrin	1.57	U	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Indeno(1,2,3-cd)pyrene	85.6	J	ug/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Lead	13.9	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Lead-210	1.57	J	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Mercury	0.078	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Neptunium-237	0.143	U	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Radium-226	1.65867	-	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Radium-228	1.66	-	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Selenium	0.572	U	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Silver	0.074	J	mg/kg
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Technetium-99	2.1	J	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Thorium-228	1.65	-	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Thorium-230	3.82	-	pCi/g

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Thorium-232	1.66	-	pCi/g
A6SP7-DP-PC-11	05-Sep-06	A6SP7-DP-PC-11^RMPS	Uranium, Total	69.1	-	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	1,1,1-Trichloroethane	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	1,1-Dichloroethene	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	1,2-Dichloroethene (Total)	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	Bromodichloromethane	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	Methylene chloride	5.01	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	Tetrachloroethene	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	Toluene	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	Trichloroethene	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^L	Xylenes, Total	1	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Aroclor-1254	44.3	-	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Aroclor-1260	10.7	J	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Arsenic	6.5	-	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Barium	66.3	J	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Benzo(a)pyrene	37.6	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Benzo(b)fluoranthene	37.6	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Beryllium	0.37	-	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Cadmium	0.25	J	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Cesium-137	0.121	U	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Chromium	16.7	J	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Dibenzo(a,h)anthracene	37.6	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Dieldrin	1.5	U	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Indeno(1,2,3-cd)pyrene	94.9	J	ug/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Lead	11.8	J	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Lead-210	2.88	J	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Mercury	0.047	J	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Neptunium-237	0.0823	U	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Radium-226	2.70114	-	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Radium-228	1.56	-	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Selenium	0.538	U	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Silver	0.081	J	mg/kg
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Technetium-99	1.98	U	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Thorium-228	1.61	-	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Thorium-230	3.53	-	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Thorium-232	1.56	-	pCi/g
A6SP7-DP-PC-12*	05-Sep-06	A6SP7-DP-PC-12^RMPS	Uranium, Total	78.5	-	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	1,1,1-Trichloroethane	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	1,1-Dichloroethene	4.22	J	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	1,2-Dichloroethene (Total)	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	Bromodichloromethane	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	Methylene chloride	5.46	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	Tetrachloroethene	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	Toluene	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	Trichloroethene	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^L	Xylenes, Total	1.09	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Aroclor-1254	4.5	J	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Aroclor-1260	4.19	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Arsenic	5.3	-	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Barium	61.6	J	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Benzo(a)pyrene	41.9	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Benzo(b)fluoranthene	41.9	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Beryllium	0.48	-	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Cadmium	0.18	J	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Cesium-137	0.038	U	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Chromium	14.6	J	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Dibenzo(a,h)anthracene	41.9	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Dieldrin	1.68	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Indeno(1,2,3-cd)pyrene	41.9	U	ug/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Lead	8.9	J	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Lead-210	4.39	U	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Mercury	0.042	J	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Neptunium-237	0.112	U	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Radium-226	0.957372	-	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Radium-228	0.803	-	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Selenium	0.598	U	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Silver	0.051	J	mg/kg
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Technetium-99	1.99	U	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Thorium-228	0.786	-	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Thorium-230	1.76	-	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Thorium-232	0.803	-	pCi/g
A6SP7-DP-PC-13*	05-Sep-06	A6SP7-DP-PC-13^RMPS	Uranium, Total	11.6	-	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	1,1,1-Trichloroethane	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	1,1-Dichloroethene	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	1,2-Dichloroethene (Total)	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	Bromodichloromethane	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	Methylene chloride	4.95	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	Tetrachloroethene	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	Toluene	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	Trichloroethene	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^L	Xylenes, Total	0.989	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Aroclor-1254	86.1	-	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Aroclor-1260	15.4	J	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Arsenic	7.1	-	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Barium	49.9	J	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Benzo(a)pyrene	41.7	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Benzo(b)fluoranthene	41.7	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Beryllium	0.34	-	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Cadmium	0.3	J	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Cesium-137	0.044	U	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Chromium	15.3	J	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Dibenzo(a,h)anthracene	41.7	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Dieldrin	1.67	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Indeno(1,2,3-cd)pyrene	41.7	U	ug/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Lead	8.8	J	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Lead-210	7.02	U	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Mercury	0.047	J	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Neptunium-237	0.109	U	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Radium-226	2.1957	-	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Radium-228	1.09	-	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Selenium	0.617	U	mg/kg
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Silver	0.076	J	mg/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Technetium-99	2.16	U	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Thorium-228	1.12	-	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Thorium-230	6.21	-	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Thorium-232	1.09	-	pCi/g
A6SP7-DP-PC-14*	05-Sep-06	A6SP7-DP-PC-14^RMPS	Uranium, Total	53.5	-	mg/kg
A6SP7-DP-PC-15	16-Sep-06	A6SP7-DP-PC-15^R	Radium-226	1.29012	-	pCi/g
A6SP7-DP-PC-15	16-Sep-06	A6SP7-DP-PC-15^R	Radium-228	1.22	-	pCi/g
A6SP7-DP-PC-15	16-Sep-06	A6SP7-DP-PC-15^R	Thorium-228	1.33	-	pCi/g
A6SP7-DP-PC-15	16-Sep-06	A6SP7-DP-PC-15^R	Thorium-232	1.22	-	pCi/g
A6SP7-DP-PC-15	16-Sep-06	A6SP7-DP-PC-15^R	Uranium, Total	7.66	-	mg/kg
A6SP7-DP-PC-16	16-Sep-06	A6SP7-DP-PC-16^R	Radium-226	1.50072	-	pCi/g
A6SP7-DP-PC-16	16-Sep-06	A6SP7-DP-PC-16^R	Radium-228	1.14	-	pCi/g
A6SP7-DP-PC-16	16-Sep-06	A6SP7-DP-PC-16^R	Thorium-228	1.12	-	pCi/g
A6SP7-DP-PC-16	16-Sep-06	A6SP7-DP-PC-16^R	Thorium-232	1.14	-	pCi/g
A6SP7-DP-PC-16	16-Sep-06	A6SP7-DP-PC-16^R	Uranium, Total	18.5	-	mg/kg
A6SP7-DP-PC-17*	16-Sep-06	A6SP7-DP-PC-17^R	Radium-226	1.6692	-	pCi/g
A6SP7-DP-PC-17*	16-Sep-06	A6SP7-DP-PC-17^R	Radium-228	1.34	-	pCi/g
A6SP7-DP-PC-17*	16-Sep-06	A6SP7-DP-PC-17^R	Thorium-228	1.27	-	pCi/g
A6SP7-DP-PC-17*	16-Sep-06	A6SP7-DP-PC-17^R	Thorium-232	1.34	-	pCi/g
A6SP7-DP-PC-17*	16-Sep-06	A6SP7-DP-PC-17^R	Uranium, Total	168	-	mg/kg
A6SP7-DP-PC-18	21-Sep-06	A6SP7-DP-PC-18^R	Uranium, Total	161	J	mg/kg
A6SP7-DP-PC-19	21-Sep-06	A6SP7-DP-PC-19^R	Radium-226	1.04793	-	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	1,1,1-Trichloroethane	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	1,1-Dichloroethene	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	1,2-Dichloroethene (Total)	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	Bromodichloromethane	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	Methylene chloride	6.35	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	Tetrachloroethene	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	Toluene	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	Trichloroethene	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^L	Xylenes, Total	1.27	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Aroclor-1254	17.7	-	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Aroclor-1260	4.9	J	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Arsenic	8.4	-	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Barium	98.5	J	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Benzo(a)pyrene	38.6	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Benzo(b)fluoranthene	38.6	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Beryllium	0.7	-	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Cadmium	0.22	J	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Cesium-137	0.043	U	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Chromium	24.9	J	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Dibenzo(a,h)anthracene	38.6	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Dieldrin	1.54	U	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Indeno(1,2,3-cd)pyrene	60.8	J	ug/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Lead	16.7	J	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Lead-210	7.22	U	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Mercury	0.033	J	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Neptunium-237	0.186	U	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Radium-226	1.34277	-	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Radium-228	1.29	-	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Selenium	0.61	J	mg/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Silver	0.09	J	mg/kg
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Technetium-99	2.09	U	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Thorium-228	1.3	-	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Thorium-230	3.19	-	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Thorium-232	1.29	-	pCi/g
A6SP7-DP-PC-2	05-Sep-06	A6SP7-DP-PC-2^RMPS	Uranium, Total	19.4	-	mg/kg
A6SP7-DP-PC-20	21-Sep-06	A6SP7-DP-PC-20^R	Radium-226	0.946842	-	pCi/g
A6SP7-DP-PC-21	21-Sep-06	A6SP7-DP-PC-21^R	Radium-226	1.04793	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	1,1,1-Trichloroethane	1.04	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	1,1-Dichloroethene	1.9	J	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	1,2-Dichloroethene (Total)	1.04	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	Bromodichloromethane	1.04	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	Methylene chloride	5.2	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	Tetrachloroethene	1.04	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	Toluene	2.31	J	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	Trichloroethene	1.04	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^L	Xylenes, Total	1.04	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Aroclor-1254	39.7	-	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Aroclor-1260	10.9	J	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Arsenic	6.7	-	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Barium	82	J	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Benzo(a)pyrene	95.7	J	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Benzo(b)fluoranthene	36.8	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Beryllium	0.57	-	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Cadmium	0.26	J	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Cesium-137	0.056	U	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Chromium	16.6	J	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Dibenzo(a,h)anthracene	36.8	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Dieldrin	1.47	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Indeno(1,2,3-cd)pyrene	36.8	U	ug/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Lead	14.4	J	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Lead-210	6.27	U	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Mercury	0.13	J	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Neptunium-237	0.145	U	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Radium-226	2.0904	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Radium-228	1.36	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Selenium	0.551	U	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Silver	0.087	J	mg/kg
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Technetium-99	3.81	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Thorium-228	1.37	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Thorium-230	5.3	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Thorium-232	1.36	-	pCi/g
A6SP7-DP-PC-3*	05-Sep-06	A6SP7-DP-PC-3^RMPS	Uranium, Total	70.7	-	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	1,1,1-Trichloroethane	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	1,1-Dichloroethene	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	1,2-Dichloroethene (Total)	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	Bromodichloromethane	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	Methylene chloride	5.55	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	Tetrachloroethene	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	Toluene	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	Trichloroethene	1.11	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^L	Xylenes, Total	1.11	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Aroclor-1254	3.98	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Aroclor-1260	3.98	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Arsenic	6.4	-	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Barium	93.6	J	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Benzo(a)pyrene	39.8	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Benzo(b)fluoranthene	39.8	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Beryllium	0.49	-	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Cadmium	0.16	J	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Cesium-137	0.042	U	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Chromium	17.8	J	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Dibenzo(a,h)anthracene	39.8	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Dieldrin	1.59	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Indeno(1,2,3-cd)pyrene	39.8	U	ug/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Lead	12.8	J	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Lead-210	8.92	U	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Mercury	0.02	J	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Neptunium-237	0.233	U	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Radium-226	0.962637	-	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Radium-228	1.17	-	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Selenium	0.568	U	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Silver	0.063	J	mg/kg
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Technetium-99	2.04	U	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Thorium-228	1.16	-	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Thorium-230	1.56	-	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Thorium-232	1.17	-	pCi/g
A6SP7-DP-PC-4	05-Sep-06	A6SP7-DP-PC-4^RMPS	Uranium, Total	6.02	-	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	1,1,1-Trichloroethane	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	1,1-Dichloroethene	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	1,2-Dichloroethene (Total)	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	Bromodichloromethane	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	Methylene chloride	5.98	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	Tetrachloroethene	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	Toluene	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	Trichloroethene	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^L	Xylenes, Total	1.2	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Aroclor-1254	12.7	J	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Aroclor-1260	3.87	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Arsenic	8.2	-	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Barium	125	J	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Benzo(a)pyrene	38.7	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Benzo(b)fluoranthene	38.7	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Beryllium	0.72	-	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Cadmium	0.23	J	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Cesium-137	0.05	U	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Chromium	25.3	J	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Dibenzo(a,h)anthracene	38.7	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Dieldrin	1.55	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Indeno(1,2,3-cd)pyrene	38.7	U	ug/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Lead	15	J	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Lead-210	6.45	U	pCi/g

• Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Mercury	0.029	J	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Neptunium-237	0.246	U	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Radium-226	1.04793	-	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Radium-228	1.24	-	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Selenium	0.571	U	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Silver	0.087	J	mg/kg
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Technetium-99	2.02	U	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Thorium-228	1.24	-	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Thorium-230	1.65	-	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Thorium-232	1.24	-	pCi/g
A6SP7-DP-PC-5	05-Sep-06	A6SP7-DP-PC-5^RMPS	Uranium, Total	16.2	-	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	1,1,1-Trichloroethane	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	1,1-Dichloroethene	1.91	J	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	1,2-Dichloroethene (Total)	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	Bromodichloromethane	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	Methylene chloride	6.1	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	Tetrachloroethene	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	Toluene	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	Trichloroethene	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^L	Xylenes, Total	1.22	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Aroclor-1254	4.09	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Aroclor-1260	4.09	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Arsenic	10.4	-	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Barium	119	J	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Benzo(a)pyrene	298	-	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Benzo(b)fluoranthene	524	-	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Beryllium	0.81	-	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Cadmium	0.34	J	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Cesium-137	0.048	U	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Chromium	28.6	J	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Dibenzo(a,h)anthracene	40.9	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Dieldrin	1.64	U	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Indeno(1,2,3-cd)pyrene	178	-	ug/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Lead	16.2	J	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Lead-210	5.85	U	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Mercury	0.03	J	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Neptunium-237	0.128	U	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Radium-226	0.998439	-	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Radium-228	0.969	-	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Selenium	0.61	U	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Silver	0.1	J	mg/kg
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Technetium-99	2.05	U	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Thorium-228	0.968	-	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Thorium-230	1.92	-	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Thorium-232	0.969	-	pCi/g
A6SP7-DP-PC-6	05-Sep-06	A6SP7-DP-PC-6^RMPS	Uranium, Total	6.67	-	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	1,1,1-Trichloroethane	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	1,1-Dichloroethene	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	1,2-Dichloroethene (Total)	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	Bromodichloromethane	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	Methylene chloride	5.63	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	Tetrachloroethene	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	Toluene	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	Trichloroethene	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^L	Xylenes, Total	1.13	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Aroclor-1254	34.5	-	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Aroclor-1260	12.9	J	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Arsenic	5.7	N	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Barium	121	J	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Benzo(a)pyrene	41.2	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Benzo(b)fluoranthene	41.2	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Beryllium	0.78	-	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Cadmium	0.29	J	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Cesium-137	0.067	U	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Chromium	25.7	J	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Dibenzo(a,h)anthracene	41.2	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Dieldrin	1.65	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Indeno(1,2,3-cd)pyrene	41.2	U	ug/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Lead	15.1	J	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Lead-210	6.01	U	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Mercury	0.034	J	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Neptunium-237	0.087	U	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Radium-226	1.248	-	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Radium-228	1.18	-	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Selenium	0.614	U	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Silver	0.097	B	mg/kg
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Technetium-99	2.05	U	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Thorium-228	1.18	-	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Thorium-230	1.45	-	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Thorium-232	1.18	-	pCi/g
A6SP7-DP-PC-7*	05-Sep-06	A6SP7-DP-PC-7^RMPS	Uranium, Total	5.45	-	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	1,1,1-Trichloroethane	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	1,1-Dichloroethene	1.63	J	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	1,2-Dichloroethene (Total)	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	Bromodichloromethane	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	Methylene chloride	4.88	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	Tetrachloroethene	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	Toluene	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	Trichloroethene	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^L	Xylenes, Total	0.976	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Aroclor-1254	91.9	-	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Aroclor-1260	26.6	-	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Arsenic	8.5	-	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Barium	125	J	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Benzo(a)pyrene	39.9	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Benzo(b)fluoranthene	206	-	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Beryllium	0.7	-	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Cadmium	0.48	J	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Cesium-137	0.047	U	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Chromium	39.5	-	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Dibenzo(a,h)anthracene	39.9	U	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Dieldrin	1.6	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Indeno(1,2,3-cd)pyrene	72	J	ug/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Lead	68.9	-	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Lead-210	9.13	U	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Mercury	0.047	J	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Neptunium-237	0.067	U	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Radium-226	2.92227	-	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Radium-228	2.3	-	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Selenium	0.575	U	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Silver	0.18	J	mg/kg
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Technetium-99	23.3	-	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Thorium-228	2.29	-	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Thorium-230	7.8	-	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Thorium-232	2.3	-	pCi/g
A6SP7-DP-PC-8*	05-Sep-06	A6SP7-DP-PC-8^RMPS	Uranium, Total	288	-	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	1,1,1-Trichloroethane	1.05	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	1,1-Dichloroethene	1.98	J	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	1,2-Dichloroethene (Total)	1.05	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	Bromodichloromethane	1.05	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	Methylene chloride	5.27	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	Tetrachloroethene	1.54	J	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	Toluene	1.05	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	Trichloroethene	1.9	J	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^L	Xylenes, Total	1.05	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Aroclor-1254	133	-	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Aroclor-1260	26.5	-	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Arsenic	5.8	-	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Barium	148	J	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Benzo(a)pyrene	146	-	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Benzo(b)fluoranthene	279	-	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Beryllium	0.83	-	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Cadmium	0.3	J	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Cesium-137	0.147	UJ	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Chromium	20.1	J	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Dibenzo(a,h)anthracene	40.3	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Dieldrin	1.61	U	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Indeno(1,2,3-cd)pyrene	96.8	J	ug/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Lead	30.1	J	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Lead-210	2.19	U	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Mercury	0.055	J	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Neptunium-237	0.143	U	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Radium-226	3.0381	-	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Radium-228	2.66	-	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Selenium	0.593	U	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Silver	0.1	J	mg/kg
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Technetium-99	40.3	-	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Thorium-228	2.69	-	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Thorium-230	7.76	-	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Thorium-232	2.66	-	pCi/g
A6SP7-DP-PC-9*	05-Sep-06	A6SP7-DP-PC-9^RMPS	Uranium, Total	720	-	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	1,1,1-Trichloroethane	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	1,1-Dichloroethene	1.04	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	1,2-Dichloroethene (Total)	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	Bromodichloromethane	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	Methylene chloride	5.2	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	Tetrachloroethene	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	Toluene	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	Trichloroethene	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^L	Xylenes, Total	1.04	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Aroclor-1254	132	-	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Aroclor-1260	55.8	-	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Arsenic	6.6	-	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Barium	91.9	J	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Benzo(a)pyrene	357	-	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Benzo(b)fluoranthene	635	-	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Beryllium	0.67	-	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Cadmium	0.4	J	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Cesium-137	0.099	U	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Chromium	24.5	J	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Dibenzo(a,h)anthracene	37.9	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Dieldrin	1.52	U	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Indeno(1,2,3-cd)pyrene	336	-	ug/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Lead	25.4	J	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Lead-210	2.59	J	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Mercury	0.053	J	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Neptunium-237	0.0695	U	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Radium-226	2.52213	-	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Radium-228	4.9	-	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Selenium	0.569	U	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Silver	0.47	J	mg/kg
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Technetium-99	9.08	J	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Thorium-228	4.82	J	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Thorium-230	10.7	J	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Thorium-232	4.9	-	pCi/g
A6SP7-LSP-PC-1*	05-Sep-06	A6SP7-LSP-PC-1^RMPS	Uranium, Total	196	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	1,1,1-Trichloroethane	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	1,1-Dichloroethene	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	1,2-Dichloroethene (Total)	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	Bromodichloromethane	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	Methylene chloride	4.91	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	Tetrachloroethene	14.8	J	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	Toluene	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	Trichloroethene	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^L	Xylenes, Total	0.983	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Aroclor-1254	32.4	-	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Aroclor-1260	17.7	-	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Arsenic	6.7	-	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Barium	77.5	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Benzo(a)pyrene	355	-	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Benzo(b)fluoranthene	506	-	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Beryllium	0.47	-	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Cadmium	0.27	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Cesium-137	0.0353	-	pCi/g

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Chromium	12.8	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Dibenzo(a,h)anthracene	37.4	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Dieldrin	1.5	U	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Indeno(1,2,3-cd)pyrene	315	-	ug/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Lead	24.8	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Lead-210	3.86	U	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Mercury	0.03	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Neptunium-237	0.136	U	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Radium-226	1.20588	-	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Radium-228	1.91	-	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Selenium	0.557	U	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Silver	0.067	J	mg/kg
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Technetium-99	1.81	U	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Thorium-228	1.92	J	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Thorium-230	3.64	J	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Thorium-232	1.91	-	pCi/g
A6SP7-LSP-PC-10	05-Sep-06	A6SP7-LSP-PC-10^RMPS	Uranium, Total	59.7	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	1,1,1-Trichloroethane	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	1,1-Dichloroethene	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	1,2-Dichloroethene (Total)	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	Bromodichloromethane	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	Methylene chloride	4.96	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	Tetrachloroethene	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	Toluene	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	Trichloroethene	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^L	Xylenes, Total	0.991	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Aroclor-1254	4.12	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Aroclor-1260	4.12	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Arsenic	6	-	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Barium	66.6	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Benzo(a)pyrene	41.2	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Benzo(b)fluoranthene	41.2	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Beryllium	1	-	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Cadmium	0.29	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Cesium-137	0.018	U	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Chromium	24.5	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Dibenzo(a,h)anthracene	41.2	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Dieldrin	1.65	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Indeno(1,2,3-cd)pyrene	41.2	U	ug/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Lead	19.7	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Lead-210	1.58	J	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Mercury	0.036	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Neptunium-237	0.15	U	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Radium-226	1.014234	-	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Radium-228	1.31	-	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Selenium	0.588	U	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Silver	0.1	J	mg/kg
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Technetium-99	1.83	U	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Thorium-228	1.31	J	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Thorium-230	1.67	J	pCi/g
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Thorium-232	1.31	-	pCi/g

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-11	05-Sep-06	A6SP7-LSP-PC-11^RMPS	Uranium, Total	10.3	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	1,1,1-Trichloroethane	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	1,1-Dichloroethene	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	1,2-Dichloroethene (Total)	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	Bromodichloromethane	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	Methylene chloride	5.6	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	Tetrachloroethene	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	Toluene	1.59	J	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	Trichloroethene	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^L	Xylenes, Total	1.12	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Aroclor-1254	5.1	J	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Aroclor-1260	3.84	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Arsenic	5.9	-	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Barium	94.5	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Benzo(a)pyrene	38.4	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Benzo(b)fluoranthene	38.4	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Beryllium	0.7	-	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Cadmium	0.29	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Cesium-137	0.074	U	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Chromium	18.2	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Dibenzo(a,h)anthracene	38.4	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Dieldrin	1.54	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Indeno(1,2,3-cd)pyrene	38.4	U	ug/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Lead	13	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Lead-210	0.956	J	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Mercury	0.019	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Neptunium-237	0.0284	U	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Radium-226	0.979485	-	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Radium-228	1.17	-	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Selenium	0.553	U	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Silver	0.077	J	mg/kg
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Technetium-99	1.76	U	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Thorium-228	1.17	J	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Thorium-230	1.6	J	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Thorium-232	1.17	-	pCi/g
A6SP7-LSP-PC-12	05-Sep-06	A6SP7-LSP-PC-12^RMPS	Uranium, Total	23.3	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	1,1,1-Trichloroethane	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	1,1-Dichloroethene	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	1,2-Dichloroethene (Total)	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	Bromodichloromethane	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	Methylene chloride	5.56	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	Tetrachloroethene	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	Toluene	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	Trichloroethene	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^L	Xylenes, Total	1.11	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Aroclor-1254	12.3	J	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Aroclor-1260	5.8	J	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Arsenic	5.5	-	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Barium	84.6	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Benzo(a)pyrene	37.4	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Benzo(b)fluoranthene	37.4	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Beryllium	0.57	-	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Cadmium	0.27	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Cesium-137	0.092	U	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Chromium	14.5	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Dibenzo(a,h)anthracene	37.4	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Dieldrin	1.5	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Indeno(1,2,3-cd)pyrene	37.4	U	ug/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Lead	14.2	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Lead-210	1.34	U	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Mercury	0.032	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Neptunium-237	0.12	U	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Radium-226	1.23747	-	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Radium-228	1.75	-	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Selenium	0.561	U	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Silver	0.065	J	mg/kg
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Technetium-99	1.99	U	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Thorium-228	1.75	J	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Thorium-230	3.19	J	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Thorium-232	1.75	-	pCi/g
A6SP7-LSP-PC-13	05-Sep-06	A6SP7-LSP-PC-13^RMPS	Uranium, Total	46.3	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	1,1,1-Trichloroethane	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	1,1-Dichloroethene	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	1,2-Dichloroethene (Total)	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	Bromodichloromethane	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	Methylene chloride	4.39	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	Tetrachloroethene	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	Toluene	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	Trichloroethene	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^L	Xylenes, Total	0.878	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Aroclor-1254	22	-	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Aroclor-1260	11.4	J	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Arsenic	4.7	-	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Barium	66.6	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Benzo(a)pyrene	40.9	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Benzo(b)fluoranthene	40.9	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Beryllium	0.48	-	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Cadmium	0.29	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Cesium-137	0.059	U	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Chromium	16.6	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Dibenzo(a,h)anthracene	40.9	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Dieldrin	1.63	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Indeno(1,2,3-cd)pyrene	40.9	U	ug/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Lead	16.6	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Lead-210	6.6	U	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Mercury	0.021	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Neptunium-237	0.155	U	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Radium-226	0.990015	-	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Radium-228	1.65	-	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Selenium	0.584	U	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Silver	0.064	J	mg/kg
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Technetium-99	2.14	J	pCi/g

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Thorium-228	1.65	J	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Thorium-230	3.77	J	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Thorium-232	1.65	-	pCi/g
A6SP7-LSP-PC-14	05-Sep-06	A6SP7-LSP-PC-14^RMPS	Uranium, Total	47.2	J	mg/kg
A6SP7-LSP-PC-15	16-Sep-06	A6SP7-LSP-PC-15^R	Radium-226	1.16376	-	pCi/g
A6SP7-LSP-PC-15	16-Sep-06	A6SP7-LSP-PC-15^R	Radium-228	1.1	-	pCi/g
A6SP7-LSP-PC-15	16-Sep-06	A6SP7-LSP-PC-15^R	Thorium-228	1.15	-	pCi/g
A6SP7-LSP-PC-15	16-Sep-06	A6SP7-LSP-PC-15^R	Thorium-232	1.1	-	pCi/g
A6SP7-LSP-PC-15	16-Sep-06	A6SP7-LSP-PC-15^R	Uranium, Total	7.43	J	mg/kg
A6SP7-LSP-PC-16	16-Sep-06	A6SP7-LSP-PC-16^R	Radium-226	0.988962	-	pCi/g
A6SP7-LSP-PC-16	16-Sep-06	A6SP7-LSP-PC-16^R	Radium-228	1.32	-	pCi/g
A6SP7-LSP-PC-16	16-Sep-06	A6SP7-LSP-PC-16^R	Thorium-228	1.36	-	pCi/g
A6SP7-LSP-PC-16	16-Sep-06	A6SP7-LSP-PC-16^R	Thorium-232	1.32	-	pCi/g
A6SP7-LSP-PC-16	16-Sep-06	A6SP7-LSP-PC-16^R	Uranium, Total	20.4	-	mg/kg
A6SP7-LSP-PC-17	16-Sep-06	A6SP7-LSP-PC-17^R	Radium-226	1.21641	-	pCi/g
A6SP7-LSP-PC-17	16-Sep-06	A6SP7-LSP-PC-17^R	Radium-228	1.38	-	pCi/g
A6SP7-LSP-PC-17	16-Sep-06	A6SP7-LSP-PC-17^R	Thorium-228	1.42	-	pCi/g
A6SP7-LSP-PC-17	16-Sep-06	A6SP7-LSP-PC-17^R	Thorium-232	1.38	-	pCi/g
A6SP7-LSP-PC-17	16-Sep-06	A6SP7-LSP-PC-17^R	Uranium, Total	28.9	-	mg/kg
A6SP7-LSP-PC-18	19-Sep-06	A6SP7-LSP-PC-18^R	Thorium-228	0.933	-	pCi/g
A6SP7-LSP-PC-18	19-Sep-06	A6SP7-LSP-PC-18^R	Thorium-232	0.957	-	pCi/g
A6SP7-LSP-PC-19	19-Sep-06	A6SP7-LSP-PC-19^R	Thorium-228	1.22	-	pCi/g
A6SP7-LSP-PC-19	19-Sep-06	A6SP7-LSP-PC-19^R	Thorium-232	1.2	-	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	1,1,1-Trichloroethane	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	1,1-Dichloroethene	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	1,2-Dichloroethene (Total)	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	Bromodichloromethane	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	Methylene chloride	4.62	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	Tetrachloroethene	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	Toluene	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	Trichloroethene	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^L	Xylenes, Total	0.925	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Aroclor-1254	33.9	-	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Aroclor-1260	15.9	-	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Arsenic	10.1	-	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Barium	94.7	J	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Benzo(a)pyrene	525	-	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Benzo(b)fluoranthene	851	-	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Beryllium	0.72	-	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Cadmium	0.31	J	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Cesium-137	0.162	-	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Chromium	19.6	J	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Dibenzo(a,h)anthracene	38.9	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Dieldrin	1.56	U	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Indeno(1,2,3-cd)pyrene	466	-	ug/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Lead	20.3	J	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Lead-210	2.11	J	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Mercury	0.048	J	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Neptunium-237	0.0614	U	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Radium-226	1.70079	-	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Radium-228	4.22	-	pCi/g

* Indicates sample location was excavated.

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Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Selenium	0.555	U	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Silver	0.092	J	mg/kg
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Technetium-99	3.33	J	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Thorium-228	4.26	J	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Thorium-230	5.33	J	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Thorium-232	4.22	-	pCi/g
A6SP7-LSP-PC-2*	05-Sep-06	A6SP7-LSP-PC-2^RMPS	Uranium, Total	120	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	1,1,1-Trichloroethane	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	1,1-Dichloroethene	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	1,2-Dichloroethene (Total)	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	Bromodichloromethane	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	Methylene chloride	5.08	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	Tetrachloroethene	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	Toluene	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	Trichloroethene	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^L	Xylenes, Total	1.02	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Aroclor-1254	9.4	J	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Aroclor-1260	4.5	J	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Arsenic	4.7	-	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Barium	75	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Benzo(a)pyrene	38.3	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Benzo(b)fluoranthene	38.3	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Beryllium	0.55	-	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Cadmium	0.28	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Cesium-137	0.046	U	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Chromium	12.9	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Dibenzo(a,h)anthracene	38.3	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Dieldrin	1.53	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Indeno(1,2,3-cd)pyrene	38.3	U	ug/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Lead	18.5	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Lead-210	5.39	U	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Mercury	0.04	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Neptunium-237	0.183	U	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Radium-226	1.10058	-	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Radium-228	1.71	-	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Selenium	0.563	U	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Silver	0.062	J	mg/kg
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Technetium-99	1.84	U	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Thorium-228	1.73	J	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Thorium-230	2.28	J	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Thorium-232	1.71	-	pCi/g
A6SP7-LSP-PC-3	05-Sep-06	A6SP7-LSP-PC-3^RMPS	Uranium, Total	37.9	J	mg/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	1,1,1-Trichloroethane	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	1,1-Dichloroethene	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	1,2-Dichloroethene (Total)	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	Bromodichloromethane	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	Methylene chloride	4.52	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	Tetrachloroethene	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	Toluene	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	Trichloroethene	0.904	U	ug/kg
A6SP7-LSP-PC-4	05-Sep-06	A6SP7-LSP-PC-4^L	Xylenes, Total	0.904	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Aroclor-1254	7.8	J	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Aroclor-1260	4.07	U	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Arsenic	5.8	-	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Barium	103	J	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Benzo(a)pyrene	40.7	U	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Benzo(b)fluoranthene	40.7	U	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Beryllium	0.69	-	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Cadmium	0.25	J	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Cesium-137	0.041	U	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Chromium	18	J	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Dibenzo(a,h)anthracene	40.7	U	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Dieldrin	1.63	U	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Indeno(1,2,3-cd)pyrene	40.7	U	ug/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Lead	19	J	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Lead-210	7.48	U	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Mercury	0.037	J	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Neptunium-237	0.0961	U	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Radium-226	1.46913	-	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Radium-228	2.88	-	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Selenium	0.611	U	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Silver	0.073	J	mg/kg
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Technetium-99	1.82	U	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Thorium-228	3.25	J	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Thorium-230	0.435	J	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Thorium-232	2.88	-	pCi/g
A6SP7-LSP-PC-4	06-Sep-06	A6SP7-LSP-PC-4^RMPS	Uranium, Total	50.5	J	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	1,1,1-Trichloroethane	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	1,1-Dichloroethene	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	1,2-Dichloroethene (Total)	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	Bromodichloromethane	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	Methylene chloride	5.06	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	Tetrachloroethene	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	Toluene	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	Trichloroethene	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^L	Xylenes, Total	1.01	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Aroclor-1254	3.85	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Aroclor-1260	3.85	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Arsenic	6.5	-	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Barium	86.3	J	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Benzo(a)pyrene	38.5	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Benzo(b)fluoranthene	38.5	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Beryllium	0.62	-	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Cadmium	0.3	J	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Cesium-137	0.052	U	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Chromium	14	J	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Dibenzo(a,h)anthracene	38.5	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Dieldrin	1.54	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Indeno(1,2,3-cd)pyrene	38.5	U	ug/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Lead	15.4	J	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Lead-210	4.77	U	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Mercury	0.029	J	mg/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Neptunium-237	0.197	U	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Radium-226	0.956319	-	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Radium-228	0.954	-	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Selenium	0.552	U	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Silver	0.064	J	mg/kg
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Technetium-99	1.74	U	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Thorium-228	0.953	J	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Thorium-230	1.32	J	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Thorium-232	0.954	-	pCi/g
A6SP7-LSP-PC-5	05-Sep-06	A6SP7-LSP-PC-5^RMPS	Uranium, Total	5.32	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	1,1,1-Trichloroethane	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	1,1-Dichloroethene	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	1,2-Dichloroethene (Total)	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	Bromodichloromethane	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	Methylene chloride	4.9	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	Tetrachloroethene	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	Toluene	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	Trichloroethene	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^L	Xylenes, Total	0.98	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Aroclor-1254	5.4	J	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Aroclor-1260	4	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Arsenic	5.5	-	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Barium	93.1	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Benzo(a)pyrene	40	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Benzo(b)fluoranthene	40	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Beryllium	0.73	-	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Cadmium	0.24	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Cesium-137	0.078	U	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Chromium	17.7	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Dibenzo(a,h)anthracene	40	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Dieldrin	1.6	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Indeno(1,2,3-cd)pyrene	40	U	ug/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Lead	14.6	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Lead-210	1.39	J	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Mercury	0.028	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Neptunium-237	0.0926	U	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Radium-226	0.966849	-	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Radium-228	1	-	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Selenium	0.598	U	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Silver	0.066	J	mg/kg
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Technetium-99	1.87	U	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Thorium-228	0.99	J	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Thorium-230	1.4	J	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Thorium-232	1	-	pCi/g
A6SP7-LSP-PC-6	05-Sep-06	A6SP7-LSP-PC-6^RMPS	Uranium, Total	8.77	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	1,1,1-Trichloroethane	0.992	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	1,1-Dichloroethene	2.54	J	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	1,2-Dichloroethene (Total)	0.992	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	Bromodichloromethane	0.992	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	Methylene chloride	4.96	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	Tetrachloroethene	0.992	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	Toluene	0.992	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	Trichloroethene	0.992	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^L	Xylenes, Total	0.992	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Aroclor-1254	8.2	J	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Aroclor-1260	5.2	J	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Arsenic	5.3	-	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Barium	81.4	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Benzo(a)pyrene	42	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Benzo(b)fluoranthene	42	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Beryllium	0.71	-	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Cadmium	0.23	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Cesium-137	0.026	U	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Chromium	17.7	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Dibenzo(a,h)anthracene	42	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Dieldrin	1.68	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Indeno(1,2,3-cd)pyrene	42	U	ug/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Lead	15.8	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Lead-210	4.08	U	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Mercury	0.017	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Neptunium-237	0.112	U	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Radium-226	1.00581	-	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Radium-228	1.43	-	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Selenium	0.6	U	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Silver	0.06	J	mg/kg
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Technetium-99	1.86	U	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Thorium-228	1.41	J	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Thorium-230	1.26	J	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Thorium-232	1.43	-	pCi/g
A6SP7-LSP-PC-7	05-Sep-06	A6SP7-LSP-PC-7^RMPS	Uranium, Total	23.6	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	1,1,1-Trichloroethane	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	1,1-Dichloroethene	1.08	J	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	1,2-Dichloroethene (Total)	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	Bromodichloromethane	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	Methylene chloride	5.39	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	Tetrachloroethene	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	Toluene	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	Trichloroethene	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^L	Xylenes, Total	1.08	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Aroclor-1254	16.6	-	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Aroclor-1260	6.6	J	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Arsenic	5.9	-	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Barium	65.4	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Benzo(a)pyrene	152	-	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Benzo(b)fluoranthene	37.4	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Beryllium	0.68	-	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Cadmium	0.28	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Cesium-137	0.049	U	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Chromium	16.8	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Dibenzo(a,h)anthracene	37.4	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Dieldrin	1.5	U	ug/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Indeno(1,2,3-cd)pyrene	37.4	U	ug/kg

* Indicates sample location was excavated.

LIME SCALE PIT - DUMP PIT PRECERTIFICATION DATA

Boring	Sample Date	SampleID	Parameter	Result	Qual	Units
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Lead	15.4	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Lead-210	1.27	-	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Mercury	0.059	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Neptunium-237	0.12	U	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Radium-226	1.75344	-	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Radium-228	7.01	-	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Selenium	0.534	U	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Silver	0.065	J	mg/kg
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Technetium-99	1.75	U	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Thorium-228	7.31	J	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Thorium-230	4.01	J	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Thorium-232	7.01	-	pCi/g
A6SP7-LSP-PC-8*	05-Sep-06	A6SP7-LSP-PC-8^RMPS	Uranium, Total	136	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	1,1,1-Trichloroethane	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	1,1-Dichloroethene	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	1,2-Dichloroethene (Total)	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	Bromodichloromethane	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	Methylene chloride	5.18	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	Tetrachloroethene	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	Toluene	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	Trichloroethene	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^L	Xylenes, Total	1.04	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Aroclor-1254	5.5	J	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Aroclor-1260	4.01	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Arsenic	7.1	-	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Barium	73.5	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Benzo(a)pyrene	178	-	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Benzo(b)fluoranthene	40.1	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Beryllium	0.98	-	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Cadmium	0.33	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Cesium-137	0.035	U	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Chromium	23.6	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Dibenzo(a,h)anthracene	40.1	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Dieldrin	1.6	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Indeno(1,2,3-cd)pyrene	40.1	U	ug/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Lead	15.3	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Lead-210	0.837	J	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Mercury	0.034	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Neptunium-237	0.0369	U	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Radium-226	1.12164	-	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Radium-228	1.18	-	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Selenium	0.586	U	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Silver	0.1	J	mg/kg
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Technetium-99	1.91	U	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Thorium-228	1.18	J	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Thorium-230	1.64	J	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Thorium-232	1.18	-	pCi/g
A6SP7-LSP-PC-9	05-Sep-06	A6SP7-LSP-PC-9^RMPS	Uranium, Total	24.1	J	mg/kg

* Indicates sample location was excavated.

APPENDIX B

VARIANCE/FIELD CHANGE NOTICES FOR THE CDL AND CERTIFICATION PSP FOR THE FORMER SWL, SP-7 FOOTPRINT, SWM POND, AND RAILYARD DRAINAGE BASIN AREA

VARIANCE / FIELD CHANGE NOTICE

Permanent Change to SOW? YES

V/F: 20600-PSP-0021-01

WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A

Page: 1 of 2

PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area

Date: 9/5/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of one soil sample from sub-CU A6-SWL-C02-2. Coordinate with Jim Turpin (205-5150).

The sample to be collected is to be placed randomly within the sub-CU and will be collected from the top 6 inches of the soil. The sample will be submitted for benzo(a)pyrene (TAL J) analysis.

See Attachment 1 for Sampling and Analytical requirement and the TAL.

The sample shall be identified as A6-SWL-C02-17^S, where:

A6 = Area 6
SWL = Solid Waste Landfill
C02 = Certification Unit 02
17 = Consecutive Sample Number (location)
S = semi-volatile analysis

Surveying required: Yes. Sample locations will be field located, then surveyed by surveyors.
Field data validation: Yes

Justification:
Sample location A6-SWL-C02-2 was identified to be above-FRL for benzo(a)pyrene with a result of 41,100 ug/kg. The sample location will be excavated but prior to excavation a random sample for benzo(a)pyrene will be collected from within the sub-CU. Per Section 6.4 of the PSP, any changes to the PSP will be documented with a V/FCN.

REQUESTED BY: Denise Arico — Date: 9/5/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske	9/19/06	X	PROJECT MANAGER: J.D. Chiou	9/28/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25 Sep 06
X	ANALYTICAL CUSTOMER SUPPORT:	9/25/06		RTIMP Manager	
x dma	WAG 9/28/06		X	SAMPLING MANAGER: T. Fehrlage	9/14/06

VARIANCE/FCN APPROVED [X]YES [ ]NO — REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL	Method	Matrix	ASL	TAT	Preserve	Container[a]	Minimum Mass
TAL J benzo(a)pyrene	GC	Soil	D	10 days	Cool 4° C	Appropriate Size Glass	100 g

Special Instructions (samplers):
[a]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the sample mass requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
No field QC will be collected under this V/FCN.
Analytical Data Validation is required.
Data Package Requirement – Full data package
Historical Data for shipping: 31.4 mg/kg total uranium from boring A6-SWL-C02-3

TAL 20600-PSP-0021-J
(1 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Benzo(a)pyrene	2000 mg/kg	200 mg/kg

MDC - minimum detection concentration

VARIANCE / FIELD CHANGE NOTICE

Significant Scientific Issues

V/F: 20600-PSP-0021-02

WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A

Page: 1 of 2

PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area

Date: 9/11/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of one soil sample from CU A6-SWL-C02 following the excavation of an above-FRL sample location (A6-SWL-C02-2). Coordinate with Jim Turpin (205-5150).

The sample to be collected will be sampled at the same location as sample A6-SWL-C02-2 following excavation. The sample will be collected from the top 6 inches of the soil and submitted for benzo(a)pyrene (TAL J) analysis.

See Attachment 1 for Sampling and Analytical requirement and the TAL.

The sample shall be identified as A6-SWL-C02-18^S, where:

A6 = Area 6
SWL = Solid Waste Landfill
C02 = Certification Unit 02
18 = Consecutive Sample Number (location)
S = semi-volatile analysis

Surveying required: Yes. Surveying will be completed prior to sampling.
Field data validation: Yes

Justification:
Sample location A6-SWL-C02-2 was identified to be above-FRL for benzo(a)pyrene with a result of 41,100 ug/kg. Following excavation of the location, a physical sample must be collected for benzo(a)pyrene. Per Section 6.4 of the PSP, any changes to the PSP will be documented with a V/FCN.

REQUESTED BY: Denise Arico — Date: 9/11/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Friske	9-19-06	X	PROJECT MANAGER: J.D. Chiou	9/28/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25 Sep 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul S. McGurrigan	9/25/06		RTIMP Manager	
X dm	QAO 9/28/06		X	SAMPLING MANAGER: T. Burlage Tom Burlage	9/14/06

VARIANCE/FCN APPROVED [X]YES [ ]NO — REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL	Method	Matrix	ASL	TAT	Preserve	Container[a]	Minimum Mass
TAL J benzo(a)pyrene	GC	Soil	D	10 days	Cool 4° C	Appropriate Size Glass	100 g

Special Instructions (samplers):
[a]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the sample mass requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
No field QC will be collected under this V/FCN.
Analytical Data Validation is required.
Data Package Requirement – Full data package
Historical Data for shipping: 31.4 mg/kg total uranium from boring A6-SWL-C02-3

TAL 20600-PSP-0021-J
(1 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Benzo(a)pyrene	2000 mg/kg	200 mg/kg

MDC - minimum detection concentration

VARIANCE / FIELD CHANGE NOTICE	V/F: 20600-PSP-0021-03
WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A	Page: 1 of 2
PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area	Date: 9/13/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of four soil samples – two from CU A6-SP7-C05 and two from A6-SP7-C06 – following the excavation of above-FRL sample locations (A6-SP7-C05-4 and A6-SP7-C06-14). Coordinate with Jim Turpin (205-5150).

Sample location A6-SP7-C05-4 is above-FRL for radium-226, radium-228, thorium-228, thorium-232, and total uranium. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for radium-226, radium-228, thorium-228, thorium-232, and total uranium (TAL A) analysis. The samples shall be identified as A6-SP7-C05-17^R and A6-SP7-C05-18^R.

Sample location A6-SP7-C06-14 is above-FRL for radium-228, thorium-228, thorium-232, and total uranium. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for radium-228, thorium-228, thorium-232, and total uranium (TAL M) analysis. The samples shall be identified as A6-SP7-C06-17^R and A6-SP7-C06-18^R.

See Attachment 1 for Sampling and Analytical requirement and the TAL.

The sample IDs are defined as follows:

A6 = Area 6
SP7 = SP7 Footprint Area
C05 = Certification Unit 05
C06 = Certification Unit 06
17, 18 = Consecutive Sample Numbers (locations)
R = radiological analysis

Surveying required: Yes. By Surveying.
Field data validation: Yes

Justification:
Sample locations A6-SP7-C05-4 and A6-SP7-C06-14 were identified to be above-FRL and require excavation. Following excavation of each location, a physical sample will be collected from the original sample location as well as one random location within each sub-CU. Per Section 6.4 of the PSP, any changes to the PSP will be documented with a V/FCN.

REQUESTED BY: Denise Arico Date: 9/13/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Frisk	9/19/06	X	PROJECT MANAGER: J.D. Chiou	9/28/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25 Sep 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul J. Anderson	9/25/06		RTIMP Manager	
X	WAO	9/20/06	X	SAMPLING MANAGER: T. Buhelage	9/23/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL	Method	Matrix	ASL	TAT[b]	Preserve	Container[a]	Minimum Mass
TAL A or M (Rads)	Gamma Spec	Soil	D	10 days	None	Appropriate Size Plastic	300 g

Special Instructions (samplers):
[a]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the sample mass requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
[b]Samples will go through a 7-day in-growth, and shall have "7DAY" noted in the suffix field of the EDD.

No field QC will be collected under this V/FCN.
Analytical Data Validation is required.
Data Package Requirement – Full data package
Historical Data for shipping: 163 mg/kg total uranium from boring A6-SP7-C05-4

TAL 20600-PSP-0021-A
(2 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Total Uranium	82 mg/kg	8.2 mg/kg
Radium-226	1.7 pCi/g	0.3 pCi/g
Radium-228	1.8 pCi/g	0.3 pCi/g
Thorium-228	1.7 pCi/g	0.3 pCi/g
Thorium-232	1.5 pCi/g	0.3 pCi/g

TAL 20600-PSP-0021-M
(2 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Total Uranium	82 mg/kg	8.2 mg/kg
Radium-228	1.8 pCi/g	0.3 pCi/g
Thorium-228	1.7 pCi/g	0.3 pCi/g
Thorium-232	1.5 pCi/g	0.3 pCi/g

MDC - minimum detection concentration

VARIANCE / FIELD CHANGE NOTICE	Signature Required? YES	V/F: 20600-PSP-0021-04
WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A		Page: 1 of 3
PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area		Date: 9/16/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of eight soil samples – two from CU A6-SP7-C03 and six for A6-SP7-C04 – following the excavation of above-FRL sample locations (A6-SP7-C03-15, A6SP7-C04-9, A6-SP7-C04-12, and A6-SP7-C04-13). Coordinate with Jim Turpin (205-5150).

Sample location A6-SP7-C03-15 is above-FRL for total uranium, aroclor-1254 and aroclor-1260. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for total uranium (TAL N), aroclor-1254 and aroclor-1260 (TAL G) analysis. The samples shall be identified as A6-SP7-C03-17^RP and A6-SP7-C03-18^RP, and are flagged in the field.

Sample location A6-SP7-C04-9 is above-FRL for total uranium. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for total uranium (TAL N) analysis. The samples shall be identified as A6-SP7-C04-18^R and A6-SP7-C04-21^R, and are flagged in the field.

Sample location A6-SP7-C04-12 is above-FRL for total uranium and aroclor-1254. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for total uranium (TAL N) and aroclor-1254 (TAL O) analysis. The samples shall be identified as A6-SP7-C04-17^RP and A6-SP7-C04-22^RP, and are flagged in the field.

Sample location A6-SP7-C04-13 is above-FRL for total uranium. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for total uranium (TAL N) analysis. The samples shall be identified as A6-SP7-C04-19^R and A6-SP7-C04-20^R, and are flagged in the field.

See Attachment 1 for Sampling and Analytical requirement and the TALs.

VARIANCE / FIELD CHANGE NOTICE		V/F: 20600-PSP-0021-04
WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A		Page: 2 of 3
PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area		Date: 9/16/06

The sample IDs are defined as follows:

A6 = Area 6
SP7 = SP7 Footprint Area
C03 = Certification Unit 05
C04 = Certification Unit 06
17, 18, etc = Consecutive Sample Numbers (locations)
R = radiological analysis
P = PCB analysis

Surveying required: Yes. By Surveying.
Field data validation: Yes

Justification:
Sample locations A6-SP7-C03-15, A6SP7-C04-9, A6-SP7-C04-12, and A6-SP7-C04-13 were identified to be above-FRL and require excavation. Following excavation of each location, a physical sample will be collected from the original sample location as well as one random location within each sub-CU. Per Section 6.4 of the PSP, any changes to the PSP will be documented with a V/FCN.

REQUESTED BY: Denise Arico Date: 9/16/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Fricke	9-18-06	X	PROJECT MANAGER: J.D. Chiou	9/28/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25 Sep 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul J. McGurgan	9/25/06		RTIMP Manager	
	WAO		X	SAMPLING MANAGER: T. Bahrlage	9/27/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL	Method	Matrix	ASL	TAT	Preserve	Container[a]	Minimum Mass
TAL N (Total Uranium)	Gamma Spec	Soil	D	48 hours	None	Appropriate Size Plastic	300 g
TAL N&G or N&O (Total Uranium & PCBs)	Gamma Spec	Soil	D	48 hours	Cool 4° C	Glass	500 g
	GC			7 days			

Special Instructions (samplers):
[a]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the sample mass requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
No field QC will be collected under this V/FCN.
Analytical Data Validation is required.
Data Package Requirement – Full data package
Historical Data for shipping: 163 mg/kg total uranium from boring A6-SP7-C05-4

TAL 20600-PSP-0021-G
(2 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Aroclor-1254	0.13 mg/kg	0.013 mg/kg
Aroclor-1260	0.13 mg/kg	0.013 mg/kg

TAL 20600-PSP-0021-N
(8 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Total Uranium	82 mg/kg	8.2 mg/kg

TAL 20600-PSP-0021-O
(2 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Aroclor-1254	0.13 mg/kg	0.013 mg/kg

MDC - minimum detection concentration

VARIANCE / FIELD CHANGE NOTICE	V/F: 20600-PSP-0021-05
WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A	Page: 1 of 2
PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area	Date: 9/20/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of four soil samples from A6-SP7-C04 following the excavation of above-FRL sample locations (A6-SP7-C04-18 and A6SP7-C04-20). Coordinate with Jim Turpin (205-5150).

Sample location A6-SP7-C04-18 is above-FRL for total uranium. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for total uranium (TAL N) analysis. The samples shall be identified as A6-SP7-C04-23^R and A6-SP7-C04-24^R.

Sample location A6-SP7-C04-20 is above-FRL for total uranium. Following excavation of this location, one sample will be collected randomly from within the sub-CU and one sample will be collected from the excavated sample location. The two samples will be submitted for total uranium (TAL N) analysis. The samples shall be identified as A6-SP7-C04-25^R and A6-SP7-C04-26^R.

See Attachment 1 for Sampling and Analytical requirement and the TALs.

The sample IDs are defined as follows:

A6 = Area 6
SP7 = SP7 Footprint Area
C04 = Certification Unit 04
23, 24, etc = Consecutive Sample Numbers (locations)
R = radiological analysis

Surveying required: Yes. By Surveying.
Field data validation: Yes

Justification:
Sample locations A6-SP7-C04-18, and A6-SP7-C04-20 were identified to be above-FRL and require excavation. Following excavation of each location, a physical sample will be collected from the original sample location as well as one random location within each sub-CU. Per Section 6.4 of the PSP, any changes to the PSP will be documented with a V/FCN.

REQUESTED BY: Denise Arico Date: 9/20/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Briske	9/21/06	X	PROJECT MANAGER: J.D. Chiou	9/26/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	25 Sep 06
X	ANALYTICAL CUSTOMER SUPPORT: Paul J. McGuigan	9/25/06		RTIMP Manager	
	WAO		X	SAMPLING MANAGER: T. Buhriage	9/27/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL	Method	Matrix	ASL	TAT	Preserve	Container[a]	Minimum Mass
TAL N (Total Uranium)	Gamma Spec or ICP-MS	Soil	D	24 hours	None	Appropriate Size Plastic	300 g

Special Instructions (samplers):
[a]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the sample mass requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
No field QC will be collected under this V/FCN.
Analytical Data Validation is required.
Data Package Requirement – Full data package
Historical Data for shipping: 461 mg/kg total uranium from boring A6-SP7-C04-18, 5.26 pCi/g thorium-230 from boring A6-SP7-C04-7.

TAL 20600-PSP-0021-N
(8 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Total Uranium	82 mg/kg	8.2 mg/kg

MDC - minimum detection concentration

VARIANCE / FIELD CHANGE NOTICE	Significant? (Yes or No): YES	V/F: 20600-PSP-0021-06
WBS NO.: PROJECT/DOCUMENT/ECDC # 20600-PSP-0021 Rev.A		Page: 1 of 2
PROJECT TITLE: CDL and Certification PSP for the Former Solid Waste Landfill, Soil Pile-7 Footprint, Stormwater Management Pond and Railyard Drainage Basin Area		Date: 9/27/06

VARIANCE / FIELD CHANGE NOTICE (Include justification):

This Variance/Field Change Notice (V/FCN) documents the collection of three soil samples from A6-SP7-C04 following the excavation of above-FRL sample locations (A6-SP7-C04-17 and A6-SP7-C04-22). Coordinate with Jim Turpin (205-5150).

Sample locations A6-SP7-C04-17 and A6-SP7-C04-22 are above-FRL for Aroclor-1254. Following excavation of these locations, one sample will be collected randomly from within the sub-CU and one sample will be collected from each of the excavated sample locations. The three samples will be submitted for Aroclor-1254 (TAL O) analysis. The samples shall be identified as A6-SP7-C04-27^P, A6-SP7-C04-28^P, and A6-SP7-C04-29^P.

See Attachment 1 for Sampling and Analytical requirement and the TALs.

The sample IDs are defined as follows:

A6 = Area 6
SP7 = SP7 Footprint Area
C04 = Certification Unit 04
27, 28, etc = Consecutive Sample Numbers (locations)
P = PCB analysis

Surveying required: Yes. By Surveying.
Field data validation: Yes

Justification:
Sample locations A6-SP7-C04-17, and A6-SP7-C04-22 were identified to be above-FRL and require excavation. Following excavation of each location, a physical sample will be collected from the original sample locations as well as one random location within the sub-CU. Per Section 6.4 of the PSP, any changes to the PSP will be documented with a V/FCN.

REQUESTED BY: Denise Arico Date: 9/27/06

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: R. Fiske	10-4-06	X	PROJECT MANAGER: J.D. Chiou	9/28/06
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION MANAGER: R. Abitz	9/28/06
X	ANALYTICAL CUSTOMER SUPPORT: Paul S. McGuigan	9/28/06		RTIMP Manager	
	WAO		X	SAMPLING MANAGER: T. Buhrlage	9/27/06

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Rich Abitz	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ATTACHMENT 1

SAMPLING AND ANALYTICAL REQUIREMENTS

TAL	Method	Matrix	ASL	TAT	Preserve	Container[a]	Minimum Mass
TAL O (Aroclor-1254)	GC	Soil	D	3 days	Cool 4° C	Glass	100 g

Special Instructions (samplers):
[a]Sample container types may be changed at the direction of the Field Sampling Lead, as long as the sample mass requirements, container compatibility requirements, and SCQ requirements are met.

Special Instructions (SPL/Lab):
No field QC will be collected under this V/FCN.
Analytical Data Validation is required.
Data Package Requirement – Full data package
Historical Data for shipping: 461 mg/kg total uranium from boring A6-SP7-C04-18, 5.26 pCi/g thorium-230 from boring A6-SP7-C04-7.

TAL 20600-PSP-0021-O
(3 estimated soil samples specified in V/FCN)

Analyze	FRL	MDC
Aroclor-1254	0.13 mg/kg	0.013 mg/kg

MDC - minimum detection concentration

APPENDIX C

ANALYTICAL RESULTS AND FINAL STATISTICS TABLES

APPENDIX C
STATISTICAL ABBREVIATIONS AND SYMBOLS

The procedure used to determine if the data are to be assumed to be either normally distributed or lognormally distributed is outlined in Section G.2.3 of Appendix G to the SEP. The second paragraph under "Step 3: Perform the Shapiro-Wilk Test to evaluate if the data are normally or lognormally distributed" states that "If the Shapiro-Wilk Test indicates both normal and lognormal distributions fit the data, the distribution with the highest p-value will be used in the Student's t-Test (Section G.2.2.2) to make the certification decision." Therefore, the distribution testing procedure is not a matter of transforming the data and then testing for lognormality only when the normality assumption fails as the comment seems to imply. The method is to test both normality and lognormality and select the distribution that "best" fits the data as defined by the test yielding the higher p-value above a minimum acceptable value. The minimum acceptable p-value for acceptance of a distribution was set at 0.05.

Abbreviations:

W-Statistic Probability - Shapiro-Wilk probability of the "better" fit - either normal or lognormal (note: a value less than 0.05 indicates that neither normality nor lognormality could be accepted, but the highest p-value is still shown.)

t-Test (N) - indicates that the normal distribution is best fit to data with a p-value greater than or equal to 0.05.

t-Test (LN) - indicates that the lognormal distribution is best fit to data with a p-value greater than or equal to 0.05.

Sign Test - the Sign test was used because one of the following situations occurred:

1. there were greater than 50 percent non-detects,
2. between 15 and 50 percent non-detects and data not symmetrically distributed,
3. less than 15 percent non-detects, but fails Shapiro-Wilk test for both normality and lognormality and data not symmetrically distributed.

Wilcoxon SR - the Wilcoxon Signed Rank procedure was used because of one of the following situations:

1. between 15 and 50 percent non-detects and data symmetrically distributed,
2. less than 15 percent non-detects, but fails Shapiro-Wilk test for both normality and lognormality and data symmetrically distributed.

Note: Data was considered to be "symmetrically distributed" if the Standardized Skewness had an Absolute Value of less than or equal to 2.00 (i.e., between -2.00 and 2.00).

Number of NDs - number of non-detects.

@ - maximum result was below the FRL indicating that no statistical result needed to be reported.

ATTACHMENT C.1

FAILING PRELIMINARY CERTIFICATION STATISTICS

CU A6-SP7-C03 FAILURES

SAMPLEID	Uranium, Total	Aroclor-1254	Aroclor-1260
A6-SP7-C03-1	25.7 J	15.4 -	8.3 J
A6-SP7-C03-3	16.3 J	13.7 -	7.7 J
A6-SP7-C03-4	23 J	4 U	4 U
A6-SP7-C03-4-D	17.6 J	4.2 U	4.2 U
A6-SP7-C03-5	24.4 J	14.9 -	7 J
A6-SP7-C03-7	89.1 J	48.9 -	24.1 -
A6-SP7-C03-8	55.8 J	21.1 -	11.7 J
A6-SP7-C03-9	61.2 J	66.1 -	33.5 -
A6-SP7-C03-10	48.9 J	108 -	55.8 -
A6-SP7-C03-11	11.6 J	3.9 J	3.9 U
A6-SP7-C03-14	53.1 J	3.9 U	3.9 U
A6-SP7-C03-15	132 J	5500 -	3170 -
A6-SP7-C03-16	16.2 J	25.8 -	13 -
Limit	82	130	130
Units	mg/kg	ug/kg	ug/kg
Conf. Level	95%	90%	90%
Max. Result	**132**	**5500**	**3170**
Max. >= Limit	Yes	Yes	Yes
W-statistic Prob. #	65.0% (LN)	8.2% (LN)	1.7% (LN)
Test Procedure	Lognormal	Median (Sign)	Median (Sign)
Sample Size	12	12	12
Nondetects	0	2	3
% Nondetects	0%	17%	25%
Est. Mean*	47.70	18.25	10
UCL	84.10	48.9	24.1
Prob. > Limit	- -	- -	- -
Pass / Fail	FAIL	Pass	Pass

a posteriori Sample	7	5	5
Size calculation	Pass	Pass	Pass

CU A6-SP7-C04 FAILURES

SAMPLEID	Uranium, Total	Aroclor-1254
A6-SP7-C04-1	17.8 -	3.7 U
A6-SP7-C04-2	2.96 U	3.8 U
A6-SP7-C04-3	61.9 -	27.7 -
A6-SP7-C04-5	80.1 -	170 -
A6-SP7-C04-6	53.8 -	25.5 -
A6-SP7-C04-7	87.2 -	12.4 J
A6-SP7-C04-9	116 -	40 -
A6-SP7-C04-11	74.8 -	60.5 -
A6-SP7-C04-12	86.9 -	426 -
A6-SP7-C04-13	113 -	7.1 J
A6-SP7-C04-13-D	105 -	51.9 J
A6-SP7-C04-14	56.6 -	67.9 -
A6-SP7-C04-16	7.56 -	4.8 J
Limit	82	130
Units	mg/kg	ug/kg
Conf. Level	95%	90%
Max. Result	**116**	**426**
Max. >= Limit	Yes	Yes
W-statistic Prob. #	42.9% (N)	62.1% (LN)
Test Procedure	Normal	Median (Sign)
Sample Size	12	12
Nondetects	1	2
% Nondetects	8%	17%
Est. Mean*	63.095	33.850
UCL	82.821	60.500
Prob. > Limit	- -	- -
Pass / Fail	FAIL	pass

a posteriori Sample Size calculation	27 Fail	9 Pass

CU A6-SP7-C05 FAILURES

SAMPLEID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A6-SP7-C05-1	0.971 J	0.679 J	0.683 -	0.679 J	17.5 -
A6-SP7-C05-3	1.14 J	1.17 J	1.28 -	1.17 J	4.89 J
A6-SP7-C05-3-D	1.26 J	1.02 J	0.966 -	1.02 J	3.98 -
A6-SP7-C05-4	3.71 -	1.93 -	1.93 -	1.93 -	163 -
A6-SP7-C05-5	0.979 J	0.9 J	0.973 -	0.9 J	11.1 -
A6-SP7-C05-6	1.33 J	0.869 J	0.812 -	0.869 J	18.4 -
A6-SP7-C05-8	0.865 J	0.688 J	0.667 -	0.688 J	8.98 -
A6-SP7-C05-9	1.06 J	0.819 J	0.827 -	0.819 J	26.7 -
A6-SP7-C05-10	1 J	0.87 J	0.931 -	0.87 J	8.74 -
A6-SP7-C05-12	1.07 -	0.961 -	0.944 -	0.961 -	49.2 -
A6-SP7-C05-13	0.951 J	0.787 J	0.816 -	0.787 J	11.3 J
A6-SP7-C05-15	0.887 J	0.619 J	0.599 -	0.619 J	12.6 -
A6-SP7-C05-16	0.996 -	0.992 -	1.07 -	0.992 -	14.3 -
Limit	1.7	1.8	1.7	1.5	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg
Conf. Level	95%	95%	95%	95%	95%
Max. Result	**3.71**	**1.93**	**1.93**	**1.93**	**163**
Max. >= Limit	Yes	Yes	Yes	Yes	Yes
W-statistic Prob. #	< 0.01% (LN)	8.8% (LN)	36.6% (LN)	8.8% (LN)	12.3% (LN)
Test Procedure	Median (Sign)	Lognormal	Lognormal	Lognormal	Lognormal
Sample Size	12	12	12	12	12
Nondetects	0	0	0	0	0
% Nondetects	0%	0%	0%	0%	0%
Est. Mean*	0.998	0.939	0.960	0.939	26.025
UCL	1.260	1.117	1.156	1.117	56.208
Prob. > Limit	- -	- -	- -	- -	- -
Pass / Fail	pass	pass	pass	pass	pass

a posteriori Sample	7	3	3	4	4
Size calculation	Pass	Pass	Pass	Pass	Pass

CU A6-SP7-C06 FAILURES

SAMPLEID	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A6-SP7-C06-2	0.995 -	1.01 -	0.995 -	11.3 J
A6-SP7-C06-3	0.944 -	0.932 -	0.944 -	10.9 J
A6-SP7-C06-4	1.07 -	1.09 -	1.07 -	37.5 J
A6-SP7-C06-5	1.03 -	1.04 -	1.03 -	19 J
A6-SP7-C06-7	0.893 -	0.892 -	0.893 -	13.2 J
A6-SP7-C06-8	0.628 J	0.625 J	0.628 J	7.59 -
A6-SP7-C06-9	1.38 -	1.34 -	1.38 -	58.2 J
A6-SP7-C06-11	1.11 -	1.13 -	1.11 -	17.5 J
A6-SP7-C06-12	1.68 -	1.91 -	1.68 -	95.6 J
A6-SP7-C06-13	1.29 -	1.27 -	1.29 -	36.3 J
A6-SP7-C06-13-D	1.22 -	1.21 -	1.22 -	29.6 J
A6-SP7-C06-14	5.54 -	5.65 -	5.54 -	120 J
A6-SP7-C06-16	0.624 -	0.623 -	0.624 -	4.94 J
Limit	1.8	1.7	1.5	82
Units	pCi/g	pCi/g	pCi/g	mg/kg
Conf. Level	95%	95%	95%	95%
Max. Result	**5.54**	**5.65**	**5.54**	**120**
Max. >= Limit	Yes	Yes	Yes	Yes
W-statistic Prob. #	< 0.01% (LN)	1.4% (LN)	< 0.01% (LN)	70.7% (LN)
Test Procedure	Median (Sign)	Median (Sign)	Median (Sign)	Lognormal
Sample Size	12	12	12	12
Nondetects	0	0	0	0
% Nondetects	0%	0%	0%	0%
Est. Mean*	1.050	1.065	1.050	37.619
UCL	1.380	1.340	1.380	91.452
Prob. > Limit	- -	- -	- -	- -
Pass / Fail	pass	pass	pass	FAIL

a posteriori Sample	7	12	12	6
Size calculation	Pass	Pass	Pass	Pass

ATTACHMENT C.2

FINAL STATISTICS TABLES

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Antimony	Cadmium
A6-SWMP-C01-2	0.891 -	0.694 -	0.682 -	0.694 -	14.4 -	0.436 U	0.139 J
A6-SWMP-C01-3	0.83 -	0.854 -	0.911 -	0.854 -	7.53 -	0.542 U	0.172 J
A6-SWMP-C01-4	1.01 -	0.808 -	0.776 -	0.808 -	11.8 -	0.444 U	0.201 J
A6-SWMP-C01-6	1.07 -	1.06 -	1.1 -	1.06 -	13.6 -	0.447 U	0.175 J
A6-SWMP-C01-7	0.911 -	0.751 -	0.701 -	0.751 -	11.8 -	0.422 U	0.158 J
A6-SWMP-C01-8	0.978 -	0.75 -	0.711 -	0.75 -	8.22 -	0.419 U	0.153 J
A6-SWMP-C01-9	1.2 -	0.875 -	0.866 -	0.875 -	15 -	0.471 U	0.147 J
A6-SWMP-C01-10	0.791 -	0.683 -	0.671 -	0.683 -	12.7 -	0.464 U	0.167 J
A6-SWMP-C01-12	0.901 -	0.909 -	0.876 -	0.909 -	16.1 -	0.439 U	0.164 J
A6-SWMP-C01-13	0.759 -	0.624 -	0.629 -	0.624 -	9.18 -	0.483 U	0.155 J
A6-SWMP-C01-15	1 -	1.01 -	1.05 -	1.01 -	10.8 -	0.43 U	0.156 J
A6-SWMP-C01-16	1.04 -	0.983 -	1.04 -	0.983 -	7.61 -	0.616 U	0.187 J
A6-SWMP-C01-16-D	1.13 -	0.961 -	0.946 -	0.961 -	5.29 J	0.469 U	0.189 J
Limit	1.7	1.8	1.7	1.5	82	96	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%
Max. Result	1.2	1.06	1.1	1.06	16.1	0.616 U	0.201
Max. >= Limit	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	12	0
% Nondetects	0%	0%	0%	0%	0%	100%	0%
Est. Mean*	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Technetium-99	Antimony	Arsenic	Beryllium	Cadmium
A6-SWL-C01-1	1 -	0.854 -	0.891 J	0.854 -	6.07 -	0.834 U	0.461 U	5.47 J	0.516 J	0.21 J
A6-SWL-C01-2	0.901 -	0.724 -	0.682 J	0.724 -	7.74 -	0.861 U	0.503 U	7.47 J	0.53 J	0.212 J
A6-SWL-C01-2-D	0.986 -	0.826 -	0.867 J	0.826 -	4.36 J	0.825 U	0.398 U	4.45 J	0.311 J	0.298 J
A6-SWL-C01-4	1.04 -	0.619 -	0.575 J	0.619 -	3.35 U	0.877 U	0.469 U	4.4 J	0.401 J	0.162 J
A6-SWL-C01-6	0.959 -	0.687 -	0.709 J	0.687 -	2.85 U	0.833 U	0.413 U	6.55 J	0.373 J	0.16 J
A6-SWL-C01-7	0.958 -	1.02 -	1.04 -	1.02 -	6.21 -	0.811 U	0.866 U	9.9 -	0.917 -	0.275 J
A6-SWL-C01-8	0.982 -	0.635 -	0.642 J	0.635 -	5.4 -	1.73 -	0.441 U	5.38 J	0.344 J	0.164 J
A6-SWL-C01-9	0.997 -	0.854 -	0.859 J	0.854 -	7.35 -	0.819 U	0.43 U	5.4 J	0.405 J	0.144 J
A6-SWL-C01-10	0.783 -	0.791 -	0.884 J	0.791 -	8.22 -	0.864 U	0.452 U	4.14 J	0.376 J	0.153 J
A6-SWL-C01-11	1.13 -	0.796 -	0.796 J	0.796 -	3.58 U	0.943 U	0.431 U	5.45 J	0.444 J	0.183 J
A6-SWL-C01-13	1.21 -	0.959 -	0.917 -	0.959 -	11 -	0.894 U	0.747 U	8.11 -	0.685 -	0.212 J
A6-SWL-C01-15	1.03 -	0.817 -	0.823 J	0.817 -	6.09 -	0.814 U	0.45 U	5.72 J	0.419 J	0.194 J
A6-SWL-C01-16	0.892 -	0.625 -	0.654 J	0.625 -	6.43 -	0.799 U	0.467 U	7.87 J	0.541 J	0.243 J
Limit	1.7	1.8	1.7	1.5	38.6	30	96	12	1.5	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%
Max. Result	1.21	1.02	1.04	1.02	11	1.73	0.866 U	9.9	0.917	0.298
Max. >= Limit	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	3	11	12	0	0	0
% Nondetects	0%	0%	0%	0%	25%	92%	100%	0%	0%	0%
Est. Mean*	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--	--

Sample ID	Benzo(a)pyrene	Aroclor-1254	Aroclor-1260
A6-SWL-C01-1	39.9 U	4 U	4 U
A6-SWL-C01-2	39.4 U	3.9 U	3.9 U
A6-SWL-C01-2-D	39.8 U	4 U	4 U
A6-SWL-C01-4	101 J	4 U	4 U
A6-SWL-C01-6	37.1 U	3.7 U	3.7 U
A6-SWL-C01-7	378 U	6.3 U	6.3 U
A6-SWL-C01-8	40.2 U	4 U	4 U
A6-SWL-C01-9	40.8 U	4.1 U	4.1 U
A6-SWL-C01-10	40.2 U	4 U	4 U
A6-SWL-C01-11	41.9 U	4.4 J	4.2 U
A6-SWL-C01-13	387 U	6.5 U	6.5 U
A6-SWL-C01-15	44.6 U	19.1 -	12 J
A6-SWL-C01-16	38.8 U	3.9 U	3.9 U
Limit	2000	130	130
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	101	19.1	12
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	11	10	11
% Nondetects	92%	83%	92%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Technetium-99	Antimony	Arsenic	Beryllium	Cadmium
A6-SWL-C02-1	0.991 -	0.985 -	0.985 -	0.985 -	7.63 J	2.03 U	2.22 UJ	8.5 J	0.87 -	0.47 J
A6-SWL-C02-2	0.95 -	0.885 -	0.894 -	0.885 -	14.7 J	2.01 U	0.55 U	6.7 J	0.61 -	0.25 J
A6-SWL-C02-2-D	0.99 -	0.784 -	0.782 -	0.784 -	9.68 J	2.11 U	0.404 UJ	6 J	0.6 -	0.25 J
A6-SWL-C02-3	0.973 -	1.11 -	1.1 -	1.11 -	31.4 J	2.02 U	0.425 UJ	6.9 J	0.71 -	0.23 J
A6-SWL-C02-5	1.12 -	1.05 -	1.06 -	1.05 -	18.3 J	1.81 U	0.441 UJ	8.8 J	0.95 -	0.34 J
A6-SWL-C02-6	1.09 -	0.975 -	0.964 -	0.975 -	14.8 J	2.1 U	0.411 UJ	8.3 J	1.1 -	0.31 J
A6-SWL-C02-7	0.976 -	0.931 -	0.937 -	0.931 -	12.9 J	2.16 U	0.412 UJ	5.9 J	0.65 -	0.26 J
A6-SWL-C02-9	0.752 -	0.675 -	0.665 -	0.675 -	5.37 J	1.93 U	0.442 UJ	4.6 J	0.51 -	0.2 J
A6-SWL-C02-10	1.03 -	0.924 -	0.926 -	0.924 -	18.7 J	1.83 U	0.419 UJ	5.8 J	0.75 -	0.24 J
A6-SWL-C02-12	1.11 -	1.2 -	1.23 -	1.2 -	15.6 J	1.98 U	0.425 UJ	9 J	0.69 -	0.18 J
A6-SWL-C02-13	0.955 -	0.932 -	0.937 -	0.932 -	8.34 J	1.95 U	0.402 UJ	7.8 J	0.86 -	0.28 J
A6-SWL-C02-14	1.04 -	1.09 -	1.12 -	1.09 -	18.7 J	2.05 U	0.455 UJ	9.6 J	0.84 -	0.26 J
A6-SWL-C02-16	0.988 -	1.11 -	1.11 -	1.11 -	8.92 J	2.13 U	0.42 UJ	6.1 J	0.76 -	0.21 J
A6-SWL-C02-17 •	--	--	--	--	--	--	--	--	--	--
A6-SWL-C02-18 *	--	--	--	--	--	--	--	--	--	--
Limit	1.7	1.8	1.7	1.5	38.6	30	96	12	1.5	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%
Max. Result	1.12	1.2	1.23	1.2	31.4	2.16 U	2.22 UJ	9.6	1.1	0 .47
Max. >= Limit	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--		--	--
Test Procedure	--	--	--	--	--	--	--		--	--
Sample Size	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	12	12	0	0	0
% Nondetects	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%
Est. Mean*	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--
a posteriori Sample	--	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--	--

• Newly collected data after excavation in sub-CU A6-SWL-C02-2.

Sample ID	Benzo(a)pyrene	Aroclor-1254	Aroclor-1260
A6-SWL-C02-1	196 J	3.8 U	3.8 U
A6-SWL-C02-2	- -	7.8 J	5.3 J
A6-SWL-C02-2-D	- -	19.3 J	10.7 J
A6-SWL-C02-3	3270 J	13.8 J	8.2 J
A6-SWL-C02-5	391 J	23 J	12.4 J
A6-SWL-C02-6	329 J	6.4 J	4.7 J
A6-SWL-C02-7	962 J	3.7 J	3.6 U
A6-SWL-C02-9	173 J	3.7 U	3.7 U
A6-SWL-C02-10	1390 J	4 J	3.6 U
A6-SWL-C02-12	146 J	3.7 U	3.7 U
A6-SWL-C02-13	135 J	3.5 U	3.5 U
A6-SWL-C02-14	152 J	4 NJ	4 NJ
A6-SWL-C02-16	136 J	3.6 U	3.6 U
A6-SWL-C02-17 *	39.8 U	- -	- -
A6-SWL-C02-18 •	130 J	- -	- -
Limit	2000	130	130
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	3270	23	12.4
Max. >= Limit	Yes	No	No
W-statistic Prob. #	1.2% (LN)	- -	- -
Test Procedure	Median (Sign)	- -	- -
Sample Size	12	12	12
Nondetects	0	5	7
% Nondetects	0%	42%	58%
Est. Mean*	184.5	- -	- -
UCL	391.0	- -	- -
Prob. > Limit	- -	- -	- -
Pass / Fail	Pass	- -	- -
a posteriori Sample	5	- -	- -
Size calculation	Pass	- -	- -

* Newly collected data after excavation in sub-CU A6-SWL-C02-2.

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Technetium-99	Antimony	Arsenic	Beryllium	Cadmium
A6-SWL-C03-2	0.957 -	0.762 -	0.77 -	0.762 -	8.93 -	0.799 U	0.424 U	7.26 -	0.398 -	0.191 J
A6-SWL-C03-3	1.2 -	1.24 -	1.26 -	1.24 -	7.87 -	0.803 U	0.448 U	5.95 -	0.447 -	0.0635 J
A6-SWL-C03-4	1.03 -	0.789 -	0.78 -	0.789 -	8.9 -	0.789 U	0.404 U	7.12 -	0.847 -	0.241 J
A6-SWL-C03-5	1.29 -	1.1 -	1.11 -	1.1 -	7.53 -	0.838 U	0.469 U	11.2 -	0.875 -	0.181 J
A6-SWL-C03-6	1.35 -	1.11 -	1.09 -	1.11 -	4.68 J	0.872 U	0.383 U	12.1 -	0.745 -	0.452 J
A6-SWL-C03-8	1.28 -	1.04 -	1.05 -	1.04 -	8.81 -	0.887 U	0.884 U	18.8 -	0.72 -	0.43 J
A6-SWL-C03-9	1.22 J	0.969 J	1.04 -	0.969 J	7.12 J	0.848 U	0.594 U	11.2 -	0.761 -	0.212 J
A6-SWL-C03-11	1.16 J	0.983 J	0.889 -	0.983 J	10.6 -	1.09 J	0.35 U	7.45 -	0.465 -	0.111 J
A6-SWL-C03-11-D	1.03 J	0.894 J	0.851 -	0.894 J	12 -	0.835 U	0.548 U	7.95 -	0.481 -	0.148 J
A6-SWL-C03-12	0.957 -	0.961 -	0.984 -	0.961 -	8.31 -	0.807 U	0.441 U	9.36 -	0.448 -	0.163 J
A6-SWL-C03-13	1.01 J	0.589 J	0.568 -	0.589 J	13.2 -	0.802 U	0.4 U	6.81 -	0.329 -	0.149 J
A6-SWL-C03-14	1.24 -	0.871 -	0.936 -	0.871 -	5.85 J	0.79 U	0.412 U	7.88 -	0.485 -	0.18 J
A6-SWL-C03-16	0.857 -	0.713 -	0.684 -	0.713 -	10 -	0.764 U	0.393 U	6.48 -	0.362 -	0.179 J
Limit	1.7	1.8	1.7	1.5	38.6	30	96	12	1.5	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%
Max. Result	1.35	1.24	1.26	1.24	13.2	1.09	0.884 U	18.8	0.875	0.452
Max. >= Limit	No	No	No	No	No	No	No	Yes	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	26.3% (LN)	--	--
Test Procedure	--	--	--	--	--	--	--	Lognormal	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	11	12	0	0	0
% Nondetects	0%	0%	0%	0%	0%	92%	100%	0%	0%	0%
Est. Mean*	--	--	--	--	--	--	--	9.340	--	--
UCL	--	--	--	--	--	--	--	10.802	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	pass	--	--

a posteriori Sample	--	--	--	--	--	--	--	7	--	--
Size calculation	--	--	--	--	--	--	--	Pass	--	--

Sample ID	Benzo(a)pyrene	Aroclor-1254	Aroclor-1260
A6-SWL-C03-2	36.4 U	3.6 U	3.6 U
A6-SWL-C03-3	35.8 U	3.6 U	3.6 U
A6-SWL-C03-4	168 J	6.4 J	3.6 U
A6-SWL-C03-5	36.9 U	3.7 U	3.7 U
A6-SWL-C03-6	40.1 U	4 U	4 U
A6-SWL-C03-8	39.3 U	3.9 U	3.9 U
A6-SWL-C03-9	41 U	4.1 U	4.1 U
A6-SWL-C03-11	41.3 U	4.1 U	4.1 U
A6-SWL-C03-11-D	40.5 U	6.1 J	4.1 U
A6-SWL-C03-12	35.1 U	3.5 U	3.5 U
A6-SWL-C03-13	68.1 J	11.3 J	4.5 J
A6-SWL-C03-14	143 J	3.6 U	3.6 U
A6-SWL-C03-16	281 J	16.1 -	5.1 J
Limit	2000	130	130
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	281	16.1	5.1
Max. >= Limit	No	No	No
W-statistic Prob. #	- -	- -	- -
Test Procedure	- -	- -	- -
Sample Size	12	12	12
Nondetects	8	8	10
% Nondetects	67%	67%	83%
Est. Mean*	- -	- -	- -
UCL	- -	- -	- -
Prob. > Limit	- -	- -	- -
Pass / Fail	- -	- -	- -

a posteriori Sample	- -	- -	- -
Size calculation	- -	- -	- -

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Technetium-99	Antimony	Arsenic	Beryllium	Cadmium
A6-SWL-C04-1	0.934 J	0.904 J	0.97 -	0.904 J	2.6 -	0.775 U	0.594 U	7.86 -	0.552 -	0.225 J
A6-SWL-C04-1-D	1.14 J	0.931 J	0.942 -	0.931 J	3.66 U	0.79 U	0.434 U	8.02 -	0.654 -	0.157 J
A6-SWL-C04-2	1.04 J	0.767 J	0.769 -	0.767 J	3.48 U	0.773 U	0.524 U	8.66 -	0.558 -	0.188 J
A6-SWL-C04-3	0.929 J	0.801 J	0.824 -	0.801 J	5.1 J	0.865 U	0.33 U	5.21 -	0.372 -	0.163 J
A6-SWL-C04-5	0.932 J	0.823 J	0.85 -	0.823 J	12.8 -	0.929 U	0.564 U	6.74 -	0.487 -	0.173 J
A6-SWL-C04-6	0.985 J	0.828 J	0.824 -	0.828 J	6.24 -	0.841 U	0.391 U	6.56 -	0.367 -	0.182 J
A6-SWL-C04-7	1.11 J	0.891 J	0.867 -	0.891 J	17.2 -	0.868 U	0.402 U	7.22 -	0.577 -	0.231 J
A6-SWL-C04-9	0.99 J	0.68 J	0.656 -	0.68 J	3.48 U	0.805 U	0.311 U	5 -	0.384 -	0.131 J
A6-SWL-C04-10	1.03 J	0.687 J	0.68 -	0.687 J	3.96 J	0.789 U	0.379 U	4.86 -	0.343 -	0.12 J
A6-SWL-C04-12	1.12 J	1.1 J	1.25 -	1.1 J	5.98 -	0.968 U	0.589 U	9.21 -	0.67 -	0.253 J
A6-SWL-C04-13	0.873 J	0.714 J	0.701 -	0.714 J	7.61 -	0.775 U	0.402 U	7.5 -	0.614 -	0.184 J
A6-SWL-C04-14	1.02 J	0.841 J	0.883 -	0.841 J	13.8 -	0.86 U	0.52 U	8.96 -	0.466 -	0.159 J
A6-SWL-C04-16	0.767 J	0.612 J	0.61 -	0.612 J	7.15 J	0.779 U	0.292 U	9.14 -	0.3 -	0.115 J
Limit	1.7	1.8	1.7	1.5	38.6	30	96	12	1.5	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%
Max. Result	1.14	1.1	1.25	1.1	17.2	0.968 U	0.594 U	9.21	0.67	0.253
Max. >= Limit	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	2	12	12	0	0	0
% Nondetects	0%	0%	0%	0%	17%	100%	100%	0%	0%	0%
Est. Mean*	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--	--

Sample ID	Benzo(a)pyrene	Aroclor-1254	Aroclor-1260
A6-SWL-C04-1	38.8 U	6 J	3.9 U
A6-SWL-C04-1-D	41 U	9.8 J	4.1 U
A6-SWL-C04-2	99 J	6 J	3.8 U
A6-SWL-C04-3	38.9 U	3.9 U	3.9 U
A6-SWL-C04-5	38.8 U	3.9 U	3.9 U
A6-SWL-C04-6	47.6 J	3.8 U	3.8 U
A6-SWL-C04-7	166 J	4.1 U	4.1 U
A6-SWL-C04-9	39.9 U	4 U	4 U
A6-SWL-C04-10	39.5 U	4 U	4 U
A6-SWL-C04-12	39.3 U	3.9 U	3.9 U
A6-SWL-C04-13	53.1 J	3.9 U	3.9 U
A6-SWL-C04-14	41.1 U	4.1 U	4.1 U
A6-SWL-C04-16	41 U	4.1 U	4.1 U
Limit	2000	130	130
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	166	9.8	4.1 U
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	8	10	12
% Nondetects	67%	83%	100%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Lead-210	Neptunium-237	Technetium-99
A6-SP7-C01-1	0.862 -	0.77 -	0.779 -	0.77 -	9.64 -	0.0289 U	2.95 U	0.152 U	1.19 U
A6-SP7-C01-3	1.06 -	0.966 -	0.969 -	0.966 -	5.39 -	0.0313 U	6.23 U	0.205 U	1.15 U
A6-SP7-C01-4	0.886 -	0.948 -	0.955 -	0.948 -	9.31 -	0.0306 J	3.23 U	0.165 U	1.14 U
A6-SP7-C01-5	1.18 -	1.1 -	1.11 -	1.1 -	9.03 -	0.0323 U	3.09 U	0.135 U	1.19 U
A6-SP7-C01-7	1.05 -	1.13 -	1.13 -	1.13 -	6.24 -	0.0303 U	2.98 U	0.18 U	1.22 U
A6-SP7-C01-8	1.01 -	1.04 -	1.03 -	1.04 -	6.24 -	0.0359 U	1.06 -	0.114 U	1.24 U
A6-SP7-C01-10	0.831 -	0.827 -	0.822 -	0.827 -	7.92 -	0.0337 U	0.666 J	0.206 U	1.09 U
A6-SP7-C01-11	0.907 -	0.837 -	0.827 -	0.837 -	11 -	0.0618 J	4.37 U	0.227 U	1.16 U
A6-SP7-C01-12	0.976 -	0.835 -	0.852 -	0.835 -	8.08 -	0.0526 U	5.6 U	0.194 U	1.15 U
A6-SP7-C01-13	0.848 -	0.776 -	0.78 -	0.776 -	2.68 J	0.0413 U	5.86 U	0.263 U	1.12 U
A6-SP7-C01-13-D	0.804 -	0.784 -	0.8 -	0.784 -	4.27 -	0.0574 U	5.57 U	0.132 U	1.15 U
A6-SP7-C01-14	0.732 -	0.758 -	0.773 -	0.758 -	3.23 J	0.0418 U	8 U	0.178 U	1.21 U
A6-SP7-C01-15	0.87 -	0.787 -	0.775 -	0.787 -	3.06 -	0.0522 U	0.623 U	0.182 U	1.17 U
Limit	1.7	1.8	1.7	1.5	82	1.4	38	3.2	30
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	pCi/g	pCi/g	pCi/g
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%
Max. Result	1.18	1.13	1.13	1.13	11	0.0618	1.06	0.263 U	1.24 U
Max. >= Limit	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	10	10	12	12
% Nondetects	0%	0%	0%	0%	0%	83%	83%	100%	100%
Est. Mean*	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--

CU A6-SP7-C01

Sample ID	Thorium-230	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Lead	Mercury	Molybdenum	Selenium	Silver
A6-SP7-C01-1	1.17 J	2.11 U	5.3 -	81.3 J	0.48 -	0.527 U	17 J	19.2 J	0.035 J	1.6 J	3.16 U	0.105 U
A6-SP7-C01-3	1.69 J	3.7 U	5.8 -	84.9 J	0.68 -	0.565 U	17.3 J	18.5 J	0.023 J	0.78 J	3.39 U	0.113 U
A6-SP7-C01-4	1.97 J	3.1 U	5.2 -	89.1 J	0.43 -	0.529 U	20.7 J	12.1 J	0.014 J	1.3 J	3.18 U	0.106 U
A6-SP7-C01-5	1.75 J	3.3 U	6.7 -	179 J	0.77 -	0.581 U	33.8 -	15.2 J	0.037 J	1.4 J	3.48 U	0.116 U
A6-SP7-C01-7	1.16 J	2.35 U	8.4 -	161 J	0.87 -	0.587 U	30.7 -	16.5 J	0.029 J	0.87 J	3.52 U	0.117 U
A6-SP7-C01-8	1.42 J	3.1 U	7 -	128 J	0.81 -	0.578 U	28.4 J	14.4 J	0.024 J	1.4 J	3.47 U	0.116 U
A6-SP7-C01-10	1.19 J	4 U	6 -	106 J	0.69 -	0.548 U	24.5 J	13.2 J	0.022 J	1.3 J	3.29 U	0.11 U
A6-SP7-C01-11	1.49 J	1.1 U	6.7 -	94.7 J	0.68 -	0.49 J	20.9 J	10.5 J	0.015 J	1.3 J	0.663 U	0.111 U
A6-SP7-C01-12	1.37 J	2.6 U	16.9 -	192 J	0.5 -	0.55 U	22.9 J	15 J	0.016 J	1.6 J	3.3 U	0.11 U
A6-SP7-C01-13	1.28 J	2.8 U	5.4 -	90.8 J	0.59 -	0.55 U	21.1 J	11 J	0.011 J	1.7 J	3.3 U	0.11 U
A6-SP7-C01-13-D	0.997 J	0.71 U	5.5 -	76.2 J	0.67 -	0.33 J	18.2 J	8.2 J	0.013 J	1.6 J	0.668 U	0.111 U
A6-SP7-C01-14	1.01 J	0.97 U	8 -	89.4 J	0.68 -	0.4 J	19.2 J	10.2 J	0.014 J	1.7 J	0.654 U	0.109 U
A6-SP7-C01-15	0.864 J	0.55 U	5.6 -	77.7 J	0.62 -	0.43 J	20.5 J	9.2 J	0.013 J	1.7 J	0.667 U	0.111 U
Limit	280	96	12	68000	1.5	82	300	400	7.5	2900	5400	29000
Units	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	1.97	4 U	16.9	192	0 .87	0.49	33.8	19.2	0 .037	1.7	3.52 U	0.117 U
Max. >= Limit	No	No	Yes	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	< 0.01% (LN)	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	Median (Sign)	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12	12	12
Nondetects	0	12	0	0	0	8	0	0	0	0	12	12
% Nondetects	0%	100%	0%	0%	0%	67%	0%	0%	0%	0%	100%	100%
Est. Mean*	--	--	6.35	--	--	--	--	--	--	--	--	--
UCL	--	--	7.0	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	Pass	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	5	--	--	--	--	--	--	--	--	--
Size calculation	--	--	Pass	--	--	--	--	--	--	--	--	--

Sample ID	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Aroclor-1254	Aroclor-1260	Dieldrin
A6-SP7-C01-1	36.8 U	36.8 U	36.8 U	36.8 U	3.7 U	3.7 U	1.5 U
A6-SP7-C01-3	49.2 J	103 J	38.8 U	38.8 U	6.1 J	3.9 U	1.6 U
A6-SP7-C01-4	42 J	91.9 J	36.8 U	36.8 U	3.7 U	3.7 U	1.5 U
A6-SP7-C01-5	81.9 J	134 J	39.9 U	39.9 U	4 U	4 U	1.6 U
A6-SP7-C01-7	39.7 U	39.7 U	39.7 U	39.7 U	4 U	4 U	1.6 U
A6-SP7-C01-8	39.2 U	39.2 U	39.2 U	39.2 U	3.9 U	3.9 U	1.6 U
A6-SP7-C01-10	38 U	38 U	38 U	38 U	3.8 U	3.8 U	1.5 U
A6-SP7-C01-11	37.7 U	37.7 U	37.7 U	37.7 U	12.5 J	4.8 J	1.5 U
A6-SP7-C01-12	38.4 U	38.4 U	38.4 U	38.4 U	3.8 U	3.8 U	1.5 U
A6-SP7-C01-13	37.3 U	37.3 U	37.3 U	37.3 U	3.7 U	3.7 U	1.5 U
A6-SP7-C01-13-D	37.2 U	37.2 U	37.2 U	37.2 U	3.7 U	3.7 U	1.5 U
A6-SP7-C01-14	37.1 U	37.1 U	37.1 U	37.1 U	3.7 U	3.7 U	1.5 U
A6-SP7-C01-15	37.2 U	37.2 U	37.2 U	37.2 U	3.7 U	3.7 U	1.5 U
Limit	2000	20000	2000	20000	130	130	15
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%
Max. Result	81.9	134	39.9 U	39.9 U	12.5	4.8	1.6 U
Max. >= Limit	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12
Nondetects	9	9	12	12	10	11	12
% Nondetects	75%	75%	100%	100%	83%	92%	100%
Est. Mean*	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--

Sample ID	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethene (Total)	Bromodichloromethane	Methylene chloride	Tetrachloroethene
A6-SP7-C01-1	0.9 U	0.9 U	0.9 U	0.9 U	4.6 U	0.9 U
A6-SP7-C01-3	0.9 U	0.9 U	0.9 U	0.9 U	4.3 U	0.9 U
A6-SP7-C01-4	1 U	1 U	1 U	1 U	5.2 U	1 U
A6-SP7-C01-5	1 U	1 U	1 U	1 U	4.8 U	1 U
A6-SP7-C01-7	1 U	1 U	1 U	1 U	5 U	1 U
A6-SP7-C01-8	0.9 U	0.9 U	0.9 U	0.9 U	4.6 U	0.9 U
A6-SP7-C01-10	0.9 U	0.9 U	0.9 U	0.9 U	4.4 U	0.9 U
A6-SP7-C01-11	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U
A6-SP7-C01-12	0.8 U	0.8 U	0.8 U	0.8 U	4.1 U	0.8 U
A6-SP7-C01-13	0.9 U	0.9 U	0.9 U	0.9 U	4.5 U	0.9 U
A6-SP7-C01-13-D	1 U	1 U	1 U	1 U	5 U	1 U
A6-SP7-C01-14	0.9 U	0.9 U	0.9 U	0.9 U	4.5 U	0.9 U
A6-SP7-C01-15	0.9 U	0.9 U	0.9 U	0.9 U	4.4 U	0.9 U
Limit	4300	410	160	4000	37000	3600
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%
Max. Result	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	12	12	12	12	12	12
% Nondetects	100%	100%	100%	100%	100%	100%
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Sample ID	Toluene	Trichloroethene	Xylenes, Total
A6-SP7-C01-1	0.9 U	0.9 U	0.9 U
A6-SP7-C01-3	0.9 U	0.9 U	0.9 U
A6-SP7-C01-4	1 U	1 U	1 U
A6-SP7-C01-5	1 U	1 U	1 U
A6-SP7-C01-7	1 U	1 U	1 U
A6-SP7-C01-8	0.9 U	0.9 U	0.9 U
A6-SP7-C01-10	0.9 U	0.9 U	0.9 U
A6-SP7-C01-11	1.1 U	1.1 U	1.1 U
A6-SP7-C01-12	0.8 U	0.8 U	0.8 U
A6-SP7-C01-13	0.9 U	0.9 U	0.9 U
A6-SP7-C01-13-D	1 U	1 U	1 U
A6-SP7-C01-14	0.9 U	0.9 U	0.9 U
A6-SP7-C01-15	0.9 U	0.9 U	0.9 U
Limit	100000000	25000	920000000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	1.1 U	1.1 U	1.1 U
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	12	12	12
% Nondetects	100%	100%	100%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Lead-210	Neptunium-237	Technetium-99	Thorium-230
A6-SP7-C02-2	0.916 -	0.868 -	0.87 -	0.868 -	4.29 -	0.0627 U	6.52 U	0.211 U	2.12 U	1.29 -
A6-SP7-C02-3	1.05 -	1.17 -	1.18 -	1.17 -	8.12 -	0.048 U	5.02 U	0.12 U	1.88 U	1.25 J
A6-SP7-C02-4	0.984 -	1.04 -	1.04 -	1.04 -	17.4 -	0.0457 U	4.85 U	0.101 U	1.9 U	1.76 -
A6-SP7-C02-5	0.964 -	0.911 -	0.878 -	0.911 -	6.97 -	0.0365 U	5.91 U	0.0283 U	1.95 U	0.724 J
A6-SP7-C02-6	1.12 -	1.05 -	1.06 -	1.05 -	6.22 -	0.0484 U	5.65 U	0.238 U	2.08 U	1.31 -
A6-SP7-C02-8	0.868 -	0.851 -	0.868 -	0.851 -	9.56 -	0.0285 U	2.2 U	0.0328 U	1.76 U	1.09 J
A6-SP7-C02-9	0.894 -	0.91 -	0.92 -	0.91 -	6.66 -	0.0492 U	6.94 U	0.0406 U	1.93 U	0.863 J
A6-SP7-C02-9-D	0.941 -	0.873 -	0.884 -	0.873 -	4.81 -	0.0463 U	4.69 U	0.109 U	1.86 U	0.655 J
A6-SP7-C02-11	0.935 -	0.928 -	0.912 -	0.928 -	9.57 -	0.0447 U	4.56 U	0.142 U	1.94 U	0.991 J
A6-SP7-C02-12	0.7 -	0.762 -	0.764 -	0.762 -	10.2 -	0.0421 U	3.81 U	0.0985 U	1.82 U	1.35 J
A6-SP7-C02-13	0.806 -	0.59 -	0.562 -	0.59 -	20.5 -	0.039 U	4.54 U	0.171 U	2.02 U	0.921 -
A6-SP7-C02-14	0.825 -	0.831 -	0.835 -	0.831 -	7.97 -	0.0507 U	4.71 U	0.169 U	2.15 U	1.46 -
A6-SP7-C02-16	0.795 -	0.789 -	0.795 -	0.789 -	5.94 -	0.0411 U	3.95 U	0.101 U	1.95 U	0.92 J
A6SP7-DP-PC-2 •	--	--	--	--	--	--	--	--	--	--
A6SP7-DP-PC-5 *	--	--	--	--	--	--	--	0.246 U	--	--
A6SP7-DP-PC-6 •	--	--	--	--	--	--	--	--	--	--
A6SP7-DP-PC-11 *	1.65867	1.66 -	1.65 -	1.66 -	--	0.171 -	1.57 J	--	2.1 J	3.82 -
A7SP7-DP-PC-18 •	--	--	--	--	161 J	--	--	--	--	--
Limit	1.7	1.8	1.7	1.5	82	1.4	38	3.2	30	280
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%
Max. Result	1.65867	1.66	1.65	1.66	161	0.171	1.57	0.246 U	2.1	3.82
Max. >= Limit	No	No	No	Yes	Yes	No	No	No	No	No
W-statistic Prob. #	--	--	--	14.5% (LN)	< 0.01% (LN)	--	--	--	--	--
Test Procedure	--	--	--	Lognormal	Median (Sign)	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	11	11	12	11	0
% Nondetects	0%	0%	0%	0%	0%	92%	92%	100%	92%	0%
Est. Mean*	--	--	--	0.933	8.765	--	--	--	--	--
UCL	--	--	--	1.071	17.400	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	pass	Pass	--	--	--	--	--
a posteriori Sample	--	--	--	3	7	--	--	--	--	--
Size calculation	--	--	--	Pass	Pass	--	--	--	--	--

• Highest post-excavation result from the Dump Pit in sub-CU A6-SP7-C02-3.

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Lead	Mercury	Molybdenum	Selenium	Silver	Benzo(a)pyrene
A6-SP7-C02-2	0.448 UJ	6.2 J	66.8 J	0.56 -	0.112 U	14.9 J	6.7 J	0.014 J	0.77 J	0.83 J	0.112 U	38.8 U
A6-SP7-C02-3	2.36 UJ	8.1 J	232 J	1.1 -	0.59 U	27.8 J	16.9 J	0.025 J	0.53 J	3.54 U	0.118 U	41.1 U
A6-SP7-C02-4	2.24 UJ	6.6 J	105 J	0.5 -	0.56 U	20.9 J	12.6 J	0.027 J	1.3 J	3.36 U	0.112 U	39.2 U
A6-SP7-C02-5	0.439 UJ	6.4 J	95.1 J	0.61 -	0.48 J	19.5 J	14 J	0.017 J	1.3 J	0.658 U	0.11 U	38.1 U
A6-SP7-C02-6	2.24 UJ	5.7 J	95.3 J	0.67 -	0.561 U	20.1 J	14.7 J	0.02 J	0.68 J	3.37 U	0.112 U	39.3 U
A6-SP7-C02-8	0.62 J	7.7 J	101 J	0.62 -	0.47 J	20.4 J	11.2 J	0.025 J	1.1 J	0.659 U	0.11 U	37 U
A6-SP7-C02-9	0.99 J	6.1 J	100 J	0.66 -	0.53 J	21.6 J	18.6 J	0.021 J	1.1 J	0.661 U	0.11 U	38.4 U
A6-SP7-C02-9-D	0.448 UJ	4.9 J	83.8 J	0.55 -	0.48 J	19.9 J	9 J	0.015 J	0.96 J	0.673 U	0.112 U	37.6 U
A6-SP7-C02-11	2.16 UJ	7.9 J	118 J	0.53 -	0.54 U	22.9 J	12.8 J	0.018 J	1.4 J	3.24 U	0.108 U	37.8 U
A6-SP7-C02-12	0.428 UJ	7.9 J	82.7 J	0.45 -	0.36 J	14.6 J	9.2 J	0.014 J	0.63 J	0.642 U	0.107 U	36.2 U
A6-SP7-C02-13	0.74 J	6.1 J	40.8 J	0.53 -	0.111 U	10.4 J	7.6 J	0.018 J	1.3 J	0.83 J	0.111 U	37.5 U
A6-SP7-C02-14	2.25 UJ	5.2 J	82.5 J	0.7 -	0.563 U	20 J	10 J	0.011 J	0.94 J	3.38 U	0.113 U	37.7 U
A6-SP7-C02-16	0.53 J	6.1 J	85.6 J	0.52 -	0.51 J	18.4 J	11.3 J	0.019 J	1.5 J	0.697 U	0.116 U	39.7 U
A6SP7-DP-PC-2 *	--	--	--	--	--	--	16.7 J	--	--	0.61 J	--	--
A6SP7-DP-PC-5 *	--	--	125 J	--	--	--	--	--	--	--	--	--
A6SP7-DP-PC-6 *	--	10.4 -	--	0.81 -	0.34 J	28.6 J	--	--	--	--	0.1 J	298 -
A6SP7-DP-PC-11 *	--	--	--	--	--	--	--	0.078 J	--	--	--	--
A7SP7-DP-PC-18 *	--	--	--	--	--	--	--	--	--	--	--	--
Limit	96	12	68000	1.5	82	300	400	7.5	2900	5400	29000	2000
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	0 .99	10.4	232	1.1	0.53	28.6	18.6	0.078	1.5	0.83	0.1	298
Max. >= Limit	No	No	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12	12	12
Nondetects	8	0	0	0	6	0	0	0	0	9	11	11
% Nondetects	67%	0%	0%	0%	50%	0%	0%	0%	0%	75%	92%	92%
Est. Mean*	--	--	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--	--	--
a posteriori Sample		--	--	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--	--	--	--

* Highest post-excavation result from the Dump Pit in sub-CU A6-SP7-C02-3.

Sample ID	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Aroclor-1254	Aroclor-1260	Dieldrin	1,1,1-Trichloroethane
A6-SP7-C02-2	38.8 U	38.8 U	38.8 U	3.9 U	3.9 U	1.6 U	1 U
A6-SP7-C02-3	41.1 U	41.1 U	41.1 U	4.1 U	4.1 U	1.6 U	1 U
A6-SP7-C02-4	39.2 U	39.2 U	39.2 U	3.9 U	3.9 U	1.6 U	1.3 U
A6-SP7-C02-5	45.7 J	38.1 U	38.1 U	3.8 U	3.8 U	1.5 U	1 U
A6-SP7-C02-6	39.3 U	39.3 U	39.3 U	3.9 U	3.9 U	1.6 U	1.1 U
A6-SP7-C02-8	37 U	37 U	37 U	3.7 U	3.7 U	1.5 U	0.9 U
A6-SP7-C02-9	38.4 U	38.4 U	38.4 U	7 J	3.8 U	1.5 U	1.1 U
A6-SP7-C02-9-D	37.6 U	37.6 U	37.6 U	3.8 U	3.8 U	1.5 U	1.4 U
A6-SP7-C02-11	37.8 U	37.8 U	37.8 U	3.8 U	3.8 U	1.5 U	0.9 U
A6-SP7-C02-12	36.2 U	36.2 U	36.2 U	8.2 J	3.6 U	1.5 U	0.9 U
A6-SP7-C02-13	37.5 U	37.5 U	37.5 U	3.8 U	3.8 U	1.5 U	1 U
A6-SP7-C02-14	37.7 U	37.7 U	37.7 U	3.8 U	3.8 U	1.5 U	1 U
A6-SP7-C02-16	39.7 U	39.7 U	39.7 U	4 U	4 U	1.6 U	1.1 U
A6SP7-DP-PC-2 •	--	--	--	--	--	--	1.3 U
A6SP7-DP-PC-5 •	--	--	--	--	--	--	--
A6SP7-DP-PC-6 •	524 -	40.9 U	178 -	--	--	--	--
A6SP7-DP-PC-11 *	--	--	--	22.4 -	6.2 J	1.6 U	--
A7SP7-DP-PC-18 •	--	--	--	--	--	--	--
Limit	20000	2000	20000	130	130	15	4300
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%
Max. Result	524	41.1 U	178	22.4	6.2	1.6 U	1.4 U
Max. >= Limit	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12
Nondetects	10	0	11	9	11	12	12
% Nondetects	83%	0%	92%	75%	92%	100%	100%
Est. Mean*	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--

• Highest post-excavation result from the Dump Pit in sub-CU A6-SP7-C02-3.

Sample ID	1,1-Dichloroethene	1,2-Dichloroethene (Total)	Bromodichloromethane	Methylene chloride	Tetrachloroethene	Toluene	Trichloroethene
A6-SP7-C02-2	1 U	1 U	1 U	4.8 U	1 U	1 U	1 U
A6-SP7-C02-3	1 U	1 U	1 U	5 U	1 U	1 U	1 U
A6-SP7-C02-4	1.3 U	1.3 U	1.3 U	6.3 U	1.3 U	1.3 U	1.3 U
A6-SP7-C02-5	1 U	1 U	1 U	4.9 U	1 U	1 U	1 U
A6-SP7-C02-6	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U	1.1 U	1.1 U
A6-SP7-C02-8	0.9 U	0.9 U	0.9 U	4.6 U	0.9 U	0.9 U	0.9 U
A6-SP7-C02-9	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U
A6-SP7-C02-9-D	1.4 U	1.4 U	1.4 U	6.8 U	1.4 U	1.4 U	1.4 U
A6-SP7-C02-11	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
A6-SP7-C02-12	0.9 U	0.9 U	0.9 U	4.6 U	0.9 U	0.9 U	0.9 U
A6-SP7-C02-13	1 U	1 U	1 U	5 U	1 U	1 U	1 U
A6-SP7-C02-14	1 U	1 U	1 U	5.2 U	1 U	1 U	1 U
A6-SP7-C02-16	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U	1.1 U	1.1 U
A6SP7-DP-PC-2 •	--	1.3 U	1.3 U	6.4 U	1.3 U	1.3 U	1.3 U
A6SP7-DP-PC-5 *	--	--	--	--	--	--	--
A6SP7-DP-PC-6 •	1.9 J	--	--	--	--	--	--
A6SP7-DP-PC-11 *	--	--	--	--	--	--	--
A7SP7-DP-PC-18 •	--	--	--	--	--	--	--
Limit	410	160	4000	37000	3600	100000000	25000
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%
Max. Result	1.9	1.4 U	1.4 U	6.8 U	1.4 U	1.4 U	1.4 U
Max. >= Limit	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12
Nondetects	11	12	12	12	12	12	12
% Nondetects	92%	100%	100%	100%	100%	100%	100%
Est. Mean*	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--

• Highest post-excavation result from the Dump Pit in sub-CU A6-SP7-C02-3.

Sample ID	Xylenes, Total
A6-SP7-C02-2	1 U
A6-SP7-C02-3	1 U
A6-SP7-C02-4	1.3 U
A6-SP7-C02-5	1 U
A6-SP7-C02-6	1.1 U
A6-SP7-C02-8	0.9 J
A6-SP7-C02-9	1.1 U
A6-SP7-C02-9-D	1.4 U
A6-SP7-C02-11	1 J
A6-SP7-C02-12	0.9 U
A6-SP7-C02-13	1 U
A6-SP7-C02-14	1 U
A6-SP7-C02-16	1.1 U
A6SP7-DP-PC-2 *	1.3 U
A6SP7-DP-PC-5 *	--
A6SP7-DP-PC-6 *	--
A6SP7-DP-PC-11 *	--
A7SP7-DP-PC-18 *	--
Limit	920000000
Units	ug/kg
Conf. Level	90%
Max. Result	1.4 U
Max. >= Limit	No
W-statistic Prob. #	- -
Test Procedure	- -
Sample Size	12
Nondetects	10
% Nondetects	83%
Est. Mean*	- -
UCL	- -
Prob. > Limit	- -
Pass / Fail	- -

a posteriori Sample	- -
Size calculation	- -

* Highest post-excavation result from the Dump Pit in sub-CU A6-SP7-C02-3.

SAMPLEID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Lead-210	Neptunium-237	Technetium-99
A6-SP7-C03-1	1.01 -	0.961 J	1.02 J	0.961 J	25.7 J	0.0792 U	1.11 U	0.0455 U	2.69 J
A6-SP7-C03-3	1.07 -	0.975 J	1.06 J	0.975 J	16.3 J	0.0585 U	0.89 U	0.0444 U	0.801 U
A6-SP7-C03-4	0.974 -	0.778 J	0.809 J	0.778 J	23 J	0.0427 U	9.09 U	0.174 U	1.16 J
A6-SP7-C03-4-D	0.898 -	2.01 J	1.93 J	2.01 J	17.6 J	0.0448 U	11 UJ	0.0464 U	1.23 J
A6-SP7-C03-5	0.982 -	1.01 J	1.07 J	1.01 J	24.4 J	0.0671 U	1.09 U	0.0484 U	4.63 J
A6-SP7-C03-7	1.07 -	0.961 J	0.999 J	0.961 J	89.1 J	0.0366 U	8.06 U	0.156 U	3.91 J
A6-SP7-C03-8	1.17 -	1.13 J	1.05 J	1.13 J	55.8 J	0.0356 U	9.35 U	0.134 U	2.61 J
A6-SP7-C03-9	1.16 -	1.28 J	1.31 J	1.28 J	61.2 J	0.0798 U	1.27 U	0.164 U	2.3 J
A6-SP7-C03-10	1.2 -	1.16 J	1.26 J	1.16 J	48.9 J	0.0625 U	0.982 U	0.129 U	2.78 J
A6-SP7-C03-11	1.27 -	0.993 J	0.98 J	0.993 J	11.6 J	0.035 U	8.5 U	0.218 U	0.888 U
A6-SP7-C03-14	1.08 -	1.09 J	1.1 J	1.09 J	53.1 J	0.0406 U	8.24 U	0.189 U	3.49 J
A6-SP7-C03-15	1.56 -	0.932 J	0.932 J	0.932 J	--	0.0435 U	10 UJ	0.0366 U	10.9 J
A6-SP7-C03-16	0.877 -	0.865 J	0.894 J	0.865 J	16.2 J	0.0574 U	0.885 U	0.121 U	0.798 U
A6-SP7-C03-17 *	--	--	--	--	8.02 J	--	--	--	--
A6-SP7-C03-18 *	--	--	--	--	2.29 J	--	--	--	--
Limit	1.7	1.8	1.7	1.5	82	1.4	38	3.2	30
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	pCi/g	pCi/g	pCi/g
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%
Max. Result	1.56	2.01	1.93	2.01	89.1	0.0798 U	11 UJ	0.218 U	10.9
Max. >= Limit	No	Yes	Yes	Yes	Yes	No	No	No	No
W-statistic Prob. #	--	< 0.01% (LN)	1.0% (LN)	< 0.01% (LN)	64.1% (LN)	--	--	--	--
Test Procedure	--	Median (Sign)	Median (Sign)	Median (Sign)	Lognormal	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	12	12	12	3
% Nondetects	0%	0%	0%	0%	0%	100%	100%	100%	25%
Est. Mean*	--	1.002	1.055	1.002	37.597	--	--	--	--
UCL	--	1.160	1.260	1.160	65.848	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	--	Pass	Pass	Pass	pass	--	--	--	--

a posteriori Sample	--	7	7	7	5	--	--	--	--
Size calculation	--	Pass	Pass	Pass	Pass	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C03-15

SAMPLEID	Thorium-230	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Lead	Mercury	Molybdenum	Selenium	Silver
A6-SP7-C03-1	2.66 J	0.766 U	7.89 J	121 J	0.816 -	0.249 J	13.6 J	17.2 J	0.0237 U	1.23 J	2.13 U	0.157 U
A6-SP7-C03-3	1.47 J	0.495 U	5.07 J	88.6 J	0.537 -	0.151 J	11.3 J	9.73 J	0.007 U	1.05 J	2.12 U	0.157 U
A6-SP7-C03-4	1.51 J	0.606 U	9.84 J	82.3 J	0.546 -	0.188 J	11.4 J	17.6 J	0.0279 U	1.25 J	1.95 U	0.144 U
A6-SP7-C03-4-D	1.27 J	0.66 U	6.44 J	104 J	0.622 -	0.2 J	13.2 J	16 J	0.0142 U	1.11 J	2.02 U	0.149 U
A6-SP7-C03-5	1.23 J	0.405 U	4 J	57.5 J	0.415 -	0.196 J	9.26 J	8.35 J	0.0067 U	0.956 J	1.74 U	0.129 U
A6-SP7-C03-7	3.37 J	0.667 U	6.7 J	94.3 J	0.627 -	0.226 J	13.9 J	24.7 J	0.049 U	1.3 J	1.95 U	0.144 U
A6-SP7-C03-8	1.8 J	0.634 U	8.36 J	88.5 J	0.435 -	0.124 J	15.2 J	14.9 J	0.0207 U	1.49 J	1.95 U	0.144 U
A6-SP7-C03-9	2.35 J	0.529 U	6.29 J	72.5 J	0.535 -	0.183 J	10.5 J	16.5 J	0.0246 U	1.41 J	1.98 U	0.146 U
A6-SP7-C03-10	1.93 J	0.607 U	7.06 J	98.5 J	0.715 -	0.15 J	13.7 J	18.4 J	0.0302 U	0.921 J	2.07 U	0.153 U
A6-SP7-C03-11	1.33 J	0.52 U	4.76 J	96.1 J	0.607 -	0.135 J	9.72 J	19 J	0.0207 U	1 J	1.84 U	0.136 U
A6-SP7-C03-14	1.92 J	0.516 U	7.44 J	90 J	0.668 -	0.129 J	12 J	17 J	0.0213 U	1.33 J	1.85 U	0.137 U
A6-SP7-C03-15	3.52 J	0.704 U	8.19 J	106 J	0.601 -	0.208 J	12.7 J	21.9 J	0.0716 U	1.65 J	1.72 U	0.304 J
A6-SP7-C03-16	1.52 J	0.448 U	7.06 J	87.9 J	0.561 -	0.134 J	11.3 J	10.8 J	0.0148 U	1.15 J	1.93 U	0.142 U
A6-SP7-C03-17 •	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C03-18 *	--	--	--	--	--	--	--	--	--	--	--	--
Limit	280	96	12	68000	1.5	82	300	400	7.5	2900	5400	29000
Units	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	3.52	0.766 U	9.84	121	0.816	0.249	15.2	24.7	0.0716 U	1.65	2.13 U	0.304
Max. >= Limit	No	No	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12	12	12
Nondetects	0	12	0	0	0	0	0	0	12	0	12	11
% Nondetects	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	100%	92%
Est. Mean*	--	--	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--	--	--

a posteriori Sample		--	--	--	--	--	--	--	--	--	--	--
Size calculation		--	--	--	--	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C03-15

SAMPLEID	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Aroclor-1254	Aroclor-1260	Dieldrin
A6-SP7-C03-1	40.1 U	90.2 J	40.1 U	40.1 U	15.4 -	8.3 J	1.6 U
A6-SP7-C03-3	40.3 U	40.3 U	40.3 U	40.3 U	13.7 -	7.7 J	1.6 U
A6-SP7-C03-4	39.8 U	39.8 U	39.8 U	39.8 U	4 U	4 U	1.6 U
A6-SP7-C03-4-D	41.8 U	41.8 U	41.8 U	41.8 U	4.2 U	4.2 U	1.7 U
A6-SP7-C03-5	38.7 U	38.7 U	38.7 U	38.7 U	14.9 -	7 J	1.6 U
A6-SP7-C03-7	38.4 U	38.4 U	38.4 U	38.4 U	48.9 -	24.1 -	1.5 U
A6-SP7-C03-8	39.7 U	39.7 U	39.7 U	39.7 U	21.1 -	11.7 J	1.6 U
A6-SP7-C03-9	40.5 U	154 J	40.5 U	40.5 U	66.1 -	33.5 -	1.6 U
A6-SP7-C03-10	177 U	210 J	35.4 U	216 J	108 -	55.8 -	1.4 U
A6-SP7-C03-11	38.8 U	38.8 U	38.8 U	38.8 U	3.9 J	3.9 U	1.6 U
A6-SP7-C03-14	39.1 U	39.1 U	39.1 U	39.1 U	3.9 U	3.9 U	1.6 U
A6-SP7-C03-15	728 J	991 J	37 U	468 J	--	--	29.6 U
A6-SP7-C03-16	40.4 U	40.4 U	40.4 U	40.4 U	25.8 -	13 -	1.6 U
A6-SP7-C03-17 *	--	--	--	--	163 -	78.5 -	--
A6-SP7-C03-18 *	--	--	--	--	8.2 J	3.9 U	--
Limit	2000	20000	2000	20000	130	130	15
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%
Max. Result	728	991	41.8 U	468	163	78.5	29.6 U
Max. >= Limit	No	No	No	No	Yes	No	No
W-statistic Prob. #	--	--	--	--	55.0% (LN)	--	--
Test Procedure	--	--	--	--	Median (Sign)	--	--
Sample Size	12	12	12	12	12	12	12
Nondetects	11	8	12	10	2	3	12
% Nondetects	92%	67%	100%	83%	17%	25%	100%
Est. Mean*	--	--	--	--	18.25	--	--
UCL	--	--	--	--	48.9	--	--
Prob. > Limit	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	Pass	--	--

a posteriori Sample	--	--	--	--	5	2	--
Size calculation	--	--	--	--	Pass	Pass	--

* Newly collected data after excavation in sub-CU A6-SP7-C03-15

CU A6-SP7-C03

SAMPLEID	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethene (Total)	Bromodichloromethane	Methylene chloride	Tetrachloroethene
A6-SP7-C03-1	1.2 U	1.2 U	1.2 U	1.2 U	5.8 U	1.2 U
A6-SP7-C03-3	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U
A6-SP7-C03-4	1 U	1 U	1 U	1 U	4.8 U	1 U
A6-SP7-C03-4-D	1 U	1 U	1 U	1 U	5.2 U	1 U
A6-SP7-C03-5	0.9 U	0.9 U	0.9 U	0.9 U	4.3 U	0.9 U
A6-SP7-C03-7	0.9 U	0.9 U	0.9 U	0.9 U	4.5 U	0.9 U
A6-SP7-C03-8	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U
A6-SP7-C03-9	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	1.2 U
A6-SP7-C03-10	1 U	1 U	1 U	1 U	5.1 U	1 U
A6-SP7-C03-11	1 U	1 U	1 U	1 U	5.1 U	1 U
A6-SP7-C03-14	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U
A6-SP7-C03-15	1 U	1 U	1 U	1 U	4.8 U	1 U
A6-SP7-C03-16	1.1 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U
A6-SP7-C03-17 *	--	--	--	--	--	--
A6-SP7-C03-18 *	--	--	--	--	--	--
Limit	4300	410	160	4000	37000	3600
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%
Max. Result	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	1.2 U
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	12	12	12	12	12	12
% Nondetects	100%	100%	100%	100%	100%	100%
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C03-15

SAMPLEID	Toluene	Trichloroethene	Xylenes, Total
A6-SP7-C03-1	1.2 U	1.2 U	1.2 U
A6-SP7-C03-3	1.1 U	1.1 U	1.1 U
A6-SP7-C03-4	1 U	1 U	1 U
A6-SP7-C03-4-D	1 U	1 U	1 U
A6-SP7-C03-5	0.9 U	0.9 U	0.9 U
A6-SP7-C03-7	0.9 U	0.9 U	0.9 U
A6-SP7-C03-8	1.1 U	1.1 U	1.1 U
A6-SP7-C03-9	1.2 U	1.2 U	1.2 U
A6-SP7-C03-10	1 U	1 U	1 U
A6-SP7-C03-11	1 U	1 U	1 U
A6-SP7-C03-14	1.1 U	1.1 U	1.1 U
A6-SP7-C03-15	1 U	1 U	1 U
A6-SP7-C03-16	1.1 U	1.1 U	1.1 U
A6-SP7-C03-17 *	--	--	--
A6-SP7-C03-18 *	--	--	--
Limit	100000000	25000	920000000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	1.2 U	1.2 U	1.2 U
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	12	12	12
% Nondetects	100%	100%	100%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C03-15

SAMPLEID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Lead-210	Neptunium-237	Technetium-99	Thorium-230	Antimony	Arsenic	Barium
A6-SP7-C04-1	0.977 J	0.983 -	0.998 -	0.983 -	17.8 -	0.0497 U	0.727 U	0.122 U	0.775 U	1.45 J	0.395 U	7.34 -	90.2 J
A6-SP7-C04-2	1.09 J	0.88 -	0.927 -	0.88 -	2.96 U	0.062 U	5.57 U	0.0295 U	0.889 U	1.01 J	0.439 U	7.59 -	93.1 J
A6-SP7-C04-3	0.972 J	1.25 -	1.23 -	1.25 -	61.9 -	0.0802 U	7.73 U	0.0302 U	5.6 J	2.28 -	0.491 U	7.08 -	73.3 J
A6-SP7-C04-5	1.35 J	1.18 -	1.19 -	1.18 -	80.1 -	0.0746 U	7.61 U	0.12 U	13.4 J	4.7 -	0.961 U	6.56 -	66.6 J
A6-SP7-C04-6	1.42 J	1.38 -	1.4 -	1.38 -	53.8 -	0.0775 U	7.81 U	0.0811 U	15.3 J	2.74 -	0.618 U	9.19 -	117 J
A6-SP7-C04-7	1.05 J	1.15 -	1.17 -	1.15 -	87.2 -	0.0539 U	7.6 U	0.105 U	23.7 J	5.26 -	0.652 U	5.61 -	64.8 J
A6-SP7-C04-9	1.15 J	1.14 -	1.16 -	1.14 -	--	0.0584 U	7.98 U	0.0802 U	5.44 J	2.51 -	0.527 U	9.22 -	111 J
A6-SP7-C04-11	1.03 J	1.08 -	1.09 -	1.08 -	74.8 -	0.0613 U	7.73 U	0.159 U	5.47 J	2.49 -	0.628 U	6.16 -	79.2 J
A6-SP7-C04-12	1.05 J	0.891 -	0.927 -	0.891 -	--	0.0503 U	7 U	0.103 U	3.21 J	2.63 -	0.74 U	6.12 -	92.4 J
A6-SP7-C04-13	0.914 J	1.12 -	1.14 -	1.12 -	--	0.1 J	7.41 U	0.0809 U	6.01 J	3.63 -	0.468 U	6.87 -	70 J
A6-SP7-C04-13-D	1.07 J	1.14 -	1.12 -	1.14 -	--	0.191 J	7.93 U	0.0335 J	14.9 J	4.24 -	1.43 U	5.88 -	95.9 J
A6-SP7-C04-14	1.32 J	1.2 -	1.21 -	1.2 -	56.6 -	0.0475 U	6.64 U	0.0737 U	9.15 J	2.32 -	0.473 U	6.44 -	84.8 J
A6-SP7-C04-16	1.42 J	1.15 -	1.15 -	1.15 -	7.56 -	0.0389 U	7.54 U	0.106 U	0.884 U	1.59 -	0.518 U	12.1 -	209 J
A6-SP7-C04-17 **	--	--	--	--	61.3 -	--	--	--	--	--	--	--	--
A6-SP7-C04-19 ***	--	--	--	--	21.4 -	--	--	--	--	--	--	--	--
A6-SP7-C04-21 *	--	--	--	--	2.95 J	--	--	--	--	--	--	--	--
A6-SP7-C04-22 **	--	--	--	--	65.8 -	--	--	--	--	--	--	--	--
A6-SP7-C04-23 *	--	--	--	--	12.9 J	--	--	--	--	--	--	--	--
A6-SP7-C04-24 *	--	--	--	--	121 J	--	--	--	--	--	--	--	--
A6-SP7-C04-25 ***	--	--	--	--	1.12 J	--	--	--	--	--	--	--	--
A6-SP7-C04-26 ***	--	--	--	--	2.27 J	--	--	--	--	--	--	--	--
A6-SP7-C04-27 *	--	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-28 *	--	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-29 *	--	--	--	--	--	--	--	--	--	--	--	--	--
Limit	1.7	1.8	1.7	1.5	82	1.4	38	3.2	30	280	96	12	68000
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	1.42	1.38	1.4	1.38	121	0.191	7.98 U	0.0335	23.7	5.26	1.43 U	12.1	209
Max. >= Limit	No	No	No	No	Yes	No	No	No	No	No	No	Yes	No
W-statistic Prob. #	--	--	--	--	62.0% (N)	--	--	--	--	--	--	23.1% (LN)	--
Test Procedure	--	--	--	--	Normal	--	--	--	--	--	--	Lognormal	--
Sample Size	12	12	12	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	1	11	12	11	3	0	12	0	0
% Nondetects	0%	0%	0%	0%	8%	92%	100%	92%	25%	0%	100%	0%	0%
Est. Mean*	--	--	--	--	54.12	--	--	--	--	--	--	7.527	--
UCL	--	--	--	--	72.75	--	--	--	--	--	--	8.248	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	pass	--	--	--	--	--	--	pass	--

a posteriori Sample	--	--	--	--	12	--	--	--	--	--	--	2	--
Size calculation	--	--	--	--	Pass	--	--	--	--	--	--	Pass	--

* Newly collected data after excavation in sub-CU A6-SP7-C04-9.
** Newly collected data after excavation in sub-CU A6-SP7-C04-12.
*** Newly collected data after excavation in sub-CU A6-SP7-C04-13.

SAMPLEID	Beryllium	Cadmium	Chromium	Lead	Mercury	Molybdenum	Selenium	Silver	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene
A6-SP7-C04-1	0.593 -	0.184 J	12.4 J	12.9 J	0.019 U	1.23 J	1.69 U	0.125 U	37.1 U	37.1 U	37.1 U	37.1 U
A6-SP7-C04-2	0.652 -	0.0883 J	14.8 J	14.1 J	0.0144 U	0.861 J	1.89 U	0.139 U	37.5 U	37.5 U	37.5 U	37.5 U
A6-SP7-C04-3	0.624 -	0.258 J	13 J	11.8 J	0.0198 U	1.16 J	2.11 U	0.156 U	39.2 U	39.2 U	39.2 U	39.2 U
A6-SP7-C04-5	0.524 -	0.209 J	14.2 J	17.8 J	0.0444 U	1.43 J	1.62 U	0.12 U	37.2 U	37.2 U	37.2 U	37.2 U
A6-SP7-C04-6	0.727 -	0.186 J	15 J	14.9 J	0.0253 U	1.27 J	1.77 U	0.131 U	37.4 U	37.4 U	37.4 U	37.4 U
A6-SP7-C04-7	0.447 -	0.216 J	13.8 J	17.6 J	0.107 J	1.38 J	1.96 U	0.29 J	38.2 U	38.2 U	38.2 U	38.2 U
A6-SP7-C04-9	0.605 -	0.257 J	12.8 J	15.6 J	0.0255 U	1.54 J	1.51 U	0.111 U	164 J	188 J	36.7 U	123 J
A6-SP7-C04-11	0.507 -	0.186 J	11.2 J	70.6 -	0.0354 U	1.48 J	2.03 U	0.15 U	211 -	269 J	38.7 U	155 J
A6-SP7-C04-12	0.593 -	0.229 J	12.3 J	25.9 J	0.0531 U	1.22 J	1.85 U	0.137 U	297 -	425 J	37.3 U	175 J
A6-SP7-C04-13	0.514 -	0.145 J	11.7 J	12.4 J	0.0077 U	1.36 J	1.98 U	0.146 U	38.9 U	166 J	38.9 U	38.9 U
A6-SP7-C04-13-D	0.608 -	0.22 J	13.3 J	23.3 J	0.035 U	1.32 J	2.05 U	0.152 U	151 J	38.2 U	38.2 U	38.2 U
A6-SP7-C04-14	0.522 -	0.245 J	12.2 J	16.2 J	0.0143 U	0.982 J	1.88 U	0.139 U	197 J	269 J	36.2 U	139 J
A6-SP7-C04-16	1.49 -	0.278 J	20 J	17.1 J	0.0275 U	1.32 J	2.23 U	0.165 U	40.9 U	40.9 U	40.9 U	40.9 U
A6-SP7-C04-17 **	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-19 ***	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-21 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-22 **	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-23 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-24 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-25 ***	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-26 ***	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-27 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-28 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C04-29 *	--	--	--	--	--	--	--	--	--	--	--	--
Limit	1.5	82	300	400	7.5	2900	5400	29000	2000	20000	2000	20000
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	1.49	0.278	20	70.6	0.107	1.54	2.23 U	0.29	297	425	40.9 U	175
Max. >= Limit	No	No	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	11	0	12	11	7	7	12	8
% Nondetects	0%	0%	0%	0%	92%	0%	100%	92%	58%	58%	100%	67%
Est. Mean*	--	--	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--	--	--
a posteriori Sample	--	--	--	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C04-9.
** Newly collected data after excavation in sub-CU A6-SP7-C04-12.
*** Newly collected data after excavation in sub-CU A6-SP7-C04-13.

SAMPLEID	Aroclor-1254	Aroclor-1260	Dieldrin	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethene (Total)	Bromodichloromethane	Methylene chloride	Tetrachloroethene
A6-SP7-C04-1	3.7 U	3.7 U	1.5 U	1.1 U	2.6 J	1.1 U	1.1 U	5.4 U	1.1 U
A6-SP7-C04-2	3.8 U	3.8 U	1.5 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U
A6-SP7-C04-3	27.7 -	15.6 -	1.6 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U
A6-SP7-C04-5	170 -	90.8 -	1.5 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U
A6-SP7-C04-6	25.5 -	13.6 -	1.5 U	1 U	1 U	1 U	1 U	4.9 U	1 U
A6-SP7-C04-7	12.4 J	3.8 U	1.5 U	1 U	1 U	1 U	1 U	4.9 U	1 U
A6-SP7-C04-9	40 -	20.7 -	1.5 U	1 U	1 U	1 U	1 U	4.8 U	1 U
A6-SP7-C04-11	60.5 -	22.4 -	1.6 U	1 U	1 U	1 U	1 U	4.9 U	1 U
A6-SP7-C04-12	--	198 -	1.5 U	1.1 U	1.1 U	1.1 U	1.1 U	5.2 U	1.1 U
A6-SP7-C04-13	7.1 J	3.9 UJ	1.6 U	1 U	1 U	1 U	1 U	5 U	1 U
A6-SP7-C04-13-D	51.9 J	25.4 J	1.5 U	0.9 U	0.9 U	0.9 U	0.9 U	4.8 U	0.9 U
A6-SP7-C04-14	67.9 -	35 -	1.5 U	1 U	1 U	1 U	1 U	5.2 U	1 U
A6-SP7-C04-16	4.8 J	4.1 U	1.6 U	1.1 U	1.2 J	1.1 U	1.1 U	5.6 U	1.1 U
A6-SP7-C04-17 **	--	--	--	--	--	--	--	--	--
A6-SP7-C04-19 ***	--	--	--	--	--	--	--	--	--
A6-SP7-C04-21 *	--	--	--	--	--	--	--	--	--
A6-SP7-C04-22 **	--	--	--	--	--	--	--	--	--
A6-SP7-C04-23 *	--	--	--	--	--	--	--	--	--
A6-SP7-C04-24 *	--	--	--	--	--	--	--	--	--
A6-SP7-C04-25 ***	--	--	--	--	--	--	--	--	--
A6-SP7-C04-26 ***	--	--	--	--	--	--	--	--	--
A6-SP7-C04-27 *	164 -	--	--	--	--	--	--	--	--
A6-SP7-C04-28 *	95.2 -	--	--	--	--	--	--	--	--
A6-SP7-C04-29 *	25.4 -	--	--	--	--	--	--	--	--
Limit	130	130	15	4300	410	160	4000	37000	3600
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	170	198	1.6 U	1.1 U	2.6	1.1 U	1.1 U	5.6 U	1.1 U
Max. >= Limit	Yes	Yes	No	No	No	No	No	No	No
W-statistic Prob. #	30.1% (LN)	16.9% (LN)	--	--	--	--	--	--	--
Test Procedure	Median (Sign)	Median (Sign)	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	2	4	12	12	10	12	12	12	12
% Nondetects	17%	33%	100%	100%	83%	100%	100%	100%	100%
Est. Mean*	33.85	18.150	--	--	--	--	--	--	--
UCL	60.5	25.400	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	Pass	Pass	--	--	--	--	--	--	--
a posteriori Sample Size calculation	9 Pass	5 Pass	-- --	-- --	-- --	-- --	-- --	-- --	-- --

* Newly collected data after excavation in sub-CU A6-SP7-C04-9.
** Newly collected data after excavation in sub-CU A6-SP7-C04-12.
*** Newly collected data after excavation in sub-CU A6-SP7-C04-13.

SAMPLEID	Toluene	Trichloroethene	Xylenes, Total
A6-SP7-C04-1	1.1 U	1.1 U	1.4 J
A6-SP7-C04-2	1.1 U	1.1 U	1.1 U
A6-SP7-C04-3	1.1 U	1.1 U	1.1 U
A6-SP7-C04-5	1.1 U	1.1 U	1.1 U
A6-SP7-C04-6	1 U	1 U	1.1 J
A6-SP7-C04-7	1 U	1 U	1 U
A6-SP7-C04-9	1.5 J	1 U	1 U
A6-SP7-C04-11	1 U	1 U	1 U
A6-SP7-C04-12	1.1 U	1.1 U	1.1 U
A6-SP7-C04-13	1 U	1 U	1 U
A6-SP7-C04-13-D	0.9 U	0.9 U	0.9 U
A6-SP7-C04-14	1 U	1 U	1.5 J
A6-SP7-C04-16	1.1 U	1.1 U	1.1 U
A6-SP7-C04-17 **	--	--	--
A6-SP7-C04-19 ***	--	--	--
A6-SP7-C04-21 *	--	--	--
A6-SP7-C04-22 **	--	--	--
A6-SP7-C04-23 *	--	--	--
A6-SP7-C04-24 *	--	--	--
A6-SP7-C04-25 ***	--	--	--
A6-SP7-C04-26 ***	--	--	--
A6-SP7-C04-27 *	--	--	--
A6-SP7-C04-28 *	--	--	--
A6-SP7-C04-29 *	--	--	--
Limit	100000000	25000	920000000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	1.5	1.1 U	1.5
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	11	12	9
% Nondetects	92%	100%	75%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C04-9.
** Newly collected data after excavation in sub-CU A6-SP7-C04-12.
*** Newly collected data after excavation in sub-CU A6-SP7-C04-13.

SAMPLEID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Lead-210	Neptunium-237	Technetium-99
A6-SP7-C05-1	0.971 J	0.679 J	0.683 -	0.679 J	17.5 -	0.039 U	9.09 U	0.0391 J	0.93 U
A6-SP7-C05-3	1.14 J	1.17 J	1.28 -	1.17 J	4.89 J	0.507 U	0.82 -	0.0518 U	0.911 U
A6-SP7-C05-3-D	1.26 J	1.02 J	0.966 -	1.02 J	3.98 -	0.035 U	8.79 U	0.142 U	0.973 U
A6-SP7-C05-4	--	--	--	--	--	0.819 -	9.16 U	0.0664 U	2.06 U
A6-SP7-C05-5	0.979 J	0.9 J	0.973 -	0.9 J	11.1 -	0.056 U	0.832 U	0.0624 J	0.826 U
A6-SP7-C05-6	1.33 J	0.869 J	0.812 -	0.869 J	18.4 -	0.0789 -	7.85 U	0.0354 U	0.862 U
A6-SP7-C05-8	0.865 J	0.688 J	0.667 -	0.688 J	8.98 -	0.03 U	5.84 U	0.129 U	0.897 U
A6-SP7-C05-9	1.06 J	0.819 J	0.827 -	0.819 J	26.7 -	0.038 U	8.88 U	0.104 U	1.13 J
A6-SP7-C05-10	1 J	0.87 J	0.931 -	0.87 J	8.74 -	0.051 U	0.755 U	0.112 U	0.849 U
A6-SP7-C05-12	1.07 -	0.961 -	0.944 -	0.961 -	49.2 -	0.0502 U	6.27 U	0.0836 U	2.06 U
A6-SP7-C05-13	0.951 J	0.787 J	0.816 -	0.787 J	11.3 J	0.056 U	0.792 U	0.0334 U	0.799 U
A6-SP7-C05-15	0.887 J	0.619 J	0.599 -	0.619 J	12.6 -	0.037 U	6.47 U	0.109 U	0.892 U
A6-SP7-C05-16	0.996 -	0.992 -	1.07 -	0.992 -	14.3 -	0.053 J	4.74 U	0.0412 U	2.71 -
A6-SP7-C05-17 •	1.18 -	1.06 -	1.01 -	1.06 -	21.1 -	--	--	--	--
A6-SP7-C05-18 •	0.859 -	0.763 -	0.766 -	0.763 -	6.09 -	--	--	--	--
Limit	1.7	1.8	1.7	1.5	82	1.4	38	3.2	30
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	pCi/g	pCi/g	pCi/g
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%
Max. Result	1.33	1.17	1.28	1.17	49.2	0.819	0.82	0.0624	2.71
Max. >= Limit	No	No	No	Yes	Yes	No	No	No	No
W-statistic Prob. #	--	--	--	51.8% (LN)	16.3% (LN)	--	--	--	--
Test Procedure	--	--	--	Lognormal	Lognormal	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	9	11	10	10
% Nondetects	0%	0%	0%	0%	0%	75%	92%	83%	83%
Est. Mean*	--	--	--	0.93	25.5	--	--	--	--
UCL	--	--	--	1.07	50.0	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	pass	pass	--	--	--	--

a posteriori Sample	--	--	--	3	4	--	--	--	--
Size calculation	--	--	--	Pass	Pass	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C05-4.

SAMPLEID	Thorium-230	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Lead	Mercury	Molybdenum	Selenium	Silver
A6-SP7-C05-1	1.57 -	0.479 U	6.83 -	82.6 J	0.52 -	0.146 J	11.5 J	13.4 J	0.0195 U	0.971 J	2.01 U	0.149 U
A6-SP7-C05-3	1.2 J	0.501 U	4 -	64.6 J	0.626 -	0.221 J	14 J	14.3 J	0.0262 U	0.733 J	2.15 U	0.159 U
A6-SP7-C05-3-D	1.34 -	0.413 U	2.86 -	49.7 J	0.501 -	0.116 J	12.2 J	13.6 J	0.0265 U	0.457 J	1.78 U	0.131 U
A6-SP7-C05-4	2.97 -	1.1 J	10.3 J	97.6 J	0.63 -	0.61 J	21.7 J	24.5 J	0.043 J	1.4 J	0.655 U	0.109 U
A6-SP7-C05-5	1.45 -	0.455 U	7.24 -	78.7 J	0.473 -	0.153 J	11 J	13.1 J	0.0165 U	1.28 J	1.96 U	0.145 U
A6-SP7-C05-6	1.89 -	0.765 U	6.71 -	74.3 J	0.536 -	0.138 J	12.1 J	13.8 J	0.0137 U	1.2 J	1.99 U	0.147 U
A6-SP7-C05-8	1.31 -	0.427 U	5.46 -	58.6 J	0.402 -	0.158 J	10.3 J	11.2 J	0.0129 U	1.44 J	1.83 U	0.136 U
A6-SP7-C05-9	1.78 -	0.466 U	7.38 -	70.5 J	0.448 -	0.124 J	11.6 J	14.6 J	0.0235 U	1.32 J	2 U	0.148 U
A6-SP7-C05-10	1.1 J	0.46 U	6.86 -	69.6 J	0.436 -	0.141 J	11.8 J	11.8 J	0.0183 U	1.14 J	1.98 U	0.191 J
A6-SP7-C05-12	2.33 -	0.428 UJ	4.9 J	70 J	0.36 -	0.38 J	12.8 J	10.4 J	0.014 J	1.6 J	0.642 U	0.107 U
A6-SP7-C05-13	1.19 J	0.516 U	8.51 -	78.6 J	0.525 -	0.169 J	18.1 J	40.9 -	0.0199 U	1.46 J	2.22 U	0.164 U
A6-SP7-C05-15	1.43 -	0.452 U	6.31 -	67.9 J	0.418 -	0.155 J	11.4 J	12.5 J	0.0247 U	1.36 J	1.94 U	0.143 U
A6-SP7-C05-16	1.43 J	0.449 UJ	8.4 J	98.4 J	0.64 -	0.55 J	19.1 J	12.8 J	0.023 J	1.1 J	0.674 U	0.112 U
A6-SP7-C05-17 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C05-18 *	--	--	--	--	--	--	--	--	--	--	--	--
Limit	280	96	12	68000	1.5	82	300	400	7.5	2900	5400	29000
Units	pCi/g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	2.97	1.1	10.3	98.4	0.64	0.61	21.7	40.9	0.043	1.6	2.22 U	0.191
Max. >= Limit	No	No	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12	12	12	12
Nondetects	0	11	0	0	0	0	0	0	9	0	12	11
% Nondetects	0%	92%	0%	0%	0%	0%	0%	0%	75%	0%	100%	92%
Est. Mean*	--	--	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--	--	--

a posteriori Sample		--	--	--	--	--	--	--	--	--	--	--
Size calculation		--	--	--	--	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C05-4.

SAMPLEID	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Aroclor-1254	Aroclor-1260	Dieldrin
A6-SP7-C05-1	39.4 U	39.4 U	39.4 U	39.4 U	9.7 J	6.4 J	1.6 U
A6-SP7-C05-3	39.3 U	39.3 U	39.3 U	39.3 U	3.9 U	3.9 U	1.6 U
A6-SP7-C05-3-D	39.7 U	39.7 U	39.7 U	39.7 U	4 U	4 U	1.6 U
A6-SP7-C05-4	566 -	900 J	36.7 U	441 J	26.3 J	26.5 -	1.5 U
A6-SP7-C05-5	90.7 J	124 J	39.5 U	52.4 J	5.4 J	4 U	1.6 U
A6-SP7-C05-6	37.3 U	37.3 U	37.3 U	37.3 U	17.9 -	9.3 J	1.5 U
A6-SP7-C05-8	37.4 U	37.4 U	37.4 U	37.4 U	6.9 J	3.7 U	1.5 U
A6-SP7-C05-9	155 J	258 J	37.9 U	118 J	32.6 -	18.8 -	1.5 U
A6-SP7-C05-10	39.7 U	39.7 U	39.7 U	39.7 U	4 U	4 U	1.6 U
A6-SP7-C05-12	57.7 J	97.1 J	35.8 U	48.1 J	44.5 -	23.3 -	1.4 U
A6-SP7-C05-13	44.7 U	44.7 U	44.7 U	44.7 U	48.8 -	19 -	1.8 U
A6-SP7-C05-15	74.6 J	121 J	36 U	48.5 J	42.2 -	28.6 -	1.4 U
A6-SP7-C05-16	38 U	46 J	38 U	38 U	22.9 -	13.6 -	1.5 U
A6-SP7-C05-17 *	--	--	--	--	--	--	--
A6-SP7-C05-18 *	--	--	--	--	--	--	--
Limit	2000	20000	2000	20000	130	130	15
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%
Max. Result	566	900	44.7 U	441	48.8	28.6	1.8 U
Max. >= Limit	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12
Nondetects	7	6	12	7	2	4	12
% Nondetects	58%	50%	100%	58%	17%	33%	100%
Est. Mean*	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C05-4.

SAMPLEID	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethene (Total)	Bromodichloromethane	Methylene chloride	Tetrachloroethene
A6-SP7-C05-1	0.9 U	0.9 U	0.9 U	0.9 U	4.6 U	10.8 J
A6-SP7-C05-3	1.1 U	1.1 U	1.1 U	1.1 U	5.2 U	1.1 U
A6-SP7-C05-3-D	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U
A6-SP7-C05-4	1 U	1 U	1 U	1 U	5.1 U	1 U
A6-SP7-C05-5	1 U	1 U	1 U	1 U	4.9 U	1 U
A6-SP7-C05-6	1.1 U	1.1 U	1.1 U	1.1 U	5.2 U	1.1 U
A6-SP7-C05-8	1.2 U	1.2 U	1.2 U	1.2 U	6 U	1.2 U
A6-SP7-C05-9	1 U	1 U	1 U	1 U	5 U	1 U
A6-SP7-C05-10	1.1 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U
A6-SP7-C05-12	0.8 U	0.8 U	0.8 U	0.8 U	4.2 U	0.8 U
A6-SP7-C05-13	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U
A6-SP7-C05-15	1 U	1 U	1 U	1 U	4.8 U	1 U
A6-SP7-C05-16	0.9 U	0.9 U	0.9 U	0.9 U	4.6 U	0.9 U
A6-SP7-C05-17 •	--	--	--	--	--	--
A6-SP7-C05-18 *	--	--	--	--	--	--
Limit	4300	410	160	4000	37000	3600
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%
Max. Result	1.2 U	1.2 U	1.2 U	1.2 U	6 U	10.8
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	12	12	12	12	12	11
% Nondetects	100%	100%	100%	100%	100%	92%
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

• Newly collected data after excavation in sub-CU A6-SP7-C05-4.

SAMPLEID	Toluene	Trichloroethene	Xylenes, Total
A6-SP7-C05-1	0.9 U	0.9 U	0.9 U
A6-SP7-C05-3	1.1 U	1.1 U	1.1 U
A6-SP7-C05-3-D	1.1 U	1.1 U	1.7 J
A6-SP7-C05-4	1 U	1 U	1 U
A6-SP7-C05-5	1 U	1 U	1 U
A6-SP7-C05-6	1.2 J	1.1 U	1.2 J
A6-SP7-C05-8	1.2 U	1.2 U	1.4 J
A6-SP7-C05-9	1 U	1 U	1 U
A6-SP7-C05-10	1.2 J	1.1 U	1.3 J
A6-SP7-C05-12	0.8 U	0.8 U	0.8 U
A6-SP7-C05-13	1.1 U	1.1 U	1.1 U
A6-SP7-C05-15	1 U	1 U	1 U
A6-SP7-C05-16	1.4 J	0.9 U	2.1 J
A6-SP7-C05-17 •	--	--	--
A6-SP7-C05-18 •	--	--	--
Limit	100000000	25000	920000000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	1.4	1.2 U	2.1
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	9	12	7
% Nondetects	75%	100%	58%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

• Newly collected data after excavation in sub-CU A6-SP7-C05-4.

SAMPLE ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Lead-210	Neptunium-237	Technetium-99	Thorium-230	Antimony	Arsenic
A6-SP7-C06-2	0.93 -	0.995 -	1.01 -	0.995 -	11.3 J	0.0368 U	3.97 U	0.0251 U	2.03 U	2.18 -	0.451 UJ	6.4 -
A6-SP7-C06-3	0.953 -	0.944 -	0.932 -	0.944 -	10.9 J	0.0418 U	3.57 U	0.0399 U	2.13 U	1.67 -	0.58 J	6.3 -
A6-SP7-C06-4	0.998 -	1.07 -	1.09 -	1.07 -	37.5 J	0.0363 U	5.14 U	0.0209 U	2.05 U	2.02 -	0.67 J	7.3 -
A6-SP7-C06-5	0.953 -	1.03 -	1.04 -	1.03 -	19 J	0.0675 J	4.68 U	0.0182 U	1.9 U	1.99 -	0.82 J	6.3 -
A6-SP7-C06-7	0.895 -	0.893 -	0.892 -	0.893 -	13.2 J	0.0349 U	4.2 U	0.0257 U	1.96 U	1.3 J	0.424 UJ	8 -
A6-SP7-C06-8	1.01 -	0.628 J	0.625 J	0.628 J	7.59 -	0.0519 U	0.814 J	0.16 U	2.06 U	0.97 -	0.57 J	7.4 -
A6-SP7-C06-9	1.26 -	1.38 -	1.34 -	1.38 -	58.2 J	0.0394 U	4.74 U	0.0282 U	2.08 U	2.13 -	0.46 J	4.6 -
A6-SP7-C06-11	0.865 -	1.11 -	1.13 -	1.11 -	17.5 J	0.0399 U	4.08 U	0.0286 U	2.12 U	1.43 -	0.6 J	5.9 -
A6-SP7-C06-12	1.29 -	1.68 -	1.91 -	1.68 -	95.6 J	0.0547 -	5.72 U	0.0297 U	1.95 U	2.78 -	0.61 J	6.1 -
A6-SP7-C06-13	1.08 -	1.29 -	1.27 -	1.29 -	36.3 J	0.0782 U	1.3 J	0.0404 U	13.9 J	2.29 -	0.66 J	10.1 -
A6-SP7-C06-13-D	0.948 -	1.22 -	1.21 -	1.22 -	29.6 J	0.0359 U	5.96 U	0.0395 U	3.06 J	1.59 -	0.48 UJ	7.3 -
A6-SP7-C06-14	1.57 -	--	--	--	--	0.0956 U	1.18 J	0.0277 J	1.97 U	3.32 -	0.95 J	4.8 -
A6-SP7-C06-16	0.696 -	0.624 -	0.623 -	0.624 -	4.94 J	0.0415 U	0.676 J	0.0184 U	2.04 U	1.03 J	0.427 UJ	7.8 -
A6-SP7-C06-17 *	--	1.09 -	1.06 -	1.09 -	6.8 -	--	--	--	--	--	--	--
A6-SP7-C06-18 *	--	0.524 -	0.534 -	0.524 -	6.38 -	--	--	--	--	--	--	--
A6SP7-LSP-PC-3 **	--	--	--	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-4 **	1.47 -	2.88 -	3.25 J	2.88 -	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-5 **	--	--	--	--	--	--	--	1.97 U	--	--	--	--
A6SP7-LSP-PC-7 **	--	--	--	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-9 **	--	--	--	--	--	--	--	--	--	--	--	7.1 -
A6SP7-LSP-PC-10 **	--	--	--	--	59.7 J	0.0353 -	--	--	--	--	--	--
A6SP7-LSP-PC-11 **	--	--	--	--	--	--	1.58 J	--	--	--	--	--
A6SP7-LSP-PC-12 **	--	--	--	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-14 **	--	--	--	--	--	--	--	--	2.14 J	3.77 J	--	--
Limit	1.7	1.8	1.7	1.5	82	1.4	38	3.2	30	280	96	12
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%	90%	90%	90%
Max. Result	1.57	2.88	3.25	2.88	95.6	0.0675	1.58	0 .0277	13.9	3.77	0 .95	10.1
Max. >= Limit	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
W-statistic Prob. #	--	30.3% (LN)	6.5% (LN)	15.8% (LN)	61.7% (LN)	--	--	--	--	--	--	--
Test Procedure	--	Lognormal	Lognormal	Lognormal	Lognormal	--	--	--	--	--	--	--
Sample Size	13	13	13	13	13	13	13	13	13	13	12	13
Nondetects	0	0	0	0	0	10	8	12	11	0	3	0
% Nondetects	0%	0%	0%	0%	0%	77%	62%	92%	85%	0%	25%	0%
Est. Mean*	--	1.20	1.21	1.18	30.30	--	--	--	--	--	--	--
UCL	--	1.51	1.50	1.43	63.39	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	pass	pass	pass	pass	--	--	--	--	--	--	--
a posteriori Sample	--	6	8	11	4	--	--	--	--	--	--	--
Size calculation	--	Pass	Pass	Pass	Pass	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C06-14.
** Highest post-excavation result from the Lime Scale Pit

SAMPLE ID	Barium	Beryllium	Cadmium	Chromium	Lead	Mercury	Molybdenum	Selenium	Silver	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene
A6-SP7-C06-2	104 J	0.75 -	0.59 J	20.3 J	14.2 J	0.024 J	0.92 J	0.676 U	0.113 U	38.3 U	38.3 U	38.3 U
A6-SP7-C06-3	119 J	0.71 -	0.58 J	18.3 J	12.9 J	0.023 J	1.1 J	0.67 U	0.112 U	37.7 U	37.7 U	37.7 U
A6-SP7-C06-4	121 J	0.76 -	0.81 J	23.5 J	19.9 J	0.031 J	1.4 J	0.722 U	0.12 U	40.7 U	40.7 U	40.7 U
A6-SP7-C06-5	101 J	0.66 -	0.71 J	19.8 J	14.6 J	0.024 J	1.5 J	0.693 U	0.116 U	39.2 U	39.2 U	39.2 U
A6-SP7-C06-7	80.7 J	0.55 -	0.54 J	15.7 J	10.6 J	0.019 J	0.92 J	0.636 U	0.106 U	36.7 U	49.2 J	36.7 U
A6-SP7-C06-8	75.5 J	0.44 -	0.26 J	14.1 J	11 J	0.018 J	1.1 J	0.664 U	0.111 U	37.6 U	37.6 U	37.6 U
A6-SP7-C06-9	100 J	0.44 -	0.73 J	21.7 J	11.1 J	0.021 J	1.1 J	0.673 U	0.112 U	48.6 J	99.8 J	38.6 U
A6-SP7-C06-11	113 J	0.74 -	0.73 J	21.6 J	12.2 J	0.017 J	1.2 J	0.714 U	0.119 U	40 U	40 U	40 U
A6-SP7-C06-12	116 J	0.76 -	0.82 J	20.1 J	21.6 J	0.022 J	1.4 J	0.625 U	0.2 B	36.5 U	36.5 U	36.5 U
A6-SP7-C06-13	111 J	0.78 -	0.77 J	22.4 J	14.9 J	0.032 J	1 J	0.702 U	0.117 U	49.4 J	99.4 J	41 U
A6-SP7-C06-13-D	95.4 J	0.96 -	0.66 J	20 J	16.5 J	0.056 J	1 J	0.72 U	0.12 U	41 U	41 U	41 U
A6-SP7-C06-14	131 J	0.53 -	0.87 J	24.3 J	18.4 J	0.1 J	1.1 J	0.653 U	0.109 U	42.1 J	69.3 J	38 U
A6-SP7-C06-16	63.8 J	0.39 -	0.45 J	13.4 J	8.6 J	0.014 J	0.92 J	0.641 U	0.107 U	36 U	36.4 J	36 U
A6-SP7-C06-17 *	--	--	--	--	--	--	--	--	--	--	--	--
A6-SP7-C06-18 *	--	--	--	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-3 **	--	--	--	--	--	0.04 J	--	--	--	--	--	--
A6SP7-LSP-PC-4 **	103 J	--	--	--	--	--	--	.611 U	--	--	--	--
A6SP7-LSP-PC-5 **	--	--	--	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-7 **	--	--	--	--	--	--	--	--	--	--	--	42 U
A6SP7-LSP-PC-9 **	--	--	0.33 J	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-10 **	--	--	--	--	24.8 J	--	--	--	0.1 J	355 -	506 -	--
A6SP7-LSP-PC-11 **	--	1 -	--	24.5 J	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-12 **	--	--	--	--	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-14 **	--	--	--	--	--	--	--	--	--	--	--	--
Limit	68000	1.5	82	300	400	7.5	2900	5400	29000	2000	20000	2000
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	131	1	0 .87	24.5	24.8	0 .1	1.5	0.722 U	0.2	355	506	42 U
Max. >= Limit	No	No	No	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--	--	--	--
Sample Size	13	13	13	13	13	13	12	13	13	13	13	13
Nondetects	0	0	0	0	0	0	0	13	11	9	7	13
% Nondetects	0%	0%	0%	0%	0%	0%	0%	100%	85%	69%	54%	100%
Est. Mean*	--	--	--	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--	--	--	--
a posteriori Sample Size calculation	--	--	--	--	--	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C06-14.
** Highest post-excavation result from the Lime Scale Pit

SAMPLE ID	Indeno(1,2,3-cd)pyrene	Aroclor-1254	Aroclor-1260	Dieldrin	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethene (Total)	Bromodichloromethane
A6-SP7-C06-2	38.3 U	3.8 U	3.8 U	1.5 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-3	37.7 U	6 J	3.8 U	1.5 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-4	40.7 U	36.2 J	15.6 J	1.6 U	1.2 U	1.2 U	1.2 U	1.2 U
A6-SP7-C06-5	39.2 U	16.2 J	19.5 J	1.6 U	1.2 U	1.2 U	1.2 U	1.2 U
A6-SP7-C06-7	36.7 U	3.7 U	3.7 U	1.5 U	0.8 U	0.8 U	0.8 U	0.8 U
A6-SP7-C06-8	37.6 U	3.8 U	3.8 U	1.5 U	1 U	1 U	1 U	1 U
A6-SP7-C06-9	39.1 J	29.3 J	11.5 J	1.5 U	1 U	1 U	1 U	1 U
A6-SP7-C06-11	40 U	11.5 J	4 U	1.6 U	1.1 U	1.1 U	1.1 U	1.1 U
A6-SP7-C06-12	36.5 U	37.5 J	15.6 J	1.5 U	1 U	1 U	1 U	1 U
A6-SP7-C06-13	41 U	17.6 J	8.5 J	1.6 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-13-D	41 U	48.2 J	23.5 J	1.6 U	1.1 U	1.1 U	1.1 U	1.1 U
A6-SP7-C06-14	38 U	69 J	29 J	1.5 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-16	36 U	3.6 U	3.6 U	1.4 U	0.8 U	0.8 U	0.8 U	0.8 U
A6-SP7-C06-17 *	--	--	--	--	--	--	--	--
A6-SP7-C06-18 *	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-3 **	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-4 **	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-5 **	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-7 **	--	--	--	1.7 U	--	2.5 J	--	--
A6SP7-LSP-PC-9 **	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-10 **	315 -	32.4 -	17.7 -	--	--	--	--	--
A6SP7-LSP-PC-11 **	--	--	--	--	--	--	--	--
A6SP7-LSP-PC-12 **	--	--	--	--	1.1 U	--	1.1 U	1.1 U
A6SP7-LSP-PC-14 **	--	--	--	--	--	--	--	--
Limit	20000	130	130	15	4300	410	160	4000
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%	90%	90%
Max. Result	315	69	29	1.7 U	1.2 U	2.5	1.2 U	1.2 U
Max. >= Limit	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--
Sample Size	13	13	13	13	13	13	13	13
Nondetects	11	4	6	13	13	12	13	13
% Nondetects	85%	31%	46%	100%	100%	92%	100%	100%
Est. Mean*	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--
a posteriori Sample	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C06-14.
** Highest post-excavation result from the Lime Scale Pit

SAMPLE ID	Methylene chloride	Tetrachloroethene	Toluene	Trichloroethene	Xylenes, Total
A6-SP7-C06-2	4.8 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-3	4.5 U	0.9 U	0.9 U	0.9 U	1 J
A6-SP7-C06-4	5.9 U	1.2 U	1.2 U	1.2 U	1.2 U
A6-SP7-C06-5	6 U	1.2 U	1.2 U	1.2 U	1.2 U
A6-SP7-C06-7	4.1 U	0.8 U	0.8 U	0.8 U	0.8 U
A6-SP7-C06-8	4.8 U	1 U	1 U	1 U	1 J
A6-SP7-C06-9	5.1 U	1 U	1 U	1 U	1 U
A6-SP7-C06-11	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U
A6-SP7-C06-12	4.9 U	1 U	1 U	1 U	1 J
A6-SP7-C06-13	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-13-D	5.6 U	1.1 U	1.1 U	1.1 U	1.1 U
A6-SP7-C06-14	4.3 U	0.9 U	0.9 U	0.9 U	0.9 U
A6-SP7-C06-16	4.1 U	0.8 U	0.8 U	0.8 U	0.8 U
A6-SP7-C06-17 *	--	--	--	--	--
A6-SP7-C06-18 *	--	--	--	--	--
A6SP7-LSP-PC-3 **	--	--	--	--	--
A6SP7-LSP-PC-4 **	--	--	--	--	--
A6SP7-LSP-PC-5 **	--	--	--	--	--
A6SP7-LSP-PC-7 **	--	--	--	--	--
A6SP7-LSP-PC-9 **	--	--	--	--	--
A6SP7-LSP-PC-10 **	--	14.8 J	--	--	--
A6SP7-LSP-PC-11 **	--	--	--	--	--
A6SP7-LSP-PC-12 **	5.6 U	--	1.6 J	1.1 U	1.1 U
A6SP7-LSP-PC-14 **	--	--	--	--	--
Limit	37000	3600	100000000	25000	920000000
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%
Max. Result	6 U	14.8	1.6	1.2 U	1
Max. >= Limit	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	13	13	13	13	13
Nondetects	13	12	12	13	10
% Nondetects	100%	92%	92%	100%	77%
Est. Mean*	--	--	--	--	--
UCL	--	--	--	--	--
Prob. > Limit	--	--	--	--	--
Pass / Fail	--	--	--	--	--
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

* Newly collected data after excavation in sub-CU A6-SP7-C06-14.
** Highest post-excavation result from the Lime Scale Pit

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Antimony	Cadmium	Benzo(a)anthracene	Benzo(a)pyrene
A6-RDBA-C01-1	0.987 -	0.719 J	0.733 J	0.719 J	9.74 -	0.432 U	0.152 J	40 U	40 U
A6-RDBA-C01-2	1.28 -	1.32 J	1.34 J	1.32 J	8.53 -	0.421 U	0.191 J	38.5 U	38.5 U
A6-RDBA-C01-3	0.86 -	0.863 J	0.923 J	0.863 J	5.71 J	0.405 U	0.134 J	36 U	36 U
A6-RDBA-C01-5	1.25 -	0.965 J	1 J	0.965 J	6.03 -	0.38 U	0.178 J	37.4 U	105 J
A6-RDBA-C01-7	1.2 -	1.05 J	0.995 J	1.05 J	5.95 -	0.44 U	0.202 J	38.5 U	38.5 U
A6-RDBA-C01-8	1.35 -	1.28 J	1.29 J	1.28 J	20.9 -	0.534 U	0.168 J	36.8 U	36.8 U
A6-RDBA-C01-8-D	1.35 -	0.948 J	0.985 J	0.948 J	21.1 -	0.44 U	0.208 J	37.1 U	37.1 U
A6-RDBA-C01-9	1.09 -	0.995 J	0.942 J	0.995 J	4.82 J	0.465 U	0.113 J	40.3 U	40.3 U
A6-RDBA-C01-10	0.831 -	0.52 J	0.554 J	0.52 J	4.62 J	0.411 U	0.153 J	35.5 U	35.5 U
A6-RDBA-C01-11	1.12 -	0.922 J	0.954 J	0.922 J	7.16 -	0.416 U	0.174 J	39.9 U	39.9 U
A6-RDBA-C01-13	1.23 -	1.06 J	1.01 J	1.06 J	6.97 -	0.617 U	0.173 J	40.2 U	40.2 U
A6-RDBA-C01-15	0.971 -	0.774 J	0.748 J	0.774 J	8.26 J	0.406 U	0.117 J	35.6 U	35.6 U
A6-RDBA-C01-16	1.21 -	1.14 J	1.2 J	1.14 J	8.85 -	0.42 U	0.158 J	36.8 U	43.8 J
Limit	1.7	1.8	1.7	1.5	82	96	82	20000	2000
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%
Max. Result	1.35	1.32	1.34	1.32	21.1	0.617 U	0.208	40.3 U	105
Max. >= Limit	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	0	12	0	12	10
% Nondetects	0%	0%	0%	0%	0%	100%	0%	100%	83%
Est. Mean*	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--

Sample ID	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene
A6-RDBA-C01-1	40 U	40 U	40 U	40 U	40 U	42.9 J
A6-RDBA-C01-2	38.5 U	38.5 U	38.5 U	38.5 U	38.5 U	38.5 U
A6-RDBA-C01-3	36 U	36 U	36 U	36 U	36 U	36 U
A6-RDBA-C01-5	143 J	84.7 J	70.8 J	111 J	37.4 U	195 -
A6-RDBA-C01-7	38.5 U	38.5 U	58.3 J	38.5 U	38.5 U	38.5 U
A6-RDBA-C01-8	36.8 U	36.8 U	59.4 J	37.2 J	36.8 U	51.9 J
A6-RDBA-C01-8-D	37.1 U	37.1 U	41 J	37.1 U	37.1 U	37.1 U
A6-RDBA-C01-9	50.6 J	40.3 U	40.3 U	48.2 J	40.3 U	74.3 J
A6-RDBA-C01-10	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U
A6-RDBA-C01-11	39.9 U	39.9 U	39.9 U	39.9 U	39.9 U	39.9 U
A6-RDBA-C01-13	40.2 U	40.2 U	40.2 U	40.2 U	40.2 U	40.2 U
A6-RDBA-C01-15	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U
A6-RDBA-C01-16	48.8 J	36.8 U	36.8 U	41.7 J	36.8 U	44.6 J
Limit	20000	1000	200000	2000000	2000	10000
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%
Max. Result	143	84.7	70.8	111	40.3 U	195
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	9	11	9	8	12	7
% Nondetects	75%	92%	75%	67%	100%	58%
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Sample ID	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
A6-RDBA-C01-1	40 U	40 U	40 U
A6-RDBA-C01-2	38.5 U	38.5 U	38.5 U
A6-RDBA-C01-3	36 U	36 U	36 U
A6-RDBA-C01-5	81 J	50.7 J	148 -
A6-RDBA-C01-7	38.5 U	38.5 U	38.5 U
A6-RDBA-C01-8	36.8 U	36.8 U	43.5 J
A6-RDBA-C01-8-D	37.1 U	37.1 U	37.1 U
A6-RDBA-C01-9	40.3 U	40.3 U	55.4 J
A6-RDBA-C01-10	35.5 U	35.5 U	35.5 U
A6-RDBA-C01-11	39.9 U	39.9 U	39.9 U
A6-RDBA-C01-13	40.2 U	40.2 U	40.2 U
A6-RDBA-C01-15	35.6 U	35.6 U	35.6 U
A6-RDBA-C01-16	36.8 U	36.8 U	39.1 J
Limit	20000	5000	10000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	81	50.7	148
Max. >= Limit	No	No	No
W-statistic Prob. #	- -	- -	- -
Test Procedure	- -	- -	- -
Sample Size	12	12	12
Nondetects	11	11	8
% Nondetects	92%	92%	67%
Est. Mean*	- -	- -	- -
UCL	- -	- -	- -
Prob. > Limit	- -	- -	- -
Pass / Fail	- -	- -	- -

a posteriori Sample	- -	- -	- -
Size calculation	- -	- -	- -

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Antimony	Cadmium	Benzo(a)anthracene	Benzo(a)pyrene
A6-RDBA-C02-1	0.937 -	0.646 -	0.645 -	0.646 -	3.13 U	0.441 U	0.149 J	37.7 U	37.7 U
A6-RDBA-C02-3	1.21 -	0.954 -	0.991 -	0.954 -	3.79 U	0.639 U	0.365 J	52.7 J	66.8 J
A6-RDBA-C02-3-D	1.24 -	0.86 -	0.866 -	0.86 -	5.32 J	0.458 U	0.27 J	67.6 J	76.2 J
A6-RDBA-C02-4	0.844 -	0.831 -	0.839 -	0.831 -	3.47 J	0.403 U	0.154 J	36.3 U	36.3 U
A6-RDBA-C02-6	0.953 -	1.07 -	1.14 -	1.07 -	9.57 -	0.433 U	0.159 J	35.6 U	35.6 U
A6-RDBA-C02-7	1.15 -	1.07 -	1.08 -	1.07 -	25.1 -	0.461 U	0.226 J	36 U	36 U
A6-RDBA-C02-8	0.734 -	0.569 -	0.563 -	0.569 -	6.6 -	0.504 U	0.138 J	34.1 U	34.1 U
A6-RDBA-C02-9	0.999 -	0.932 -	0.956 -	0.932 -	11.3 -	0.395 U	0.135 J	34.8 U	34.8 U
A6-RDBA-C02-11	1.02 -	0.887 -	0.9 -	0.887 -	9.36 -	0.677 U	0.171 J	121 J	61.6 J
A6-RDBA-C02-12	1.09 -	1.08 -	1.08 -	1.08 -	19.1 -	0.418 U	0.185 J	35.5 U	44.4 J
A6-RDBA-C02-13	0.978 -	0.963 -	0.978 -	0.963 -	7.74 -	0.41 U	0.176 J	35.9 U	140 J
A6-RDBA-C02-15	1.25 -	1.25 -	1.28 -	1.25 -	17 -	0.43 U	0.153 J	37.5 U	70 J
A6-RDBA-C02-16	1.19 -	1.05 -	1.05 -	1.05 -	11.3 -	0.489 U	0.164 J	35.9 U	40.8 J
Limit	1.7	1.8	1.7	1.5	82	96	82	20000	2000
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%
Max. Result	1.25	1.25	1.28	1.25	25.1	0.677 U	0.365	121	140
Max. >= Limit	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	1	12	0	10	6
% Nondetects	0%	0%	0%	0%	8%	100%	0%	83%	50%
Est. Mean*	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--

Sample ID	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene
A6-RDBA-C02-1	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U
A6-RDBA-C02-3	99.2 J	55.1 J	36.3 U	63 J	43.7 J	112 J
A6-RDBA-C02-3-D	134 J	48.7 J	36.8 U	59.7 J	42.6 J	124 J
A6-RDBA-C02-4	36.3 U	36.3 U	36.3 U	36.3 U	36.3 U	36.3 U
A6-RDBA-C02-6	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U
A6-RDBA-C02-7	42.8 J	36 U	36 U	36 U	36 U	52.5 J
A6-RDBA-C02-8	34.1 U	34.1 U	34.1 U	34.1 U	34.1 U	34.1 U
A6-RDBA-C02-9	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U
A6-RDBA-C02-11	197 J	35.6 U	35.6 U	218 J	35.6 U	910 J
A6-RDBA-C02-12	60.4 J	35.5 U	35.5 U	35.5 U	39.5 J	42.2 J
A6-RDBA-C02-13	278 J	53.9 J	35.9 U	35.9 U	48.4 J	63.8 J
A6-RDBA-C02-15	120 J	37.5 U	37.5 U	37.5 U	37.5 U	42.9 J
A6-RDBA-C02-16	90.6 J	35.9 U	35.9 U	50.3 J	35.9 U	52.9 J
Limit	20000	1000	200000	2000000	2000	10000
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%
Max. Result	278	55.1	37.7 U	218	48.4	910
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	5	10	12	9	9	5
% Nondetects	42%	83%	100%	75%	75%	42%
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Sample ID	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
A6-RDBA-C02-1	37.7 U	37.7 U	37.7 U
A6-RDBA-C02-3	68.1 J	36.3 U	69.9 J
A6-RDBA-C02-3-D	67 J	36.8 U	81.3 J
A6-RDBA-C02-4	36.3 U	36.3 U	36.3 U
A6-RDBA-C02-6	35.6 U	35.6 U	35.6 U
A6-RDBA-C02-7	36 U	36 U	40 J
A6-RDBA-C02-8	34.1 U	34.1 U	34.1 U
A6-RDBA-C02-9	34.8 U	34.8 U	34.8 U
A6-RDBA-C02-11	49.8 J	35.6 U	475 -
A6-RDBA-C02-12	54 J	35.5 U	35.5 U
A6-RDBA-C02-13	78.6 J	35.9 U	45.7 J
A6-RDBA-C02-15	37.5 U	37.5 U	37.5 U
A6-RDBA-C02-16	50 J	35.9 U	41.2 J
Limit	20000	5000	10000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	78.6	37.7 U	475
Max. >= Limit	No	No	No
W-statistic Prob. #	--	--	--
Test Procedure	--	--	--
Sample Size	12	12	12
Nondetects	7	12	7
% Nondetects	58%	100%	58%
Est. Mean*	--	--	--
UCL	--	--	--
Prob. > Limit	--	--	--
Pass / Fail	--	--	--

a posteriori Sample	--	--	--
Size calculation	--	--	--

Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Antimony	Cadmium	Benzo(a)anthracene	Benzo(a)pyrene
A6-RDBA-C03-1	0.912 -	0.744 J	0.844 J	0.744 J	6.21 -	0.443 U	0.144 J	35.2 U	35.2 U
A6-RDBA-C03-3	0.954 -	0.986 J	1.03 J	0.986 J	6.18 -	0.355 U	0.143 J	259 J	310 J
A6-RDBA-C03-4	1.27 -	1.19 J	1.07 J	1.19 J	3.47 J	0.785 U	0.472 J	40.8 U	40.8 U
A6-RDBA-C03-5	1.19 -	1.08 J	1.07 J	1.08 J	8.6 -	0.579 U	0.141 J	36.4 U	36.4 U
A6-RDBA-C03-6	1.01 -	0.929 J	0.884 J	0.929 J	3.13 U	0.54 U	0.158 J	41.1 U	41.1 U
A6-RDBA-C03-7	1.24 -	1.15 J	1.1 J	1.15 J	8.77 -	0.506 U	0.183 J	42.5 U	42.5 U
A6-RDBA-C03-9	0.662 -	0.641 J	0.663 J	0.641 J	12.4 -	0.413 U	0.15 J	167 J	212 J
A6-RDBA-C03-10	0.749 -	0.533 J	0.56 J	0.533 J	5.65 -	0.421 U	0.154 J	38.7 U	87 J
A6-RDBA-C03-11	1.24 -	1.21 J	1.25 J	1.21 J	10.4 -	0.429 U	0.206 J	35.5 U	42.9 J
A6-RDBA-C03-11-D	1.19 -	1.04 J	1.02 J	1.04 J	12.3 -	0.486 U	0.196 J	36.8 U	215 J
A6-RDBA-C03-14	1.22 -	1.09 J	1.12 J	1.09 J	5.01 -	0.481 U	0.204 J	35.4 U	76.5 J
A6-RDBA-C03-15	1.35 -	0.88 J	0.848 J	0.88 J	9.57 -	0.493 U	0.278 J	39.8 U	39.8 U
A6-RDBA-C03-16	0.934 -	0.921 J	1.01 J	0.921 J	16 -	0.457 U	0.283 J	35.5 U	57.3 J
Limit	1.7	1.8	1.7	1.5	82	96	82	20000	2000
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg
Conf. Level	95%	95%	95%	95%	95%	90%	90%	90%	90%
Max. Result	1.35	1.21	1.25	1.21	16	0.785 U	0.472	259	310
Max. >= Limit	No	No	No	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12	12	12	12
Nondetects	0	0	0	0	1	12	0	10	6
% Nondetects	0%	0%	0%	0%	8%	100%	0%	83%	50%
Est. Mean*	--	--	--	--	--	--	--	--	--
UCL	--	--	--	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--	--	--	--

Sample ID	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene
A6-RDBA-C03-1	37 J	35.2 U	35.2 U	35.2 U	35.2 U	35.2 U
A6-RDBA-C03-3	373 J	242 J	176 J	247 J	35.1 U	419 -
A6-RDBA-C03-4	40.8 U	40.8 U	40.8 U	40.8 U	40.8 U	40.8 U
A6-RDBA-C03-5	36.4 U	36.4 U	36.4 U	36.4 U	36.4 U	36.4 U
A6-RDBA-C03-6	43 J	41.1 U	41.1 U	41.1 U	41.1 U	41.1 U
A6-RDBA-C03-7	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U
A6-RDBA-C03-9	276 J	158 J	130 J	188 J	34.3 U	286 -
A6-RDBA-C03-10	151 J	57.3 J	152 J	71.5 J	38.7 U	98.7 J
A6-RDBA-C03-11	97.9 J	35.5 U	35.5 U	68.7 J	35.5 U	173 -
A6-RDBA-C03-11-D	369 J	163 J	36.8 U	132 J	36.8 U	145 -
A6-RDBA-C03-14	105 J	53.2 J	35.4 U	72.3 J	35.4 U	125 -
A6-RDBA-C03-15	39.8 U	39.8 U	54.4 J	39.8 U	39.8 U	55.2 J
A6-RDBA-C03-16	35.5 U	44.7 J	125 J	69 J	35.5 U	93.8 J
Limit	20000	1000	200000	2000000	2000	10000
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%	90%	90%	90%
Max. Result	373	242	176	247	42.5 U	419
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	5	6	7	6	12	5
% Nondetects	42%	50%	58%	50%	100%	42%
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--

a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Sample ID	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
A6-RDBA-C03-1	35.2 U	35.2 U	35.2 U
A6-RDBA-C03-3	213 J	92.7 J	351 -
A6-RDBA-C03-4	40.8 U	40.8 U	40.8 U
A6-RDBA-C03-5	36.4 U	36.4 U	36.4 U
A6-RDBA-C03-6	41.1 U	41.1 U	41.1 U
A6-RDBA-C03-7	42.5 U	42.5 U	42.5 U
A6-RDBA-C03-9	137 J	60.2 J	246 -
A6-RDBA-C03-10	53.7 J	38.7 U	90.6 J
A6-RDBA-C03-11	35.5 U	35.5 U	144 -
A6-RDBA-C03-11-D	149 J	36.8 U	146 -
A6-RDBA-C03-14	52 J	68.5 J	105 -
A6-RDBA-C03-15	39.8 U	39.8 U	45.4 J
A6-RDBA-C03-16	43.2 J	35.5 U	88.6 J
Limit	20000	5000	10000
Units	ug/kg	ug/kg	ug/kg
Conf. Level	90%	90%	90%
Max. Result	213	92.7	351
Max. >= Limit	No	No	No
W-statistic Prob. #	- -	- -	- -
Test Procedure	- -	- -	- -
Sample Size	12	12	12
Nondetects	6	9	5
% Nondetects	50%	75%	42%
Est. Mean*	- -	- -	- -
UCL	- -	- -	- -
Prob. > Limit	- -	- -	- -
Pass / Fail	- -	- -	- -

a posteriori Sample	- -	- -	- -
Size calculation	- -	- -	- -