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WAC ATTAINMENT REPORT FOR AREA 7 SOILS (SILOS PROJECT AREA)

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

JULY 2000

INFORMATION ONLY

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

20500-RP-0001
REVISION 0

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LIST OF ACRONYMS AND ABBREVIATIONS

ASCOC	area-specific constituent of concern
ASL	analytical support level
AWR	Advanced Waste Retrieval Project
ccpm	corrected counts per minute
COCs	constituents of concern
DOE	U.S. Department of Energy
FEMP	Fernald Environmental Management Project
FRLs	final remediation levels
GCS/WTS	Gas Cleaning System/Water Treatment System
HPGe	high-purity germanium (detector)
ICP/MS	inductively coupled plasma/mass spectrometry
LSP	Lime Sludge Ponds
MDC	minimum detectable concentration
mg/kg	milligrams per kilogram
mg/L	milligrams/liter
OSDF	On-Site Disposal Facility
pCi/g	picoCuries/gram
ppm	parts per million
PSP	Project Specific Plan
RCRA	Resource Conservation and Recovery Act
RSS	Radiological Scanning System
RTRAK	Real Time Radiation Tracking System
SEP	Sitewide Excavation Plan
TCLP	toxicity characteristic leaching procedure
V/FCN	Variance/Field Change Notice
WAC	Waste Acceptance Criteria

1.0 INTRODUCTION AND SCOPE

This report summarizes waste acceptance criteria (WAC) attainment sampling and analysis results from Soil Remediation Area 7. The soil sampling was performed to determine compliance with the On-Site Disposal Facility (OSDF) WAC for soil within the footprint of planned construction areas to support future processing of Silos waste.

This report summarizes the sampling design, analytical data and conclusions drawn from the characterization of Area 7 soils. Initial soil sampling and real-time scanning to support the Silos Infrastructure Project was conducted in Fall 1998. Additional sampling to support a section of the infrastructure road that affected the pilot plant drainage ditch was conducted in late December 1998 (DOE 1999). In Fall 1999, soil sampling and real-time scanning was conducted to support WAC attainment for a proposed construction laydown area near the Lime Sludge Ponds (LSP). In Spring 2000, soil sampling was conducted to supplement the initial Fall 1998 sampling for Silo 1 and 2 Advanced Waste Retrieval Project and the Silo 3 Site Preparation Project (DOE 2000).

The areas characterized under this report are scheduled for excavation as part of various Silos Project construction activities, including the construction of an infrastructure road encircling the project area, foundations for waste processing facilities, and laydown areas. The data presented in this report fulfill the requirements of the Sitewide Excavation Plan (SEP, DOE 1998a) and the WAC Attainment Plan for the OSDF (DOE 1998b) for evaluation of soil in planned excavation areas. The sampling strategy and evaluation of soil was based on the Project Specific Plan (PSP) for WAC Attainment Sampling of Area 7 Soils (DOE 1998c). Additional sampling needs identified after the issuance of the PSP and variances to specific sections of the PSP were documented and approved through the Variance/Field Change Notice (V/FCN) process. The V/FCN forms for the PSP are included in Appendix D.

The WAC characterization data presented in this report represents two phases of WAC soil sampling in the Silos Project area. Phase I sampling included six separate areas (Areas A through F) which were categorized based on the excavation plans, process knowledge and intended use for each area. Additional Phase I sampling was conducted to characterize the excavation of soil to support rerouting the Pilot Plant ditch.

Phase II sampling was initially expected to encompass the soil berms surrounding Silos 1 and 2, as well as the soil within the footprint of a proposed construction support area and pipe run support foundations (Area G). However, sampling of the silo berm soil was removed from the scope of work since historical data provided sufficient evidence of WAC attainment. In addition, sampling was added to support excavation of the catch basins, drainage lines and concrete storage area in Area D, the WPR-008 soil pile in Area E, sanitary lines in Area F, and the proposed LSP construction support area in Area H.

The characterization approach was designed to identify and segregate soil that might exceed the OSDF WAC for certain constituents. This will preclude the reuse of above-WAC soil for roads or other fill purposes and keep it from being spread during future construction activities.

The sampling design was developed to determine the disposition of soil stockpiles in the area and excess soil generated during construction. The sampling plan was not designed to identify soils that exceed the final remediation levels (FRLs) for the area-specific constituents of concern (ASCOCs). Predesign investigation PSPs (prior to soil remediation) will address soil contamination after the waste processing and treatment of the silo contents and dismantlement of the silos, waste processing facilities and utilities. These PSPs will be implemented, beginning in 2007, to determine the extent of final excavation of above-WAC and above-FRL soils as summarized in the SEP. The remedial design for the soil will be developed and documented in the Soil Remediation Area 7 Integrated Remedial Design Package, which is scheduled for submittal to the regulatory agencies in 2008.

2.0 SAMPLING DESIGN

2.1 AREA DESCRIPTION

As described in the PSP for WAC Attainment Sampling of Area 7 Soils, the characterization program was organized into six geographic areas based on the Silos Project's proposed construction and excavation plan and schedule, process knowledge of the area, and the WAC ASCOCs. The locations and boundaries of the specific areas are illustrated in Figure 2-1. The six physical areas are defined as follows:

- Area A: Soil Stockpile

  Area A consists of a soil stockpile located in the east central area of the Silos Project grounds. The sources of the stockpile are: 1) soil excavated from the Vitrification Pilot Plant footprint in 1994 prior to construction of the foundation and soil excavated for installation of office trailers in the same area, and 2) soil excavated from the area previously occupied by the high and low nitrate containment pools. The stockpile has an approximate soil volume of 1,500 cubic yards.

- Area B: Path of Planned Infrastructure Road

  Area B consists of the path of the planned infrastructure road which encircles the Silos Project area. The construction of the infrastructure road will involve a cut and fill approach including excavation of existing soil and filling with borrow soil as needed to obtain the designed elevations. A 50-foot wide band encompassing the proposed road, drainage ditches and electrical upgrades was the focus of sampling with depths varying with the cut or fill design at several points along the road.

- Area C: Area West of Silos 3 and 4

  Area C is located west of Silos 3 and 4 and west of the proposed infrastructure road. The Silos Project plans to construct office trailers, a warehouse, substation, and parking area in this vicinity for Silo 3 support in 2000. The area was recently used as a laydown area consisting of both gravel and grassy areas. Due to possible lead and chromium contamination in this area, the area was considered separately from the other areas.

- Area D: Area for Planned Silo 3 Facilities and K-65 Transfer Tank Area

  Area D consists of several planned footprint areas for the following buildings or facilities: K-65 Transfer Tank Area, Radon Control System, Silo 3 Stabilization Facility, Silo 3 container storage area, loading area, and construction laydown area. Most of these areas currently consist of undisturbed soil vegetated with grasses or gravel roadways. Excavations for foundations are planned for these facilities, with the exception of the laydown area, which required deeper characterization of soil for WAC. The proposed Transfer Tank Area consists partially of backfilled and compacted clay.

- Area E: Northeast Sector for Planned Laydown Area

  Area E is a proposed storage and laydown area located in the northeast sector of the Silos Project grounds and north of the High Nitrate Storage Tank. The area measures approximately 180 by 200 feet. Approximately 20 percent of the surface area consists of two small soil stockpiles which originated from the waste haul road excavation in 1997 as well as other unknown sources in 1996 and 1997. In October 1998, additional soil was temporarily stockpiled in the area (two weeks) resulting from a nearby excavation for utility connections. Some of this soil was also spread in the Area E vicinity (northeast sector) which raised the elevation of the area from a few inches to 1.7 feet. The majority of Area E was formerly occupied by the modular high nitrate storage tank/pool which was dismantled in 1996.

- Area F: Area for Planned K-65 Facilities

  Area F consists of a grassy, rectangular area approximately 500 by 300 feet located south of the K-65 trench and east of Silos 1 and 2. In addition to the K-65 Stabilization Facility being proposed for this area, several ancillary buildings, access roads and laydown areas for the facility are planned. The area is also proposed for the fabrication of the Radon Control System modules. In approximately 1994, the western portion of this area was used as an office and staging area, which included placement of a gravel/stone base. This area was later covered by clay fill soil, re-graded and compacted using soil excavated from the new drainage ditch and storm water retention basin located southeast of Area F. The clay fill was designed to level the area and provide a compacted soil base in preparation for future construction. The southern portion of the area has been filled with up to 4 feet of clay, with lesser amounts to the north.

- Area G: Area for Planned Construction Support Area and Pipe Run

  Area G consists of a grassy, rectangular plot, approximately 250 by 150 feet, located south of Silo 1. This area will be used as a construction staging area. In addition, Area G also encompasses an area east of Silos 2, 3 and 4, which will support a pipe support structure from Silo 4 to the proposed Transfer Tank area.

- Area H: Area for Planned Lime Sludge Pond Construction Support Area

  Area H consists of a grassy, rectangular area, approximately 250 by 40 feet, located south of the K-65 trench near the LSP. The area will be used for LSP remediation construction staging.

2.2 SAMPLING DESIGN AND METHODS SUMMARY

2.2.1 Phase I Physical Sampling Design Summary

Total uranium and technetium-99 are the two WAC constituents of concern (COCs) for the investigation area. Although all samples were analyzed for technetium-99, total uranium was analyzed in samples collected from depths or areas where *in situ* gamma spectrometry could not be utilized (subsurface samples). Additionally, samples collected from Area C, the western portion of Area B, and selected locations in Area E were also analyzed for total lead and total chromium to determine if soils in this area

have a potential to be Resource Conservation and Recovery Act (RCRA) characteristic soil. The RCRA characteristic was evaluated by comparing the total analysis result to the "twenty times" rule limit [100 milligrams per kilogram (mg/kg) for lead and chromium] calculated from the toxicity characteristic leaching procedure (TCLP) regulatory limit [5.0 milligrams per liter (mg/L) for lead and chromium].

The sampling design included systematic and biased physical sampling throughout the areas defined above as well as *in situ* gamma measurements over the surface of the area where feasible. The *in situ* measurement data was utilized for the total uranium WAC determination for areas where the surface soil is exposed. Limited biased sampling was conducted based on previous data indicating that a waste transfer pipe (within the K-65 trench) may have been the source of soil contamination adjacent to the trench. A biased sampling approach was also applied on soil stockpiles (Area A) using field radiological screening instruments; however, no above-background radiological readings were encountered and thus soil samples were collected based on random depth intervals identified in the PSP. In general, the soils that comprise Areas B through F were sampled at depth intervals which were designed to coincide with the planned excavation depth at a selected sample location. Only a surface soil sample was collected at sample locations positioned in areas where no excavation is planned.

The PSP specified 260 samples to be collected for technetium-99 analysis and 26 samples for lead and chromium analysis. All of these samples were collected at the predetermined depths with one exception. Sample location B63 (Figure 2-1) was located in an area thought to be a former gravel parking area consisting of large rock and thereby precluding collection of samples at depths below the heavy rock layer. This point was moved to a nearby ditch, where the surface soil could be sampled while maintaining the sample location in the planned road footprint. The number of total uranium samples was not specified in the PSP due to the unknown number of sample points where the surface soil was exposed and favorable to *in situ* gamma spectroscopy. The final number of total uranium samples collected was 184 which represent areas with gravel cover, areas otherwise inaccessible for *in situ* gamma detectors, or soil that exhibited above-background radiological levels as discussed below.

In addition to the planned samples discussed above, an additional ten samples were collected for total uranium and technetium-99 analysis from a temporary soil stockpile that was placed in Area E as a result of a utility connection excavation to the northeast of Area E. These sample locations were selected during field sampling based on soil discolorations and radiological measurements (hand frisker). The purpose of characterizing the pile was to determine the potential impact, if any, on the underlying soil in the vicinity of the pile. The sampling strategy for this temporary soil pile is described in V/FCN 20500PSP01-4 in Appendix D.

Two biased samples were also collected at Location D10 due to field radiological measurements (hand frisker) of approximately 200 corrected counts per minute (ccpm). The laboratory results of these two samples are discussed below. The final number of physical samples collected was 274 for technetium-99 analysis, 184 for total uranium analysis and 29 for total chromium and lead analysis.

All laboratory analyses were performed at the Fernald Environmental Management Project (FEMP) on-site laboratory. Total uranium was analyzed by an inductively coupled plasma/mass spectrometry (ICP/MS) method and technetium-99 by the gas proportional counting method at Analytical Support Levels (ASLs) E and B, respectively. Total lead and chromium analyses were performed by an ICP/MS method at ASL B.

The sampling design developed to characterize the soils to be excavated from the Pilot Plant Ditch and surrounding bank area is documented in V/FCN 20500PSP01-7. The sampling design included ten sample locations (Figure 2-2), each having a target depth corresponding to the designed excavation depth. At each location, the entire soil core collected down to the target depth was subjected to field radiological screening using a beta-gamma meter (frisker) to apply a biased sampling approach. Two of the ten boring locations were located within the centerline of the ditch during low flow, with the remaining locations on the bank of the ditch. No above-background radiological levels were encountered during the sampling therefore all samples were collected from the surface.

The constituents of concern for this Pilot Plant Ditch area were selected based on all analytical results for soil and sediment in the Sitewide Environmental Database for which positive detections were reported. These data are provided in Appendix E. The area footprint used for the data query extended from the existing Pilot Plant Ditch sump, located west of the Advanced Wastewater Treatment Facility, to the fence west of the silos. No positive detections were reported for the WAC constituents or RCRA-listed contaminants near the regulatory limits. In fact, positive detections were near background levels. The review of data revealed that all results for the 18 OSDF WAC COCs were either not detected or were well below WAC limits. Total uranium and technetium-99 samples were included in the analytical plan due to their ubiquitous nature, and, in the case of technetium-99, its relatively low WAC limit.

2.2.2 Phase II Physical Sampling Design Summary

Based on factors such as depth, analytes of concern, and proximity of the surrounding data, additional sample locations were generated to sufficiently characterize the soils planned for excavation. Figure 2-1 depicts all the WAC attainment sampling locations for the PSP for WAC Attainment Sampling of Area 7

Soils, including V/FCNs 20500PSP1-9, 12, 14 and 15. A brief summary of the design of each sampling event is described below. Appendix D contains the associated V/FCNs for the sampling efforts, while the analytical data are summarized in Table 3-4. Analytical data to support WAC attainment in the LSP construction support area is provided in Appendix F.

2.2.2.1 V/FCN 20500PSP1-09 Scanning and Sampling

The sampling design involved real-time scanning (refer to Section 2.2.3 for additional details) and surface soil sampling at six locations (A7-G1 through A7-G6) in a proposed construction support area South of Silo 1. The surface was scanned and soil samples collected to support the potential use as an equipment laydown and preparation area. In addition, soil borings were conducted to a depth of 5 feet at six locations (A7-G7 through A7-G12) along a proposed pipe run east of Silo 2, 3 and 4. Six-inch soil sample intervals were collected at the 0 to 0.5, 1 to 1.5, 2.5 to 3, and 4.5 to 5-foot depths. These samples were collected to support WAC attainment of the soil excavated from the pipe run foundations. All samples were submitted for total uranium and technetium-99 analysis at ASL B. Each boring was subjected to field radiological screening using a beta-gamma meter (frisker).

2.2.2.2 V/FCN 20500PSP1-12 Sampling

The sampling design involved the collection of two soil borings (A7-28 and A7-29) to a depth of 5 feet within Area D. Six-inch soil sample intervals were retrieved at the 0 to 0.5, 1 to 1.5, 2.5 to 3, and 4.5 to 5-foot depths. These samples were collected to demonstrate WAC attainment for excavated soil from the installation of catch basins, drainage lines, and a concrete storage area near the proposed Silo 3 Interim Storage Area. The samples were submitted for total uranium and technetium-99 analysis at ASL B. Each boring was subjected to field radiological screening using a beta-gamma meter (frisker).

2.2.2.3 V/FCN 20500PSP1-14 Sampling

The sampling design involved the collection of three soil borings (A7-WPR8-1, 2, and 3) from a small soil/gravel/sand pile located just north of Area E (K-65 Laydown Area). The pile is comprised of construction material (sand and gravel), purchased from an off-site vendor, and soil from the construction of the IT-operated Gas Cleaning System/Water Treatment System (GCS/WTS) building. Soil sampling was conducted in anticipation of removal of the pile and disposition to the OSDF. Three randomly selected, 6-inch soil sample intervals were collected and submitted for total uranium and technetium-99 analysis at ASL B. Each boring was subjected to field radiological screening using a beta-gamma meter (frisker).

2.2.2.4 V/FCN 20500PSP1-15 Sampling

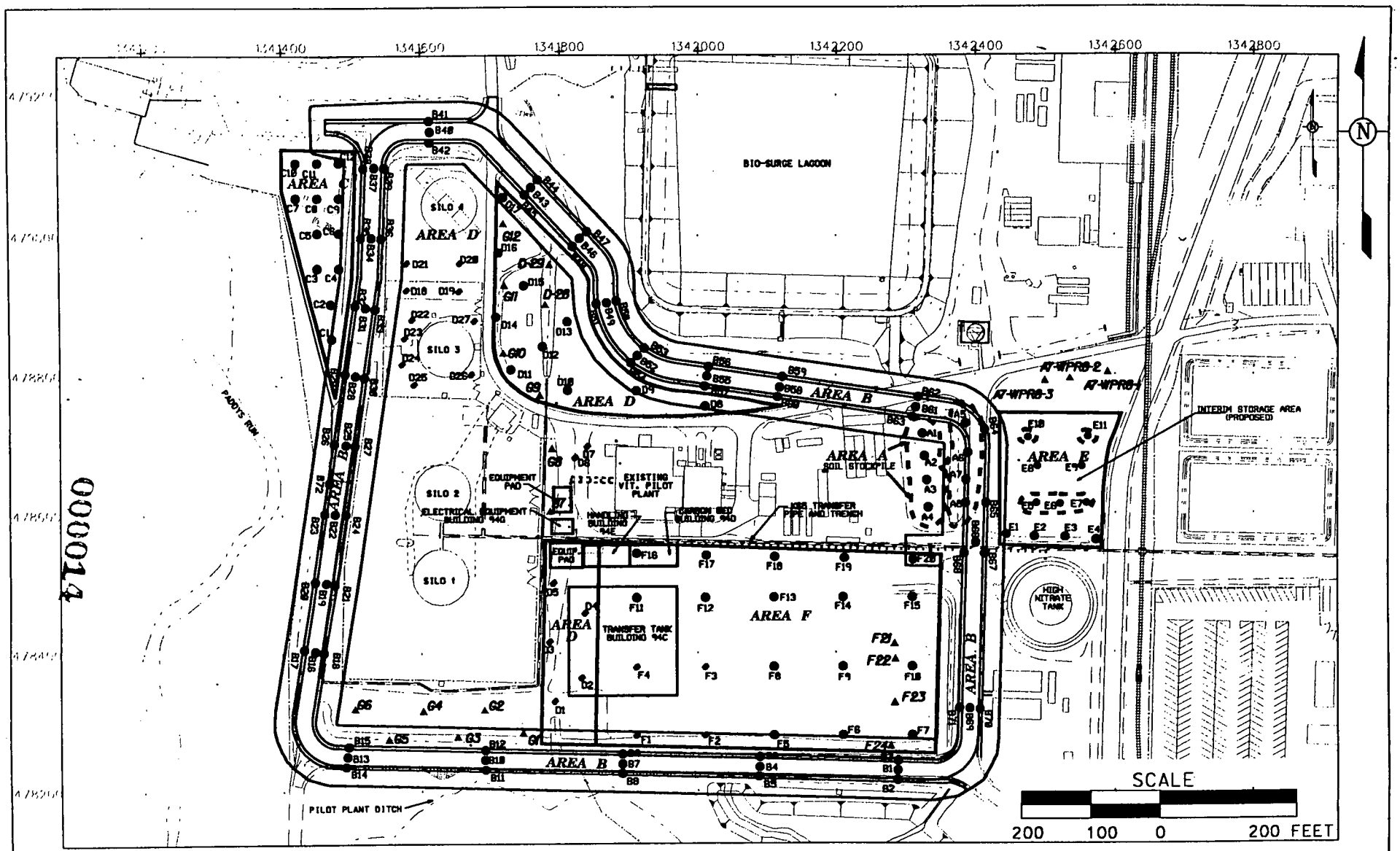
The sampling design involved the collection of four soil borings (A7-F21, 22, 23 and 24) in the footprint of the proposed K-65 Stabilization Facility (Area F). Three 6-inch soil sample intervals were collected at the 1.5 to 2, 3.5 to 4, and 5.5 to 6-foot depths. Surface sample intervals were not collected since sufficient real-time scanning and soil sample data was already available. At-depth soil sampling was conducted to support the WAC attainment for soil excavated in the installation of underground piping (sanitary lines). The samples were submitted for total uranium and technetium-99 analysis at ASL B. Each boring was subjected to field radiological screening using a beta-gamma meter (frisker).

2.2.3 *In Situ* Gamma Spectrometry Methods

In situ gamma spectrometry instruments were applied as outlined in the Area 7 WAC characterization PSP. The investigation area was covered by field gamma spectrometry measurements as designed under the PSP to enhance the characterization of total uranium concentrations at the exposed soil surface. Both sodium iodide detection systems [Real Time Radiation Tracking System (RTRAK) and Radiological Scanning System (RSS)] and high-purity germanium (HPGe) detector systems were utilized due to high gamma activity emanating from Silos 1, 2, and 3. The high background resulted in an increase in the minimum detectable concentration outside the operational limits for the sodium iodide detection systems within a range of approximately 200 feet around Silo 1 and 2. Therefore the HPGe systems, which yielded acceptable results in terms of the minimum detectable concentration (MDC) and counting dead time, were utilized for the total uranium WAC determination in areas of exposed or partially exposed soil within this 200-foot radial range of the silos. The average MDCs were even deviated [up to 228 parts per million (ppm)] during RTRAK/RSS use near the boundary of the 200-foot radial limit although the MDCs remained well below the 400 ppm section level for total uranium.

Figure B-1 in Appendix B illustrates the coverage area, as well as total uranium concentration ranges, for the *in situ* gamma spectrometry systems. The RTRAK was utilized for the majority of Area F (grassy area south of K-65 trench) and Area E. The Area E RTRAK coverage was conducted prior to the soil disturbance in the area resulting from the utility connection and excavation. The RSS was utilized for the southern portion of Area B (grassy area), half of Area C, and most of the grass-covered areas of Area D north of the Vitrification Pilot Plant and Second Street. HPGe measurements were collected in areas surrounding Silos 1, 2 and 3 or in areas inaccessible for the RTRAK/RSS, including Area D east and north of the silos due to the high gamma background, Area B west of the silos, and a portion of

Area C with rough terrain. The HPGe measurements provided for 99.1 percent coverage of the areas where HPGe was utilized as described in the PSP. The contingency for a confirmation and delineation phase of *in situ* gamma spectrometry described in the PSP was not implemented due to the absence of an exceedance of the total uranium action levels (400 ppm for HPGe at 1 meter height and 721 ppm for RTRAK/RSS).



LEGEND:

MOST RECENT WAC SAMPLING:

- ▲ G1- G12, VARIANCE 9 SAMPLING
- ▲ D28 AND D29, VARIANCE 12 SAMPLING
- ▲ WPR8-1 - WPR8-3, VARIANCE 14 SAMPLING
- ▲ F21- F24, VARIANCE 15 SAMPLING

PREVIOUS WAC SAMPLING:

- ● SAMPLE/BORING LOCATION
- • DEEP BORING LOCATION

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STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 2-1. SILOS PROJECT AREA, SOIL WAC ATTAINMENT SAMPLING LOCATIONS

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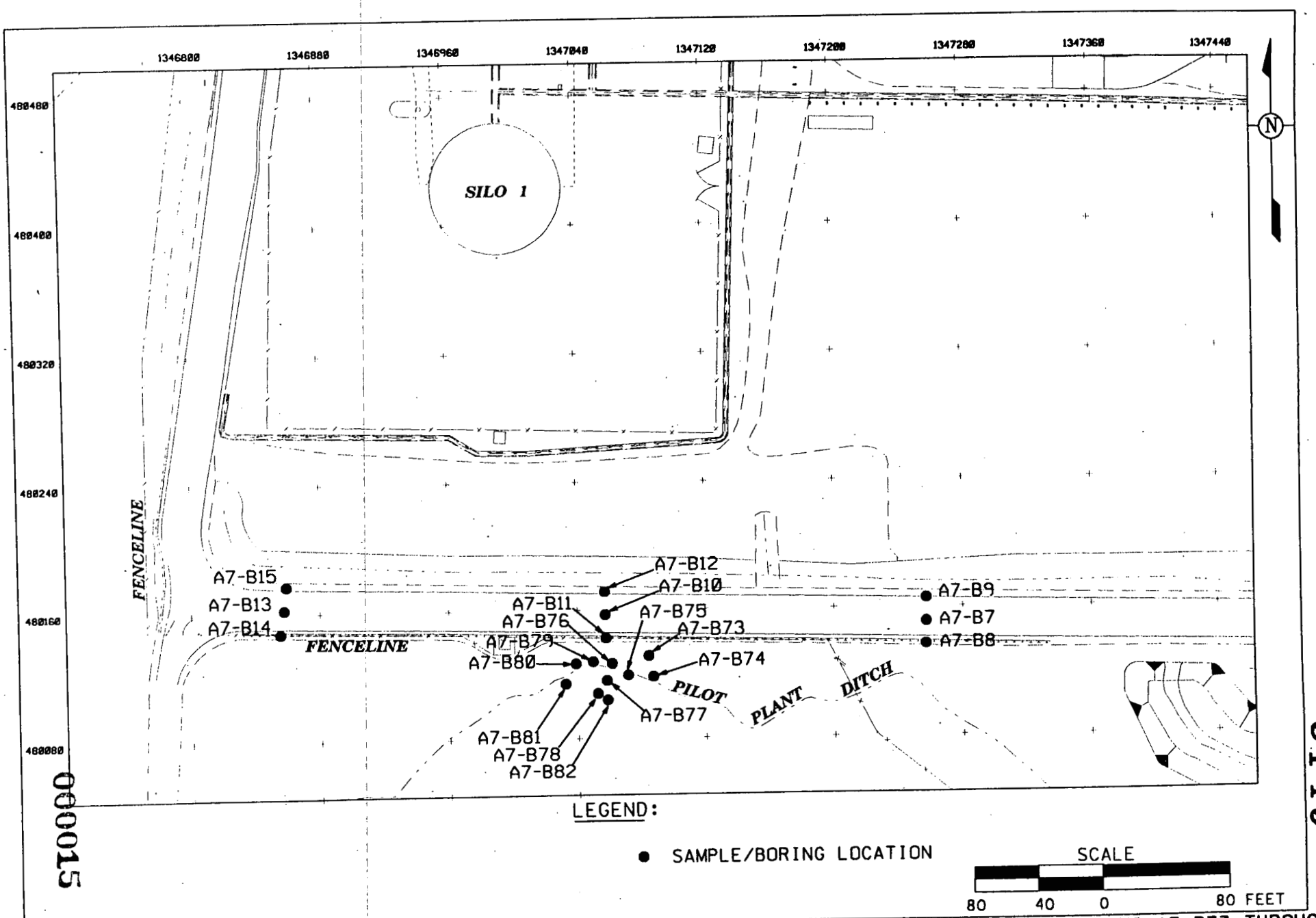

FIGURE 2-2. SAMPLE LOCATIONS A7-B73 THROUGH A7-B82, PILOT PLANT DITCH AREA

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3.0 SUMMARY OF ANALYTICAL RESULTS AND CONCLUSIONS

3.1 PHASE I ANALYTICAL DATA SUMMARY

The laboratory analytical data are summarized in Tables 3-1 and 3-2. For comparison purposes, the historical data collected during the Operable Unit 5 Remedial Investigation/Feasibility Study (DOE 1995a and 1995b) are also summarized in Table 3-3.

For the 1998 sampling round, the two biased samples collected from Area D (Location D10) yielded beta/gamma field readings (hand frisker) of approximately 200 ccpm and were collected from the 0.5 to 1.0 feet and 1.0 to 1.5 feet depth intervals. The laboratory result for total uranium from these two samples was 59.3 and 49.9 mg/kg, respectively. The technetium concentration was 1.6 and <1.2 picoCuries per gram (pCi/g), respectively. Most of the field beta/gamma reading can probably be attributed to radium-226 based on other below-grade sampling data in the same area.

In the Pilot Plant ditch section to be excavated, the highest total uranium and technetium-99 result was 127 mg/kg and 2.7 pCi/g, respectively, which was obtained from a sediment sample collected from the ditch channel (sample ID A7-B75-1-R). The sample results demonstrated that the soils were well below the WAC limit for the two constituents of concern and were near background levels in most cases.

3.2 PHASE I *IN SITU* GAMMA SPECTROMETRY SUMMARY

The *in situ* gamma spectrometry data are summarized in Appendix B, including data generated from the RTRAK, RSS, and HPGe systems. Figure B-1 illustrates the coverage area and color-coded total uranium concentrations in surface soil for all three measurement systems. Tables B-2 and B-3 provide a summary of the RTRAK and RSS data, respectively, divided into data batches based on specific coverage areas. The maximum total uranium concentration was obtained from the RSS at 332 ppm in Area D (individual detection area indicated as red outline in Figure B-1) approximately 100 feet southeast of Silo 4.

Table B-1 summarizes the total uranium concentrations as determined by HPGe measurements. HPGe detectors were primarily utilized within a 200-feet radius of Silos 1 and 2 where the soil surface was exposed. The maximum total uranium concentration recorded with the HPGe systems was 97 ppm approximately 50 feet northeast of Silo 3. All HPGe measurements were performed at a detector height of 1 meter.

3.3 PHASE I CONCLUSIONS

The data generated under the WAC attainment PSP in conjunction with the historical data set demonstrated that the Area 7 soils to be excavated did not exceed the total uranium and technetium-99 OSDF WAC or RCRA characteristic for lead and chromium in the areas sampled.

The results obtained from the Pilot Plant sampling design, combined with the historical data, demonstrated that there was no above-WAC concern for the soils identified for excavation in the Pilot Plant ditch vicinity as outlined in the Silos Project infrastructure road engineering design drawings. As a result, the Silos Project proceeded with excavating this soil and debris, and disposed of it per the Silos Project Waste Management Plan in Spring 1999.

3.4 PHASE II ANALYTICAL DATA AND GAMMA SPECTROMETRY SUMMARY

The real-time scanning data for V/FCN 20500PSP1-09 are mapped in Figure 3-1. The sampling results for all the V/FCNs are summarized in Table 3-4. The highest total uranium and technetium-99 result was 43.6 mg/kg and 2.2 pCi/g, respectively. The beta-gamma frisker measurements for all borings were near background limits. The scanning, sample, and beta-gamma results demonstrate that the soils are well below the WAC limit for the two COCs and are near background levels.

The results obtained from this sampling design, combined with the historical data, demonstrated that there were no above-WAC concerns for the soils identified for excavation in the aforementioned V/FCNs. Therefore, the Advanced Waste Retrieval (AWR) and Silo 3 Projects can plan to proceed with excavation and disposition of the soil and debris per the Silos Project Waste Management Plan in Summer 2000.

TABLE 3-1
SUMMARY OF WAC COC ANALYTICAL DATA - 1998 SAMPLING

Area/COC	No. Samples	Mean Concentration	Minimum Concentration	Maximum Concentration	OSDF WAC or 20x RCRA Limit[a]
		Area A			
Total Uranium	16	9.2 mg/kg	3.6 mg/kg	15.0 mg/kg	1,030 mg/kg
Technetium-99	16	1.3 pCi/g	1.0 pCi/g	2.1 pCi/g	29.1 pCi/g
		Area B			
Total Uranium	63	12.3 mg/kg	1.1 mg/kg	94.2 mg/kg	1,030 mg/kg
Technetium-99	112	1.2 pCi/g	0.7 pCi/g	8.3 pCi/g	29.1 pCi/g
Lead	8[b]	15.6 mg/kg	9.8 mg/kg	34.7 mg/kg	100 mg/kg
Chromium	8[b]	8.4 mg/kg	3.6 mg/kg	13.1 mg/kg	100 mg/kg
		Area C			
Total Uranium	3	18.4 mg/kg	5.6 mg/kg	31.7 mg/kg	1,030 mg/kg
Technetium-99	12	1.4 pCi/g	1.1 pCi/g	2.4 pCi/g	29.1 pCi/g
Lead	12[b]	16.3 mg/kg	10.3 mg/kg	27.4 mg/kg	100 mg/kg
Chromium	12[b]	10.5 mg/kg	7.6 mg/kg	14.6 mg/kg	100 mg/kg
		Area D			
Total Uranium	67	8.1 mg/kg	1.1 mg/kg	66.8 mg/kg	1,030 mg/kg
Technetium-99	80	1.3 pCi/g	1.0 pCi/g	4.3 pCi/g	29.1 pCi/g
		Area E			
Total Uranium	23	5.0 mg/kg	1.9 mg/kg	12.0 mg/kg	1,030 mg/kg
Technetium-99	24	3.2 pCi/g	1.1 pCi/g	21 pCi/g	29.1 pCi/g
Lead	9[a]	22.0 mg/kg	15.5 mg/kg	32.0 mg/kg	100 mg/kg
Chromium	9[a]	16.0 mg/kg	11.9 mg/kg	20.4 mg/kg	100 mg/kg
		Area F			
Total Uranium	12	3.6 mg/kg	1.7 mg/kg	9.84 mg/kg	1,030 mg/kg
Technetium-99	32	1.2 pCi/g	1.0 pCi/g	2.1 pCi/g	29.1 pCi/g

[a] The OSDF limit for RCRA Characteristic soil due to lead or chromium is 5.0 mg/L as determined by the TCLP. All samples were analyzed for total lead and total chromium and therefore the "twenty times TCLP limit" value (100 mg/kg) is applicable.

[b] Lead and chromium only applicable as COCs in Area C (west of Silo 4), a portion of Area B west of Silos 1 and 2, and a portion of Area E soil stockpiles.

TABLE 3-2
SUMMARY OF WAC ANALYTICAL DATA
FOR THE PILOT PLANT DITCH SECTION TO BE EXCAVATED

Sample Identifier	General Location	Total Uranium (mg/kg)	Technetium-99 (pCi/g)	Sample Depth Interval	Total Boring Depth
A7-B73-1-R	North bank of ditch	15 mg/kg	0.9 pCi/g	0-0.5 feet	6.4 feet
A7-B74-1-R	North bank of ditch	11 mg/kg	1.3 pCi/g	0-0.5 feet	1.6 feet
A7-B75-1-R	In centerline of ditch	127 mg/kg	2.7 pCi/g	0-0.5 feet	1.5 feet
A7-B76-1-R	North bank of ditch	33 mg/kg	1.8 pCi/g	0-0.5 feet	1.4 feet
A7-B77-1-R	South bank of ditch	25 mg/kg	1.5 pCi/g	0-0.5 feet	3.4 feet
A7-B78-1-R	South bank of ditch	27 mg/kg	1.3 pCi/g	0-0.5 feet	4.5 feet
A7-B79-1-R	In centerline of ditch	119 mg/kg	0.9 pCi/g	0-0.5 feet	1.2 feet
A7-B80-1-R	North bank of ditch	65 mg/kg	2.1 pCi/g	0-0.5 feet	1.4 feet
A7-B81-1-R	South bank of ditch	26 mg/kg	1.6 pCi/g	0-0.5 feet	1.5 feet
A7-B82-1-R	South bank of ditch	30 mg/kg	0.6 pCi/g	0-0.5 feet	5.6 feet

TABLE 3-3
SUMMARY OF WAC COC ANALYTICAL DATA -
HISTORICAL DATA FROM ENTIRE SILO PROJECT AREA

COC	Historical Data Set (No. of Samples)	Mean Concentration	Minimum Concentration	Maximum Concentration	OSDF WAC or 20x RCRA Limit[a]
Total Uranium	340[b]	26.0 mg/kg	1.2 mg/kg	436.7 mg/kg	1,030 mg/kg
Technetium-99	111[b]	4.6 pCi/g	0.1 pCi/g	602 pCi/g	29.1 pCi/g
Lead	4	9.8 mg/kg	7.9 mg/kg	13.2 mg/kg	100 mg/kg
Chromium	7	12.2 mg/kg	10.2 mg/kg	16.8 mg/kg	100 mg/kg

[a] The OSDF limit for RCRA Characteristic soil due to lead or chromium is 5.0 mg/L as determined by the TCLP. All samples were analyzed for total lead and total chromium and therefore the "twenty times TCLP limit" value (100 mg/kg) is applicable.

[b] Sample set excludes silo berm data.

TABLE 3-4
SUMMARY OF WAC ANALYTICAL DATA FOR V/FCNs 20500PSP1-9, 12, 14, AND 15

Sample ID	Parameter	Results	Units	Qualifier	Parameter	Result	Units	Qualifier
Variance 20500-001-9								
A7-G1-1-R	Total Uranium	10.2	ppm	NV	Technetium 99	1.4	pCi/g dry	U
A7-G2-1-R	Total Uranium	1.48	ppm	NV	Technetium 99	1.5	pCi/g dry	U
A7-G3-1-R	Total Uranium	10.6	ppm	NV	Technetium 99	1.3	pCi/g dry	U
A7-G4-1-R	Total Uranium	10.3	ppm	NV	Technetium 99	1.4	pCi/g dry	U
A7-G5-1-R	Total Uranium	10.2	ppm	NV	Technetium 99	1.4	pCi/g dry	U
A7-G6-1-R	Total Uranium	10	ppm	NV	Technetium 99	1.3	pCi/g dry	U
A7-G7-1-R	Total Uranium	2.95	ppm	NV	Technetium 99	1.4	pCi/g dry	UNV
A7-G7-3-R	Total Uranium	10.6	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-G7-6-R	Total Uranium	2.17	ppm	NV	Technetium 99	1.4	pCi/g dry	UNV
A7-G7-10-R	Total Uranium	2.46	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G8-1-R	Total Uranium	13.7	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-G8-3-R	Total Uranium	4.11	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G8-6-R	Total Uranium	2.15	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G8-10-R	Total Uranium	3.25	ppm	NV	Technetium 99	1.4	pCi/g dry	UNV
A7-G9-1-R	Total Uranium	2.16	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G9-3-R	Total Uranium	1.93	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G9-6-R	Total Uranium	4.66	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G9-10-R	Total Uranium	1.71	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G10-1-R	Total Uranium	43.6	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G10-3-R	Total Uranium	7.53	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G10-6-R	Total Uranium	2.22	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G10-10-R	Total Uranium	2.78	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G11-1-R	Total Uranium	25	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G11-3-R	Total Uranium	4.35	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G11-6-R	Total Uranium	4.29	ppm	NV	Technetium 99	1.4	pCi/g dry	UNV
A7-G11-10-R	Total Uranium	2.93	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-G12-1-R	Total Uranium	4.45	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-G12-3-R	Total Uranium	1.32	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-G12-6-R	Total Uranium	1.37	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV

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TABLE 3-4
SUMMARY OF WAC ANALYTICAL DATA FOR V/FCNs 20500PSP1-9, 12, 14, AND 15

Sample ID	Parameter	Results	Units	Qualifier	Parameter	Result	Units	Qualifier
A7-G12-10-R	Total Uranium	1.81	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
Variance 20500-001-12								
A7-D28-1-R	Total Uranium	2.6	ppm	NV	Technetium 99	1.4	pCi/g dry	UNV
A7-D28-3-R	Total Uranium	2.02	ppm	NV	Technetium 99	1.5	pCi/g dry	UNV
A7-D28-6-R	Total Uranium	2.29	ppm	NV	Technetium 99	2.2	pCi/g dry	UNV
A7-D28-10-R	Total Uranium	2.15	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-D29-1-R	Total Uranium	4.68	ppm	NV	Technetium 99	1.4	pCi/g dry	UNV
A7-D29-3-R	Total Uranium	1.95	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-D29-6-R	Total Uranium	2.23	ppm	NV	Technetium 99	1.2	pCi/g dry	UNV
A7-D29-10-R	Total Uranium	1.73	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
Variance 20500-001-14								
A7-WPR8-1-9-R	Total Uranium	3.74	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
A7-WPR8-2-19-R	Total Uranium	5.33	ppm	NV	Technetium 99	1.5	pCi/g dry	UNV
A7-WPR8-3-7-R	Total Uranium	4.28	ppm	NV	Technetium 99	1.3	pCi/g dry	UNV
Variance 20500-001-15								
A7-F21-4-R	Total Uranium	2.35	ppm	NV	Technetium 99	1.5	pCi/g dry	UNV
A7-F21-7-R	Total Uranium	2.29	ppm	NV	Technetium 99	0.65	pCi/g dry	UNV
A7-F21-11-R	Total Uranium	2.7	ppm	NV	Technetium 99	0.82	pCi/g dry	UNV
A7-F22-4-R	Total Uranium	2.1	ppm	NV	Technetium 99	0.74	pCi/g dry	UNV
A7-F22-7-R	Total Uranium	1.67	ppm	NV	Technetium 99	0.76	pCi/g dry	UNV
A7-F22-11-R	Total Uranium	2.09	ppm	NV	Technetium 99	0.89	pCi/g dry	UNV
A7-F23-4-R	Total Uranium	1.88	ppm	NV	Technetium 99	0.81	pCi/g dry	UNV
A7-F23-7-R	Total Uranium	1.79	ppm	NV	Technetium 99	0.88	pCi/g dry	UNV
A7-F23-11-R	Total Uranium	1.27	ppm	NV	Technetium 99	0.79	pCi/g dry	UNV
A7-F24-4-R	Total Uranium	1.69	ppm	NV	Technetium 99	1.1	pCi/g dry	NV
A7-F24-7-R	Total Uranium	2.16	ppm	NV	Technetium 99	0.88	pCi/g dry	UNV
A7-F24-11-R	Total Uranium	1.89	ppm	NV	Technetium 99	0.85	pCi/g dry	UNV

NV - non-validated
UNV - estimated non-validated

000022

Area 7 WAC Attainment Scanning Phase I&II
Figure 3-1

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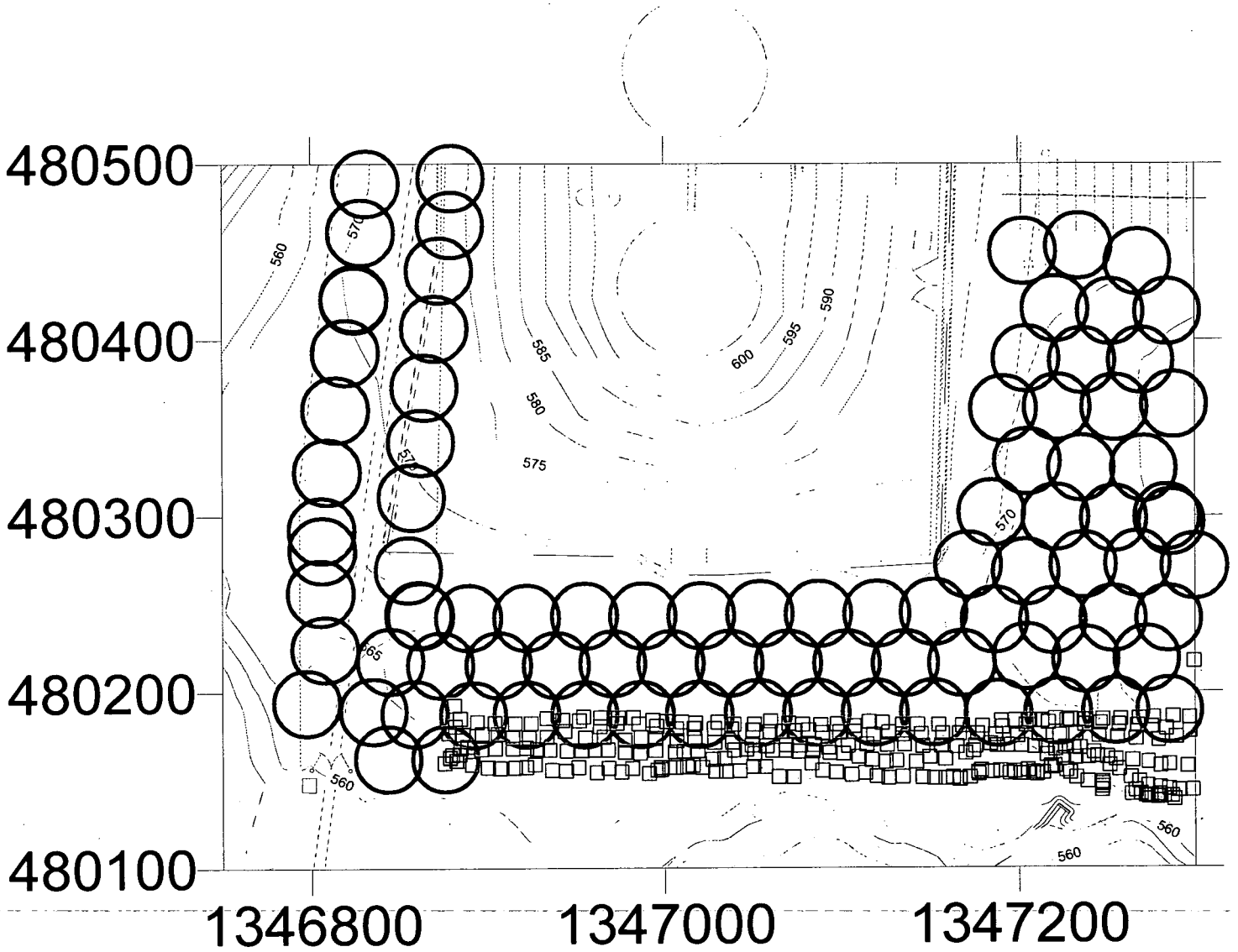
Moisture Corrected Total Uranium
HPGEs used
Coverage Plot (Field of view to scale)
Measurement Dates: 6/30/99, 7/7/99, & 7/8/99

N



RMS Total Uranium (ppm)
-110.00 to 82.00
82.00 to 164.00
164.00 to 246.00
246.00 to 328.00
328.00 to 10000.00

HPGe Total Uranium (ppm)
0.00 to 82.00
82.00 to 164.00
164.00 to 246.00
246.00 to 328.00
328.00 to 10000.00

RTIMP DWG Title: A7-P1&P2-TU-1PT-MC
Project: 20500-PSP-0001-9
Name: WAC Attainment Sampling of Area 7
Prepared by: David Allen
File: A7_P1&P2_TU_1PT_MC.srf
Date Prepared: 05/23/00

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APPENDIX A

AREA 7 1998 ANALYTICAL DATA SUMMARY

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
A	A7-A1-1-R	Uranium, Total	7.9	-	mg/kg	0	0.5	1347706.0	480628.4	584.8
A	A7-A1-14-R	Uranium, Total	12.5	J	mg/kg	6.5	7	1347706.0	480628.4	584.8
A	A7-A2-2-R	Uranium, Total	8.7	-	mg/kg	0.5	1	1347711.2	480597.8	587.9
A	A7-A2-6-R	Uranium, Total	10.0	-	mg/kg	2.5	3	1347711.2	480597.8	587.9
A	A7-A3-14-R	Uranium, Total	6.5	-	mg/kg	6.5	7	1347710.3	480554.2	585.4
A	A7-A3-9-R	Uranium, Total	7.9	-	mg/kg	4	4.5	1347710.3	480554.2	585.4
A	A7-A4-10-R	Uranium, Total	3.6	-	mg/kg	4.5	5	1347716.2	480518.8	584.2
A	A7-A4-14-R	Uranium, Total	7.3	-	mg/kg	6.5	7	1347716.2	480518.8	584.2
A	A7-A5-4-R	Uranium, Total	5.2	-	mg/kg	1.5	2	1347774.9	480628.6	580.3
A	A7-A5-6-R	Uranium, Total	13.7	-	mg/kg	2.5	3	1347774.9	480628.6	580.3
A	A7-A6-5-R	Uranium, Total	11.7	-	mg/kg	2	2.5	1347772.2	480587.1	580.4
A	A7-A6-7-R	Uranium, Total	6.4	-	mg/kg	3	3.5	1347772.2	480587.1	580.4
A	A7-A7-17-R	Uranium, Total	12.9	-	mg/kg	8	8.5	1347770.6	480545.3	585.3
A	A7-A7-5-R	Uranium, Total	9.1	-	mg/kg	2	2.5	1347770.6	480545.3	585.3
A	A7-A8-10-R	Uranium, Total	8.9	-	mg/kg	4.5	5	1347761.8	480504.5	581.5
A	A7-A8-3-R	Uranium, Total	15.0	-	mg/kg	1	1.5	1347761.8	480504.5	581.5
		Mean	**9.2**							
		Maximum	**15.0**							
		Minimum	**3.6**							
B	A7-B2-5-R	Uranium, Total	1.4	J	mg/kg	2	2.5	1347678.2	480133.5	572.5
B	A7-B3-3-R	Uranium, Total	2.1	J	mg/kg	1	1.5	1347681.0	480174.0	573.1
B	A7-B3-6-R	Uranium, Total	1.9	J	mg/kg	2.5	3	1347681.0	480174.0	573.1
B	A7-B5-3-R	Uranium, Total	2.0	J	mg/kg	1	1.5	1347480.7	480130.7	571.6
B	A7-B6-3-R	Uranium, Total	2.3	-	mg/kg	1	1.5	1347480.7	480180.7	576.9
B	A7-B6-6-R	Uranium, Total	3.0	-	mg/kg	2.5	3	1347480.7	480180.7	576.9
B	A7-B9-4-R	Uranium, Total	2.6	J	mg/kg	1.5	2	1347285.8	480191.5	571.1
B	A7-B9-7-R	Uranium, Total	3.4	J	mg/kg	3	3.5	1347285.8	480191.5	571.1
B	A7-B12-5-R	Uranium, Total	12.4	J	mg/kg	2	2.5	1347080.8	480190.6	568.5
B	A7-B16-1-R	Uranium, Total	94.2	J	mg/kg	0	0.5	1346832.1	480325.3	568.9
B	A7-B17-4-R	Uranium, Total	5.1	-	mg/kg	1.5	2	1346807.1	480325.3	568.0
B	A7-B19-1-R	Uranium, Total	19.7	-	mg/kg	0	0.5	1346847.8	480424.1	571.8
B	A7-B22-1-R	Uranium, Total	15.2	-	mg/kg	0	0.5	1346862.5	480523.0	574.5
B	A7-B25-1-R	Uranium, Total	16.7	-	mg/kg	0	0.5	1346877.2	480621.9	575.5
B	A7-B26-1-R	Uranium, Total	8.6	-	mg/kg	0	0.5	1346852.2	480621.9	574.9
B	A7-B28-1-R	Uranium, Total	47.0	-	mg/kg	0	0.5	1346891.9	480720.8	576.1
B	A7-B29-1-R	Uranium, Total	9.0	J	mg/kg	0	0.5	1346866.9	480720.8	576.1
B	A7-B29-3-R	Uranium, Total	2.1	J	mg/kg	1	1.5	1346866.9	480720.8	576.1
B	A7-B30-1-R	Uranium, Total	34.0	J	mg/kg	0	0.5	1346905.8	480720.8	576.2
B	A7-B30-4-R	Uranium, Total	2.3	J	mg/kg	1.5	2	1346905.8	480720.8	576.2
B	A7-B31-1-R	Uranium, Total	73.5	J	mg/kg	0	0.5	1346906.6	480819.7	576.4
B	A7-B32-1-R	Uranium, Total	14.3	J	mg/kg	0	0.5	1346881.6	480819.7	576.4
B	A7-B32-3-R	Uranium, Total	4.3	J	mg/kg	1	1.5	1346881.6	480819.7	576.4
B	A7-B33-3-R	Uranium, Total	2.1	J	mg/kg	1	1.5	1346931.6	480819.7	576.5
B	A7-B34-1-R	Uranium, Total	5.6	J	mg/kg	0	0.5	1346915.6	480919.2	576.5
B	A7-B35-1-R	Uranium, Total	5.1	J	mg/kg	0	0.5	1346890.6	480919.2	576.4
B	A7-B35-4-R	Uranium, Total	22.2	J	mg/kg	1.5	2	1346890.6	480919.2	576.4
B	A7-B36-4-R	Uranium, Total	1.4	J	mg/kg	1.5	2	1346932.8	480919.7	576.4
B	A7-B37-1-R	Uranium, Total	58.8	-	mg/kg	0	0.5	1346919.7	481019.1	576.1
B	A7-B38-1-R	Uranium, Total	26.9	J	mg/kg	0	0.5	1346894.7	481019.1	575.7
B	A7-B39-1-R	Uranium, Total	7.3	-	mg/kg	0	0.5	1346944.7	481019.1	576.7
B	A7-B39-4-R	Uranium, Total	2.0	-	mg/kg	1.5	2	1346944.7	481019.1	576.7
B	A7-B40-1-R	Uranium, Total	18.3	-	mg/kg	0	0.5	1346987.5	481066.9	575.0
B	A7-B41-1-R	Uranium, Total	7.6	-	mg/kg	0	0.5	1346987.2	481048.3	576.4
B	A7-B42-5-R	Uranium, Total	80.5	-	mg/kg	2	2.5	1346988.0	481094.2	574.3
B	A7-B45-4-R	Uranium, Total	10.7	-	mg/kg	1.5	2	1347134.6	480970.2	576.0
B	A7-B47-3-R	Uranium, Total	3.1	-	mg/kg	1	1.5	1347239.7	480932.1	576.1
B	A7-B50-3-R	Uranium, Total	2.2	-	mg/kg	1	1.5	1347281.4	480830.5	576.7
B	A7-B51-3-R	Uranium, Total	2.5	J	mg/kg	1	1.5	1347235.1	480822.3	576.7

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
B	A7-B57-1-R	Uranium, Total	6.6	-	mg/kg	0	0.5	1347393.1	480695.8	578.2
B	A7-B57-4-R	Uranium, Total	5.1	-	mg/kg	1.5	2	1347393.1	480695.8	578.2
B	A7-B57-7-R	Uranium, Total	8.0	-	mg/kg	3	3.5	1347393.1	480695.8	578.2
B	A7-B58-1-R	Uranium, Total	13.6	-	mg/kg	0	0.5	1347504.8	480712.9	577.5
B	A7-B58-3-R	Uranium, Total	5.6	J	mg/kg	1	1.5	1347504.8	480712.9	577.5
B	A7-B59-3-R	Uranium, Total	3.4	J	mg/kg	1	1.5	1347507.6	480730.6	575.4
B	A7-B60-1-R	Uranium, Total	28.2	J	mg/kg	0	0.5	1347503.0	480689.8	578.1
B	A7-B60-3-R	Uranium, Total	9.6	J	mg/kg	1	1.5	1347503.0	480689.8	578.1
B	A7-B60-6-R	Uranium, Total	2.3	J	mg/kg	2.5	3	1347503.0	480689.8	578.1
B	A7-B61-1-R	Uranium, Total	2.2	-	mg/kg	0	0.5	1347702.6	480695.7	575.6
B	A7-B63-1-R	Uranium, Total	11.9	-	mg/kg	0	0.5	1347702.6	480670.7	576.2
B	A7-B63-4-R	Uranium, Total	5.2	-	mg/kg	1.5	2	1347702.6	480670.7	576.2
B	A7-B63-7-R	Uranium, Total	1.9	-	mg/kg	3	3.5	1347702.6	480670.7	576.2
B	A7-B63A-1-R	Uranium, Total	21.2	NV	mg/kg	0	0.5	1347645.8	480672.4	575.2
B	A7-B64-1-R	Uranium, Total	3.6	-	mg/kg	0	0.5	1347807.1	480674.8	576.0
B	A7-B64-3-R	Uranium, Total	2.2	-	mg/kg	1	1.5	1347807.1	480674.8	576.0
B	A7-B64-6-R	Uranium, Total	2.1	-	mg/kg	2.5	3	1347807.1	480674.8	576.0
B	A7-B65-1-R	Uranium, Total	3.5	-	mg/kg	0	0.5	1347802.9	480579.4	576.3
B	A7-B65-4-R	Uranium, Total	1.9	-	mg/kg	1.5	2	1347802.9	480579.4	576.3
B	A7-B66-3-R	Uranium, Total	3.4	-	mg/kg	1	1.5	1347785.0	480478.8	576.9
B	A7-B67-4-R	Uranium, Total	4.4	-	mg/kg	1.5	2	1347810.3	480448.0	576.2
B	A7-B70-3-R	Uranium, Total	1.1	-	mg/kg	1	1.5	1347806.5	480212.8	574.7
B	A7-B70-6-R	Uranium, Total	1.5	-	mg/kg	2.5	3	1347806.5	480212.8	574.7
B	A7-B72-2-R	Uranium, Total	2.4	-	mg/kg	0.5	1	1346873.1	480451.8	572.4
		Mean	**12.4**							
		Maximum	**94.2**							
		Minimum	**1.1**							
C	A7-C6-1-R	Uranium, Total	31.7	-	mg/kg	0	0.5	1346869.7	480927.6	575.8
C	A7-C9-1-R	Uranium, Total	5.6	-	mg/kg	0	0.5	1346869.7	480977.6	576.6
C	A7-C12-1-R	Uranium, Total	18.0	-	mg/kg	0	0.5	1346869.7	481027.6	576.0
		Mean	**18.4**							
		Maximum	**31.7**							
		Minimum	**5.6**							
D	A7-D1-3-R	Uranium, Total	4.3	J	mg/kg	1	1.5	1347192.0	480249.0	571.2
D	A7-D1-6-R	Uranium, Total	11.5	J	mg/kg	2.5	3	1347192.0	480249.0	571.2
D	A7-D1-10-R	Uranium, Total	1.7	-	mg/kg	4.5	5	1347192.0	480249.0	571.2
D	A7-D2-3-R	Uranium, Total	6.0	-	mg/kg	1	1.5	1347220.1	480284.8	572.5
D	A7-D2-6-R	Uranium, Total	1.6	-	mg/kg	2.5	3	1347220.1	480284.8	572.5
D	A7-D2-10-R	Uranium, Total	1.6	-	mg/kg	4.5	5	1347220.1	480284.8	572.5
D	A7-D3-1-R	Uranium, Total	5.3	-	mg/kg	0	0.5	1347173.4	480336.8	575.4
D	A7-D3-10-R	Uranium, Total	1.6	-	mg/kg	4.5	5	1347173.4	480336.8	575.4
D	A7-D3-3-R	Uranium, Total	4.7	-	mg/kg	1	1.5	1347173.4	480336.8	575.4
D	A7-D3-6-R	Uranium, Total	3.2	-	mg/kg	2.5	3	1347173.4	480336.8	575.4
D	A7-D4-10-R	Uranium, Total	1.5	-	mg/kg	4.5	5	1347228.7	480379.0	574.3
D	A7-D4-3-R	Uranium, Total	1.4	-	mg/kg	1	1.5	1347228.7	480379.0	574.3
D	A7-D4-6-R	Uranium, Total	2.3	-	mg/kg	2.5	3	1347228.7	480379.0	574.3
D	A7-D5-1-R	Uranium, Total	10.7	-	mg/kg	0	0.5	1347179.3	480421.9	576.0
D	A7-D5-10-R	Uranium, Total	1.7	-	mg/kg	4.5	5	1347179.3	480421.9	576.0
D	A7-D5-3-R	Uranium, Total	2.2	-	mg/kg	1	1.5	1347179.3	480421.9	576.0
D	A7-D5-6-R	Uranium, Total	1.8	-	mg/kg	2.5	3	1347179.3	480421.9	576.0
D	A7-D6-1-R	Uranium, Total	17.1	-	mg/kg	0	0.5	1347217.7	480603.2	578.5
D	A7-D6-10-R	Uranium, Total	2.1	-	mg/kg	4.5	5	1347217.7	480603.2	578.5
D	A7-D6-3-R	Uranium, Total	2.0	-	mg/kg	1	1.5	1347217.7	480603.2	578.5
D	A7-D6-6-R	Uranium, Total	2.5	-	mg/kg	2.5	3	1347217.7	480603.2	578.5

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
D	A7-D7-1-R	Uranium, Total	19.5	-	mg/kg	0	0.5	1347233.9	480633.5	578.2
D	A7-D7-10-R	Uranium, Total	2.4	J	mg/kg	4.5	5	1347233.9	480633.5	578.2
D	A7-D7-3-R	Uranium, Total	18.5	-	mg/kg	1	1.5	1347233.9	480633.5	578.2
D	A7-D7-6-R	Uranium, Total	2.2	-	mg/kg	2.5	3	1347233.9	480633.5	578.2
D	A7-D8-1-R	Uranium, Total	15.0	J	mg/kg	0	0.5	1347395.1	480675.6	578.6
D	A7-D10-1-R	Uranium, Total	48.3	J	mg/kg	0	0.5	1347200.2	480701.0	577.2
D	A7-D10-2B-R	Uranium, Total	59.3	J	mg/kg			1347200.2	480701.0	577.2
D	A7-D10-3B-R	Uranium, Total	49.9	J	mg/kg			1347200.2	480701.0	577.2
D	A7-D11-1-R	Uranium, Total	66.8	J	mg/kg	0	0.5	1347118.0	480731.1	577.7
D	A7-D18-10-R	Uranium, Total	1.1	-	mg/kg	4.5	5	1346953.4	480847.4	577.4
D	A7-D18-3-R	Uranium, Total	4.4	-	mg/kg	1	1.5	1346953.4	480847.4	577.4
D	A7-D18-6-R	Uranium, Total	1.5	-	mg/kg	2.5	3	1346953.4	480847.4	577.4
D	A7-D19-1-R	Uranium, Total	1.7	-	mg/kg	0	0.5	1347043.6	480844.6	577.1
D	A7-D19-10-R	Uranium, Total	1.5	J	mg/kg	4.5	5	1347043.6	480844.6	577.1
D	A7-D19-3-R	Uranium, Total	1.3	-	mg/kg	1	1.5	1347043.6	480844.6	577.1
D	A7-D19-6-R	Uranium, Total	1.2	J	mg/kg	2.5	3	1347043.6	480844.6	577.1
D	A7-D20-10-R	Uranium, Total	1.2	-	mg/kg	4.5	5	1347044.5	480885.0	577.6
D	A7-D20-3-R	Uranium, Total	2.5	-	mg/kg	1	1.5	1347044.5	480885.0	577.6
D	A7-D20-6-R	Uranium, Total	1.6	-	mg/kg	2.5	3	1347044.5	480885.0	577.6
D	A7-D21-10-R	Uranium, Total	1.4	-	mg/kg	4.5	5	1346955.8	480886.7	578.3
D	A7-D21-3-R	Uranium, Total	4.4	-	mg/kg	1	1.5	1346955.8	480886.7	578.3
D	A7-D21-6-R	Uranium, Total	1.6	-	mg/kg	2.5	3	1346955.8	480886.7	578.3
D	A7-D22-1-R	Uranium, Total	13.0	-	mg/kg	0	0.5	1346962.8	480802.3	578.0
D	A7-D22-10-R	Uranium, Total	1.4	-	mg/kg	4.5	5	1346962.8	480802.3	578.0
D	A7-D22-3-R	Uranium, Total	8.6	-	mg/kg	1	1.5	1346962.8	480802.3	578.0
D	A7-D22-6-R	Uranium, Total	1.9	-	mg/kg	2.5	3	1346962.8	480802.3	578.0
D	A7-D23-1-R	Uranium, Total	20.7	-	mg/kg	0	0.5	1346962.9	480782.4	577.9
D	A7-D23-10-R	Uranium, Total	1.4	J	mg/kg	4.5	5	1346962.9	480782.4	577.9
D	A7-D23-3-R	Uranium, Total	3.8	-	mg/kg	1	1.5	1346962.9	480782.4	577.9
D	A7-D23-6-R	Uranium, Total	1.4	J	mg/kg	2.5	3	1346962.9	480782.4	577.9
D	A7-D24-1-R	Uranium, Total	14.0	J	mg/kg	0	0.5	1346962.0	480729.2	576.8
D	A7-D24-10-R	Uranium, Total	1.6	J	mg/kg	4.5	5	1346962.0	480729.2	576.8
D	A7-D24-3-R	Uranium, Total	4.9	J	mg/kg	1	1.5	1346962.0	480729.2	576.8
D	A7-D24-6-R	Uranium, Total	2.0	J	mg/kg	2.5	3	1346962.0	480729.2	576.8
D	A7-D25-1-R	Uranium, Total	18.7	-	mg/kg	0	0.5	1346978.3	480709.7	578.7
D	A7-D25-10-R	Uranium, Total	1.6	J	mg/kg	4.5	5	1346978.3	480709.7	578.7
D	A7-D25-3-R	Uranium, Total	4.9	-	mg/kg	1	1.5	1346978.3	480709.7	578.7
D	A7-D25-6-R	Uranium, Total	3.2	-	mg/kg	2.5	3	1346978.3	480709.7	578.7
D	A7-D26-1-R	Uranium, Total	30.8	-	mg/kg	0	0.5	1347060.7	480724.0	578.4
D	A7-D26-10-R	Uranium, Total	4.2	J	mg/kg	4.5	5	1347060.7	480724.0	578.4
D	A7-D26-3-R	Uranium, Total	4.2	J	mg/kg	1	1.5	1347060.7	480724.0	578.4
D	A7-D26-6-R	Uranium, Total	1.4	J	mg/kg	2.5	3	1347060.7	480724.0	578.4
D	A7-D27-1-R	Uranium, Total	1.6	-	mg/kg	0	0.5	1347065.2	480801.2	578.3
D	A7-D27-10-R	Uranium, Total	1.8	J	mg/kg	4.5	5	1347065.2	480801.2	578.3
D	A7-D27-3-R	Uranium, Total	2.3	J	mg/kg	1	1.5	1347065.2	480801.2	578.3
D	A7-D27-6-R	Uranium, Total	1.8	J	mg/kg	2.5	3	1347065.2	480801.2	578.3
		Mean	**8.1**							
		Maximum	**66.8**							
		Minimum	**1.1**							
E	A7-E1-1-R	Uranium, Total	4.1	-	mg/kg	0	0.5	1347835.4	480490.3	576.0
E	A7-E2-1-R	Uranium, Total	5.2	-	mg/kg	0	0.5	1347876.0	480487.2	576.0
E	A7-E3-1-R	Uranium, Total	4.7	-	mg/kg	0	0.5	1347920.2	480486.2	576.0
E	A7-E4-1-R	Uranium, Total	8.4	-	mg/kg	0	0.5	1347964.4	480482.0	576.0
E	A7-E5-2-R	Uranium, Total	3.2	J	mg/kg	0.5	1	1347858.5	480577.9	579.4
E	A7-E6-9-R	Uranium, Total	1.9	J	mg/kg	4	4.5	1347880.8	480575.3	580.9
E	A7-E7-7-R	Uranium, Total	2.8	J	mg/kg	3	3.5	1347902.3	480572.9	580.8
E	A7-E9-1-R	Uranium, Total	6.9	-	mg/kg	0	0.5	1347943.7	480588.8	577.7

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
E	A7-E9-3-R	Uranium, Total	3.6	J	mg/kg	1	1.5	1347943.7	480588.8	577.7
E	A7-E9-5-R	Uranium, Total	2.6	J	mg/kg	2	2.5	1347943.7	480588.8	577.7
E	A7-E10-2-R	Uranium, Total	12.0	J	mg/kg	0.5	1	1347841.1	480644.9	579.0
E	A7-E11-1-R	Uranium, Total	7.2	J	mg/kg	0	0.5	1347952.8	480631.6	577.1
E	A7-E11-3-R	Uranium, Total	2.4	J	mg/kg	1	1.5	1347952.8	480631.6	577.1
E	A7-E12-R	Uranium, Total	5.0	-	mg/kg	0	0.5	1347894.8	480672.1	578.1
E	A7-E13-R	Uranium, Total	4.2	-	mg/kg	0	0.5	1347917.8	480668.6	577.5
E	A7-E14-R	Uranium, Total	4.4	-	mg/kg	0	0.5	1347944.4	480646.9	579.0
E	A7-E15-R	Uranium, Total	5.0	-	mg/kg	0	0.5	1347944.4	480606.8	579.5
E	A7-E16-R	Uranium, Total	6.8	J	mg/kg	0	0.5	1347938.4	480578.4	580.0
E	A7-E17-R	Uranium, Total	3.9	J	mg/kg	0	0.5	1347916.0	480595.9	580.3
E	A7-E18-R	Uranium, Total	2.7	J	mg/kg	0	0.5	1347897.9	480603.6	578.9
E	A7-E19-R	Uranium, Total	4.8	J	mg/kg	0	0.5	1347887.0	480614.8	579.2
E	A7-E20-R	Uranium, Total	7.2	J	mg/kg	0	0.5	1347886.2	480631.8	578.8
E	A7-E21-R	Uranium, Total	5.8	J	mg/kg	0	0.5	1347879.4	480655.6	579.4
		Mean	**5.0**							
		Maximum	**12.0**							
		Minimum	**1.9**							
F	A7-F1-3-R	Uranium, Total	2.4	-	mg/kg	1	1.5	1347300.0	480200.0	572.2
F	A7-F1-6-R	Uranium, Total	3.4	-	mg/kg	2.5	3	1347300.0	480200.0	572.2
F	A7-F1-10-R	Uranium, Total	3.3	-	mg/kg	4.5	5	1347300.0	480200.0	572.2
F	A7-F2-10-R	Uranium, Total	2.0	J	mg/kg	4.5	5	1347400.0	480200.0	573.8
F	A7-F2-3-R	Uranium, Total	3.0	-	mg/kg	1	1.5	1347400.0	480200.0	573.8
F	A7-F2-6-R	Uranium, Total	1.7	-	mg/kg	2.5	3	1347400.0	480200.0	573.8
F	A7-F3-10-R	Uranium, Total	6.0	J	mg/kg	4.5	5	1347400.0	480300.0	575.0
F	A7-F3-3-R	Uranium, Total	4.0	J	mg/kg	1	1.5	1347400.0	480300.0	575.0
F	A7-F3-6-R	Uranium, Total	3.1	J	mg/kg	2.5	3	1347400.0	480300.0	575.0
F	A7-F4-10-R	Uranium, Total	9.8	J	mg/kg	4.5	5	1347300.0	480300.0	575.0
F	A7-F4-3-R	Uranium, Total	2.7	-	mg/kg	1	1.5	1347300.0	480300.0	575.0
F	A7-F4-6-R	Uranium, Total	2.2	J	mg/kg	2.5	3	1347300.0	480300.0	575.0
		Mean	**3.6**							
		Maximum	**9.8**							
		Minimum	**1.7**							
A	A7-A1-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347706.0	480628.4	584.8
A	A7-A1-14-R	Technetium-99	1.4	U	pCi/g	6.5	7	1347706.0	480628.4	584.8
A	A7-A2-2-R	Technetium-99	1.1	U	pCi/g	0.5	1	1347711.2	480597.8	587.9
A	A7-A2-6-R	Technetium-99	1.0	U	pCi/g	2.5	3	1347711.2	480597.8	587.9
A	A7-A3-9-R	Technetium-99	1.2	U	pCi/g	4	4.5	1347710.3	480554.2	585.4
A	A7-A3-14-R	Technetium-99	1.2	U	pCi/g	6.5	7	1347710.3	480554.2	585.4
A	A7-A4-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347716.2	480518.8	584.2
A	A7-A4-14-R	Technetium-99	1.2	U	pCi/g	6.5	7	1347716.2	480518.8	584.2
A	A7-A5-4-R	Technetium-99	1.0	U	pCi/g	1.5	2	1347774.9	480628.6	580.3
A	A7-A5-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347774.9	480628.6	580.3
A	A7-A6-5-R	Technetium-99	1.5	-	pCi/g	2	2.5	1347772.2	480587.1	580.4
A	A7-A6-7-R	Technetium-99	1.3	U	pCi/g	3	3.5	1347772.2	480587.1	580.4
A	A7-A7-5-R	Technetium-99	2.1	U	pCi/g	2	2.5	1347770.6	480545.3	585.3
A	A7-A7-17-R	Technetium-99	1.2	U	pCi/g	8	8.5	1347770.6	480545.3	585.3
A	A7-A8-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347761.8	480504.5	581.5
A	A7-A8-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347761.8	480504.5	581.5
		Mean	**1.3**							
		Maximum	**2.1**							
		Minimum	**1.0**							

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

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Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
B	A7-B1-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347680.6	480150.8	572.5
B	A7-B2-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347678.2	480133.5	572.5
B	A7-B2-5-R	Technetium-99	1.2	U	pCi/g	2	2.5	1347678.2	480133.5	572.5
B	A7-B3-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347681.0	480174.0	573.1
B	A7-B3-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347681.0	480174.0	573.1
B	A7-B3-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347681.0	480174.0	573.1
B	A7-B4-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347480.7	480155.7	571.5
B	A7-B5-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347480.7	480130.7	571.6
B	A7-B5-3-R	Technetium-99	1.0	U	pCi/g	1	1.5	1347480.7	480130.7	571.6
B	A7-B6-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347480.7	480180.7	576.9
B	A7-B6-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347480.7	480180.7	576.9
B	A7-B6-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347480.7	480180.7	576.9
B	A7-B7-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347280.7	480160.7	569.4
B	A7-B8-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347280.7	480135.7	564.1
B	A7-B9-1-R	Technetium-99	1.2	J	pCi/g	0	0.5	1347285.8	480191.5	571.1
B	A7-B9-4-R	Technetium-99	1.3	J	pCi/g	1.5	2	1347285.8	480191.5	571.1
B	A7-B9-7-R	Technetium-99	1.1	U	pCi/g	3	3.5	1347285.8	480191.5	571.1
B	A7-B10-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347080.8	480165.6	564.9
B	A7-B11-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1347080.4	480153.1	562.8
B	A7-B12-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347080.8	480190.6	568.5
B	A7-B12-5-R	Technetium-99	1.1	U	pCi/g	2	2.5	1347080.8	480190.6	568.5
B	A7-B13-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1346880.8	480170.5	563.5
B	A7-B14-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1346880.2	480157.3	562.2
B	A7-B15-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346880.8	480195.5	566.3
B	A7-B16-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346832.1	480325.3	568.9
B	A7-B17-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346807.1	480325.3	568.0
B	A7-B17-4-R	Technetium-99	1.0	U	pCi/g	1.5	2	1346807.1	480325.3	568.0
B	A7-B18-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346857.1	480325.3	570.0
B	A7-B19-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1346847.8	480424.1	571.8
B	A7-B20-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346822.8	480424.1	570.2
B	A7-B21-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346869.2	480424.3	571.8
B	A7-B22-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346862.5	480523.0	574.5
B	A7-B23-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346837.5	480523.0	571.0
B	A7-B24-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346887.5	480523.0	575.0
B	A7-B25-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346877.2	480621.9	575.5
B	A7-B26-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346852.2	480621.9	574.9
B	A7-B27-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346902.2	480621.9	575.9
B	A7-B28-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1346891.9	480720.8	576.1
B	A7-B29-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346866.9	480720.8	576.1
B	A7-B29-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1346866.9	480720.8	576.1
B	A7-B30-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1346905.8	480720.8	576.2
B	A7-B30-4-R	Technetium-99	1.2	U	pCi/g	1.5	2	1346905.8	480720.8	576.2
B	A7-B31-1-R	Technetium-99	1.3	-	pCi/g	0	0.5	1346906.6	480819.7	576.4
B	A7-B32-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346881.6	480819.7	576.4
B	A7-B32-3-R	Technetium-99	1.0	U	pCi/g	1	1.5	1346881.6	480819.7	576.4
B	A7-B33-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346931.6	480819.7	576.5
B	A7-B33-3-R	Technetium-99	1.0	U	pCi/g	1	1.5	1346931.6	480819.7	576.5
B	A7-B34-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346915.6	480919.2	576.5
B	A7-B35-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346890.6	480919.2	576.4
B	A7-B35-4-R	Technetium-99	1.1	U	pCi/g	1.5	2	1346890.6	480919.2	576.4
B	A7-B36-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346932.8	480919.7	576.4
B	A7-B36-4-R	Technetium-99	1.1	U	pCi/g	1.5	2	1346932.8	480919.7	576.4
B	A7-B37-1-R	Technetium-99	1.8	U	pCi/g	0	0.5	1346919.7	481019.1	576.1
B	A7-B38-1-R	Technetium-99	1.4	U	pCi/g	0	0.5	1346894.7	481019.1	575.7
B	A7-B39-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346944.7	481019.1	576.7
B	A7-B39-4-R	Technetium-99	1.4	U	pCi/g	1.5	2	1346944.7	481019.1	576.7
B	A7-B40-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346987.5	481066.9	575.0
B	A7-B41-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346987.2	481048.3	576.4
B	A7-B42-1-R	Technetium-99	1.4	U	pCi/g	0	0.5	1346988.0	481094.2	574.3
B	A7-B42-5-R	Technetium-99	1.3	U	pCi/g	2	2.5	1346988.0	481094.2	574.3

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
B	A7-B43-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1347152.7	480987.4	575.2
B	A7-B44-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347170.8	481004.6	572.5
B	A7-B45-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347134.6	480970.2	576.0
B	A7-B45-4-R	Technetium-99	1.2	U	pCi/g	1.5	2	1347134.6	480970.2	576.0
B	A7-B46-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347221.6	480914.9	576.1
B	A7-B47-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1347239.7	480932.1	576.1
B	A7-B47-3-R	Technetium-99	1.3	U	pCi/g	1	1.5	1347239.7	480932.1	576.1
B	A7-B48-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347203.4	480897.6	576.1
B	A7-B49-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347256.7	480826.4	576.2
B	A7-B50-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347281.4	480830.5	576.7
B	A7-B50-3-R	Technetium-99	1.5	U	pCi/g	1	1.5	1347281.4	480830.5	576.7
B	A7-B51-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347235.1	480822.3	576.7
B	A7-B51-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347235.1	480822.3	576.7
B	A7-B52-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347310.3	480745.4	576.4
B	A7-B53-1-R	Technetium-99	0.9	U	pCi/g	0	0.5	1347323.6	480765.6	573.4
B	A7-B54-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347296.1	480723.7	577.3
B	A7-B55-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347406.2	480720.4	576.8
B	A7-B56-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347409.9	480745.2	573.8
B	A7-B57-1-R	Technetium-99	0.8	U	pCi/g	0	0.5	1347393.1	480695.8	578.2
B	A7-B57-4-R	Technetium-99	1.1	J	pCi/g	1.5	2	1347393.1	480695.8	578.2
B	A7-B57-7-R	Technetium-99	0.8	U	pCi/g	3	3.5	1347393.1	480695.8	578.2
B	A7-B58-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347504.8	480712.9	577.5
B	A7-B58-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347504.8	480712.9	577.5
B	A7-B59-1-R	Technetium-99	1.5	J	pCi/g	0	0.5	1347507.6	480730.6	575.4
B	A7-B59-3-R	Technetium-99	1.3	J	pCi/g	1	1.5	1347507.6	480730.6	575.4
B	A7-B60-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347503.0	480689.8	578.1
B	A7-B60-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347503.0	480689.8	578.1
B	A7-B60-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347503.0	480689.8	578.1
B	A7-B61-1-R	Technetium-99	0.7	U	pCi/g	0	0.5	1347702.6	480695.7	575.6
B	A7-B62-1-R	Technetium-99	0.7	U	pCi/g	0	0.5	1347702.2	480729.7	577.6
B	A7-B62-4-R	Technetium-99	1.4	-	pCi/g	1.5	2	1347702.2	480729.7	577.6
B	A7-B63-1-R	Technetium-99	0.8	J	pCi/g	0	0.5	1347702.6	480670.7	576.2
B	A7-B63-4-R	Technetium-99	0.8	J	pCi/g	1.5	2	1347702.6	480670.7	576.2
B	A7-B63-7-R	Technetium-99	1.6	-	pCi/g	3	3.5	1347702.6	480670.7	576.2
B	A7-B63A-1-R	Technetium-99	1.2	UNV	pCi/g	0	0.5	1347645.8	480672.4	575.2
B	A7-B64-1-R	Technetium-99	0.9	U	pCi/g	0	0.5	1347807.1	480674.8	576.0
B	A7-B64-3-R	Technetium-99	0.9	J	pCi/g	1	1.5	1347807.1	480674.8	576.0
B	A7-B64-6-R	Technetium-99	2.2	-	pCi/g	2.5	3	1347807.1	480674.8	576.0
B	A7-B65-1-R	Technetium-99	8.3	-	pCi/g	0	0.5	1347802.9	480579.4	576.3
B	A7-B65-4-R	Technetium-99	1.0	J	pCi/g	1.5	2	1347802.9	480579.4	576.3
B	A7-B66-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347785.0	480478.8	576.9
B	A7-B66-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347785.0	480478.8	576.9
B	A7-B67-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347810.3	480448.0	576.2
B	A7-B67-4-R	Technetium-99	1.0	U	pCi/g	1.5	2	1347810.3	480448.0	576.2
B	A7-B68-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347759.5	480456.8	576.3
B	A7-B69-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347786.8	480240.3	573.7
B	A7-B70-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347806.5	480212.8	574.7
B	A7-B70-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347806.5	480212.8	574.7
B	A7-B70-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347806.5	480212.8	574.7
B	A7-B71-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347766.2	480241.4	573.0
B	A7-B72-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346873.1	480451.8	572.4
B	A7-B72-2-R	Technetium-99	1.4	U	pCi/g	0.5	1	1346873.1	480451.8	572.4
		Mean	1.2							
		Maximum	8.3							
		Minimum	0.7							
C	A7-C1-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1346859.2	480775.6	575.3
C	A7-C2-1-R	Technetium-99	1.6	U	pCi/g	0	0.5	1346857.9	480826.3	576.3
C	A7-C3-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346838.6	480877.6	576.4

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
C	A7-C4-1-R	Technetium-99	2.4	-	pCi/g	0	0.5	1346869.7	480877.6	576.6
C	A7-C5-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346838.6	480927.6	575.8
C	A7-C6-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1346869.7	480927.6	575.8
C	A7-C7-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346807.6	480977.6	572.2
C	A7-C8-1-R	Technetium-99	1.6	U	pCi/g	0	0.5	1346838.6	480977.6	575.2
C	A7-C9-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1346869.7	480977.6	576.6
C	A7-C10-1-R	Technetium-99	1.5	U	pCi/g	0	0.5	1346807.6	481027.6	570.0
C	A7-C11-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1346838.6	481027.6	572.8
C	A7-C12-1-R	Technetium-99	1.4	U	pCi/g	0	0.5	1346869.7	481027.6	576.0
		Mean	**1.4**							
		Maximum	**2.4**							
		Minimum	**1.1**							
D	A7-D1-10-R	Technetium-99	1.1	U	pCi/g	4.5	5	1347192.0	480249.0	571.2
D	A7-D1-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347192.0	480249.0	571.2
D	A7-D1-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347192.0	480249.0	571.2
D	A7-D1-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347192.0	480249.0	571.2
D	A7-D2-1-R	Technetium-99	1.2	J	pCi/g	0	0.5	1347220.1	480284.8	572.5
D	A7-D2-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347220.1	480284.8	572.5
D	A7-D2-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347220.1	480284.8	572.5
D	A7-D2-10-R	Technetium-99	1.1	U	pCi/g	4.5	5	1347220.1	480284.8	572.5
D	A7-D3-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347173.4	480336.8	575.4
D	A7-D3-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347173.4	480336.8	575.4
D	A7-D3-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347173.4	480336.8	575.4
D	A7-D3-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347173.4	480336.8	575.4
D	A7-D4-10-R	Technetium-99	1.1	U	pCi/g	4.5	5	1347228.7	480379.0	574.3
D	A7-D4-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347228.7	480379.0	574.3
D	A7-D4-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347228.7	480379.0	574.3
D	A7-D4-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347228.7	480379.0	574.3
D	A7-D5-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347179.3	480421.9	576.0
D	A7-D5-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347179.3	480421.9	576.0
D	A7-D5-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347179.3	480421.9	576.0
D	A7-D5-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347179.3	480421.9	576.0
D	A7-D6-6-R	Technetium-99	1.3	U	pCi/g	2.5	3	1347217.7	480603.2	578.5
D	A7-D6-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347217.7	480603.2	578.5
D	A7-D6-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347217.7	480603.2	578.5
D	A7-D6-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347217.7	480603.2	578.5
D	A7-D7-10-R	Technetium-99	1.0	U	pCi/g	4.5	5	1347233.9	480633.5	578.2
D	A7-D7-1-R	Technetium-99	1.8	U	pCi/g	0	0.5	1347233.9	480633.5	578.2
D	A7-D7-3-R	Technetium-99	1.3	U	pCi/g	1	1.5	1347233.9	480633.5	578.2
D	A7-D7-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347233.9	480633.5	578.2
D	A7-D8-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347395.1	480675.6	578.6
D	A7-D9-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347300.1	480700.2	577.3
D	A7-D10-1-R	Technetium-99	4.3	-	pCi/g	0	0.5	1347200.2	480701.0	577.2
D	A7-D10-2B-R	Technetium-99	1.6	J	pCi/g	0.5	1	1347200.2	480701.0	577.2
D	A7-D10-3B-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347200.2	480701.0	577.2
D	A7-D11-1-R	Technetium-99	1.8	-	pCi/g	0	0.5	1347118.0	480731.1	577.7
D	A7-D12-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1347163.7	480764.4	577.0
D	A7-D13-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347199.8	480800.2	577.0
D	A7-D14-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347096.4	480807.3	576.3
D	A7-D15-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347135.6	480852.6	577.2
D	A7-D16-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347121.2	480898.0	577.2
D	A7-D17-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347125.4	480965.5	576.7
D	A7-D18-10-R	Technetium-99	1.4	U	pCi/g	4.5	5	1346953.4	480847.4	577.4
D	A7-D18-6-R	Technetium-99	2.0	U	pCi/g	2.5	3	1346953.4	480847.4	577.4
D	A7-D18-3-R	Technetium-99	1.3	U	pCi/g	1	1.5	1346953.4	480847.4	577.4
D	A7-D18-1-R	Technetium-99	1.5	U	pCi/g	0	0.5	1346953.4	480847.4	577.4
D	A7-D19-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347043.6	480844.6	577.1

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
D	A7-D19-1-R	Technetium-99	2.1	U	pCi/g	0	0.5	1347043.6	480844.6	577.1
D	A7-D19-10-R	Technetium-99	1.3	U	pCi/g	4.5	5	1347043.6	480844.6	577.1
D	A7-D19-3-R	Technetium-99	1.3	U	pCi/g	1	1.5	1347043.6	480844.6	577.1
D	A7-D20-1-R	Technetium-99	1.4	U	pCi/g	0	0.5	1347044.5	480885.0	577.6
D	A7-D20-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347044.5	480885.0	577.6
D	A7-D20-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347044.5	480885.0	577.6
D	A7-D20-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347044.5	480885.0	577.6
D	A7-D21-6-R	Technetium-99	1.4	U	pCi/g	2.5	3	1346955.8	480886.7	578.3
D	A7-D21-10-R	Technetium-99	1.4	U	pCi/g	4.5	5	1346955.8	480886.7	578.3
D	A7-D21-3-R	Technetium-99	1.3	U	pCi/g	1	1.5	1346955.8	480886.7	578.3
D	A7-D21-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1346955.8	480886.7	578.3
D	A7-D22-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1346962.8	480802.3	578.0
D	A7-D22-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1346962.8	480802.3	578.0
D	A7-D22-1-R	Technetium-99	1.4	J	pCi/g	0	0.5	1346962.8	480802.3	578.0
D	A7-D22-10-R	Technetium-99	3.6	-	pCi/g	4.5	5	1346962.8	480802.3	578.0
D	A7-D23-10-R	Technetium-99	1.4	U	pCi/g	4.5	5	1346962.9	480782.4	577.9
D	A7-D23-6-R	Technetium-99	1.3	U	pCi/g	2.5	3	1346962.9	480782.4	577.9
D	A7-D23-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1346962.9	480782.4	577.9
D	A7-D23-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1346962.9	480782.4	577.9
D	A7-D24-6-R	Technetium-99	1.9	U	pCi/g	2.5	3	1346962.0	480729.2	576.8
D	A7-D24-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1346962.0	480729.2	576.8
D	A7-D24-3-R	Technetium-99	1.5	U	pCi/g	1	1.5	1346962.0	480729.2	576.8
D	A7-D24-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1346962.0	480729.2	576.8
D	A7-D25-6-R	Technetium-99	1.3	U	pCi/g	2.5	3	1346978.3	480709.7	578.7
D	A7-D25-3-R	Technetium-99	1.3	U	pCi/g	1	1.5	1346978.3	480709.7	578.7
D	A7-D25-10-R	Technetium-99	2.3	UJ	pCi/g	4.5	5	1346978.3	480709.7	578.7
D	A7-D25-1-R	Technetium-99	1.6	U	pCi/g	0	0.5	1346978.3	480709.7	578.7
D	A7-D26-10-R	Technetium-99	1.0	U	pCi/g	4.5	5	1347060.7	480724.0	578.4
D	A7-D26-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1347060.7	480724.0	578.4
D	A7-D26-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347060.7	480724.0	578.4
D	A7-D26-6-R	Technetium-99	1.3	U	pCi/g	2.5	3	1347060.7	480724.0	578.4
D	A7-D27-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347065.2	480801.2	578.3
D	A7-D27-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347065.2	480801.2	578.3
D	A7-D27-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347065.2	480801.2	578.3
D	A7-D27-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347065.2	480801.2	578.3
		Mean	**1.3**							
		Maximum	**4.3**							
		Minimum	**1.0**							
E	A7-E1-1-R	Technetium-99	4.2	-	pCi/g	0	0.5	1347835.4	480490.3	576.0
E	A7-E2-1-R	Technetium-99	3.7	-	pCi/g	0	0.5	1347876.0	480487.2	576.0
E	A7-E3-1-R	Technetium-99	5.4	-	pCi/g	0	0.5	1347920.2	480486.2	576.0
E	A7-E4-1-R	Technetium-99	1.5	J	pCi/g	0	0.5	1347964.4	480482.0	576.0
E	A7-E5-2-R	Technetium-99	7.1	-	pCi/g	0.5	1	1347858.5	480577.9	579.4
E	A7-E6-9-R	Technetium-99	3.2	-	pCi/g	4	4.5	1347880.8	480575.3	580.9
E	A7-E7-7-R	Technetium-99	2.2	-	pCi/g	3	3.5	1347902.3	480572.9	580.8
E	A7-E8-1-R	Technetium-99	3.3	-	pCi/g	0	0.5	1347882.7	480601.8	577.3
E	A7-E9-1-R	Technetium-99	2.3	-	pCi/g	0	0.5	1347943.7	480588.8	577.7
E	A7-E9-3-R	Technetium-99	21.0	-	pCi/g	1	1.5	1347943.7	480588.8	577.7
E	A7-E9-5-R	Technetium-99	2.8	J	pCi/g	2	2.5	1347943.7	480588.8	577.7
E	A7-E10-2-R	Technetium-99	1.1	U	pCi/g	0.5	1	1347841.1	480644.9	579.0
E	A7-E11-3-R	Technetium-99	1.2	J	pCi/g	1	1.5	1347952.8	480631.6	577.1
E	A7-E11-1-R	Technetium-99	1.2	J	pCi/g	0	0.5	1347952.8	480631.6	577.1
E	A7-E15-R	Technetium-99	1.3	J	pCi/g	0	0.5	1347894.8	480672.1	578.1
E	A7-E12-R	Technetium-99	1.5	J	pCi/g	0	0.5	1347894.8	480672.1	578.1
E	A7-E13-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347917.8	480668.6	577.5
E	A7-E14-R	Technetium-99	2.2	J	pCi/g	0	0.5	1347943.5	480646.9	579.0
E	A7-E16-R	Technetium-99	1.4	J	pCi/g	0	0.5	1347938.4	480578.4	580.0

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
E	A7-E17-R	Technetium-99	1.5	J	pCi/g	0	0.5	1347916.0	480595.9	580.3
E	A7-E18-R	Technetium-99	1.6	J	pCi/g	0	0.5	1347897.9	480603.6	578.9
E	A7-E19-R	Technetium-99	1.3	J	pCi/g	0	0.5	1347887.0	480614.8	579.2
E	A7-E20-R	Technetium-99	1.9	-	pCi/g	0	0.5	1347886.2	480631.8	578.8
E	A7-E21-R	Technetium-99	2.4	-	pCi/g	0	0.5	1347879.4	480655.6	579.4
		Mean	3.2							
		Maximum	21.0							
		Minimum	1.1							
F	A7-F1-1-R	Technetium-99	1.0	U	pCi/g	0	0.5	1347300.0	480200.0	572.2
F	A7-F1-6-R	Technetium-99	1.1	U	pCi/g	2.5	3	1347300.0	480200.0	572.2
F	A7-F1-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347300.0	480200.0	572.2
F	A7-F1-10-R	Technetium-99	1.1	U	pCi/g	4.5	5	1347300.0	480200.0	572.2
F	A7-F2-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347400.0	480200.0	573.8
F	A7-F2-6-R	Technetium-99	1.0	U	pCi/g	2.5	3	1347400.0	480200.0	573.8
F	A7-F2-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347400.0	480200.0	573.8
F	A7-F2-10-R	Technetium-99	1.0	U	pCi/g	4.5	5	1347400.0	480200.0	573.8
F	A7-F3-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347400.0	480300.0	575.0
F	A7-F3-10-R	Technetium-99	1.1	U	pCi/g	4.5	5	1347400.0	480300.0	575.0
F	A7-F3-3-R	Technetium-99	1.1	U	pCi/g	1	1.5	1347400.0	480300.0	575.0
F	A7-F3-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347400.0	480300.0	575.0
F	A7-F4-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347300.0	480300.0	575.0
F	A7-F4-6-R	Technetium-99	1.2	U	pCi/g	2.5	3	1347300.0	480300.0	575.0
F	A7-F4-10-R	Technetium-99	1.2	U	pCi/g	4.5	5	1347300.0	480300.0	575.0
F	A7-F4-3-R	Technetium-99	1.2	U	pCi/g	1	1.5	1347300.0	480300.0	575.0
F	A7-F5-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347500.1	480200.0	575.0
F	A7-F6-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347600.1	480200.0	574.4
F	A7-F7-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347700.1	480200.0	573.3
F	A7-F8-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347500.1	480300.0	575.0
F	A7-F9-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347600.1	480300.0	575.0
F	A7-F10-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347700.1	480300.0	574.5
F	A7-F11-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347300.1	480400.0	575.2
F	A7-F12-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347400.1	480400.0	575.2
F	A7-F13-1-R	Technetium-99	1.3	U	pCi/g	0	0.5	1347500.1	480400.0	575.0
F	A7-F14-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347600.1	480400.0	575.0
F	A7-F15-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347701.6	480391.5	574.8
F	A7-F16-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347299.9	480464.0	576.0
F	A7-F17-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347401.5	480460.9	575.7
F	A7-F18-1-R	Technetium-99	1.1	U	pCi/g	0	0.5	1347494.5	480439.8	575.2
F	A7-F19-1-R	Technetium-99	2.1	-	pCi/g	0	0.5	1347597.4	480435.3	574.8
F	A7-F20-1-R	Technetium-99	1.2	U	pCi/g	0	0.5	1347699.3	480428.4	574.3
		Mean	1.2							
		Maximum	2.1							
		Minimum	1.0							
B	A7-B19-1-M	Chromium	9.9	J	mg/kg	0	0.5	1346847.8	480424.1	571.8
B	A7-B20-1-M	Chromium	6.7	J	mg/kg	0	0.5	1346822.8	480424.1	570.2
B	A7-B21-1-M	Chromium	6.4	J	mg/kg	0	0.5	1346869.2	480424.3	571.8
B	A7-B22-1-M	Chromium	9.5	J	mg/kg	0	0.5	1346862.5	480523.0	574.5
B	A7-B23-1-M	Chromium	11.2	J	mg/kg	0	0.5	1346837.5	480523.0	571.0
B	A7-B24-1-M	Chromium	13.1	J	mg/kg	0	0.5	1346887.5	480523.0	575.0
B	A7-B72-1-M	Chromium	7.1	J	mg/kg	0	0.5	1346873.1	480451.8	572.4
B	A7-B72-2-M	Chromium	3.6	J	mg/kg	0.5	1	1346873.1	480451.8	572.4
		Mean	8.4							
		Maximum	13.1							

AREA 7 (SILOS PROJECT AREA) WAC ANALYTICAL SUMMARY (1998 DATA)

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
		Minimum	3.6							
C	A7-C1-1-M	Chromium	9.2	J	mg/kg	0	0.5	1346859.2	480775.6	575.3
C	A7-C2-1-M	Chromium	13.7	NV	mg/kg	0	0.5	1346857.9	480826.3	576.3
C	A7-C3-1-M	Chromium	11.0	J	mg/kg	0	0.5	1346838.6	480877.6	576.4
C	A7-C4-1-M	Chromium	9.3	NV	mg/kg	0	0.5	1346869.7	480877.6	576.6
C	A7-C5-1-M	Chromium	8.9	J	mg/kg	0	0.5	1346838.6	480927.6	575.8
C	A7-C6-1-M	Chromium	14.6	NV	mg/kg	0	0.5	1346869.7	480927.6	575.8
C	A7-C7-1-M	Chromium	7.7	J	mg/kg	0	0.5	1346807.6	480977.6	572.2
C	A7-C8-1-M	Chromium	9.6	NV	mg/kg	0	0.5	1346838.6	480977.6	575.2
C	A7-C9-1-M	Chromium	7.6	NV	mg/kg	0	0.5	1346869.7	480977.6	576.6
C	A7-C10-1-M	Chromium	12.5	NV	mg/kg	0	0.5	1346807.6	481027.6	570.0
C	A7-C11-1-M	Chromium	11.9	NV	mg/kg	0	0.5	1346838.6	481027.6	572.8
C	A7-C12-1-M	Chromium	9.7	NV	mg/kg	0	0.5	1346869.7	481027.6	576.0
		Mean	10.5							
		Maximum	14.6							
		Minimum	7.6							
E	A7-E5-2-M	Chromium	17.0	NV	mg/kg	0.5	1	1347858.5	480577.9	579.4
E	A7-E6-9-M	Chromium	11.9	NV	mg/kg	4	4.5	1347880.8	480575.3	580.9
E	A7-E7-7-M	Chromium	15.0	NV	mg/kg	3	3.5	1347902.3	480572.9	580.8
E	A7-E9-1-M	Chromium	13.9	-	mg/kg	0	0.5	1347943.7	480588.8	577.7
E	A7-E9-5-M	Chromium	20.4	-	mg/kg	2	2.5	1347943.7	480588.8	577.7
E	A7-E9-3-M	Chromium	19.0	-	mg/kg	1	1.5	1347943.7	480588.8	577.7
E	A7-E10-2-M	Chromium	12.8	NV	mg/kg	0.5	1	1347841.1	480644.9	579.0
E	A7-E11-3-M	Chromium	16.8	-	mg/kg	1	1.5	1347952.8	480631.6	577.1
E	A7-E11-1-M	Chromium	17.2	-	mg/kg	0	0.5	1347952.8	480631.6	577.1
		Mean	16.0							
		Maximum	20.4							
		Minimum	11.9							
B	A7-B19-1-M	Lead	13.5	-	mg/kg	0	0.5	1346847.8	480424.1	571.8
B	A7-B20-1-M	Lead	10.2	-	mg/kg	0	0.5	1346822.8	480424.1	570.2
B	A7-B21-1-M	Lead	10.7	-	mg/kg	0	0.5	1346869.2	480424.3	571.8
B	A7-B22-1-M	Lead	14.0	-	mg/kg	0	0.5	1346862.5	480523.0	574.5
B	A7-B23-1-M	Lead	16.2	-	mg/kg	0	0.5	1346837.5	480523.0	571.0
B	A7-B24-1-M	Lead	15.9	-	mg/kg	0	0.5	1346887.5	480523.0	575.0
B	A7-B72-1-M	Lead	9.8	-	mg/kg	0	0.5	1346873.1	480451.8	572.4
B	A7-B72-2-M	Lead	34.7	-	mg/kg	0.5	1	1346873.1	480451.8	572.4
		Mean	15.6							
		Maximum	34.7							
		Minimum	9.8							
C	A7-C1-1-M	Lead	15.1	NV	mg/kg	0	0.5	1346859.2	480775.6	575.3
C	A7-C2-1-M	Lead	21.1	NV	mg/kg	0	0.5	1346857.9	480826.3	576.3
C	A7-C3-1-M	Lead	12.7	-	mg/kg	0	0.5	1346838.6	480877.6	576.4
C	A7-C4-1-M	Lead	15.6	NV	mg/kg	0	0.5	1346869.7	480877.6	576.6
C	A7-C5-1-M	Lead	11.1	-	mg/kg	0	0.5	1346838.6	480927.6	575.8
C	A7-C6-1-M	Lead	14.6	NV	mg/kg	0	0.5	1346869.7	480927.6	575.8
C	A7-C7-1-M	Lead	10.3	-	mg/kg	0	0.5	1346807.6	480977.6	572.2
C	A7-C8-1-M	Lead	27.4	NV	mg/kg	0	0.5	1346838.6	480977.6	575.2
C	A7-C9-1-M	Lead	12.1	NV	mg/kg	0	0.5	1346869.7	480977.6	576.6
C	A7-C10-1-M	Lead	19.2	NV	mg/kg	0	0.5	1346807.6	481027.6	570.0
C	A7-C11-1-M	Lead	21.6	NV	mg/kg	0	0.5	1346838.6	481027.6	572.8
C	A7-C12-1-M	Lead	14.3	NV	mg/kg	0	0.5	1346869.7	481027.6	576.0

Area	Sample Identifier	Analyte	Result	Validation Qualifier	Units	Top Depth	Bottom Depth	Easting	Northing	Elevation
		Mean	16.3							
		Maximum	27.4							
		Minimum	10.3							
E	A7-E5-2-M	Lead	23.9	NV	mg/kg	0.5	1	1347858.5	480577.9	579.4
E	A7-E6-9-M	Lead	20.3	NV	mg/kg	4	4.5	1347880.8	480575.3	580.9
E	A7-E7-7-M	Lead	32.0	NV	mg/kg	3	3.5	1347902.3	480572.9	580.8
E	A7-E9-1-M	Lead	15.5	J	mg/kg	0	0.5	1347943.7	480588.8	577.7
E	A7-E9-3-M	Lead	22.9	J	mg/kg	1	1.5	1347943.7	480588.8	577.7
E	A7-E9-5-M	Lead	24.6	J	mg/kg	2	2.5	1347943.7	480588.8	577.7
E	A7-E10-2-M	Lead	22.5	NV	mg/kg	0.5	1	1347841.1	480644.9	579.0
E	A7-E11-1-M	Lead	18.1	J	mg/kg	0	0.5	1347952.8	480631.6	577.1
E	A7-E11-3-M	Lead	17.8	J	mg/kg	1	1.5	1347952.8	480631.6	577.1
		Mean	22.0							
		Maximum	32.0							
		Minimum	15.5							

LEGEND

Sample Identifiers are based on A7-xx-y-R or M where:

- A7 = Sample collected from Area 7 Silos Project Area
- xx = Area number A through F (see Figure 2-1) and sequential sample location number (e.g., C12).
- y = Depth code for sample interval collected. A "1" represents 0-0.5 feet, a "2" represents 0.5-1.0 feet, a "6" represents 3.5-4.0 feet and so on.
- R = Radiological Analyte(s)
- M = Metal (lead and chromium) analyses

Validation Qualifiers are as follows:

- - No validation qualifier assigned to the result
- J Estimated value
- U Below the Minimum Detectable Concentration (MDC); the MDC is reported
- NV Not Validated
- UNV Laboratory assigned "U" based on the MDC; data not validated

APPENDIX B

AREA 7 1998 *IN SITU* GAMMA SPECTROMETRY DATA SUMMARY

APPENDIX B-1
Area 7 (Silo Project Area) HPGe In-Situ Gamma Spectrometry Results
Total Uranium

SAMPLE ID	NORTHING / EASTING		SAMPLE DATE/TIME	Total U Result
A7-B1G	480310.3	1346856.8	10/13/98 2:51:22 PM	< 19.9 ppm
A7-B2G	480341.4	1346862.0	10/13/98 2:55:11 PM	< 21.4 ppm
A7-B3G	480291.5	1346806.1	10/13/98 2:33:39 PM	< 21.6 ppm
A7-B4G	480324.6	1346809.3	10/13/98 2:36:51 PM	< 25.7 ppm
A7-B5G	480360.0	1346814.0	10/13/98 2:14:23 PM	< 34.2 ppm
A7-B6G	480372.6	1346864.3	10/13/98 3:09:55 PM	< 20.9 ppm
A7-B7G	480392.4	1346819.6	10/13/98 2:19:21 PM	< 23.6 ppm
A7-B8G	480406.2	1346869.9	10/13/98 3:14:21 PM	< 22.1 ppm
A7-B9G	480423.2	1346824.5	10/13/98 2:20:25 PM	< 21.2 ppm
A7-B9G-D	480422.3	1346824.5	10/13/98 2:39:03 PM	< 21.9 ppm
A7-B10G	480439.2	1346872.5	10/13/98 3:01:15 PM	< 17.2 ppm
A7-B11G	480460.8	1346828.4	10/13/98 2:01:30 PM	< 21.9 ppm
A7-B12G	480488.5	1346831.3	10/13/98 2:00:42 PM	< 25.7 ppm
A7-B13G	480516.1	1346834.5	10/13/98 1:56:46 PM	< 26.8 ppm
A7-B14G	480553.5	1346837.8	10/13/98 11:26:16 AM	< 24.4 ppm
A7-B15G	480574.3	1346850.0	10/13/98 11:26:24 AM	< 23.9 ppm
A7-B16G	480617.5	1346856.1	10/13/98 11:07:45 AM	< 28.4 ppm
A7-B17G	480649.6	1346856.5	10/13/98 11:18:49 AM	< 24.2 ppm
A7-B18G	480680.3	1346862.2	10/13/98 10:41:12 AM	< 25.7 ppm
A7-B19G	480708.8	1346868.0	10/13/98 10:29:33 AM	< 24.1 ppm
A7-B20G	480750.0	1346870.7	10/13/98 10:42:20 AM	< 23.6 ppm
A7-B21G	480776.5	1346883.8	10/13/98 10:47:17 AM	< 25.8 ppm
A7-B22G	480812.3	1346882.0	10/13/98 10:14:18 AM	< 23.3 ppm
A7-B23-G	480786.0	1346923.2	10/12/98 3:41:25 PM	39.6 ppm
A7-B24-G	480820.1	13466933.7	10/12/98 3:30:30 PM	40.3 ppm
A7-B25-G	480845.7	1346887.5	10/12/98 3:21:03 PM	< 21.3 ppm
A7-B26G	480686.2	1346913.8	10/14/98 11:32:32 AM	37.4 ppm
A7-B27G	480652.6	1346907.7	10/14/98 11:56:32 AM	< 29.6 ppm
A7-B28G	480620.0	1346902.2	10/14/98 12:01:19 PM	46.1 ppm
A7-B29G	480588.6	1346894.3	10/14/98 12:06:47 PM	< 21.6 ppm
A7-B30G	480553.9	1346892.9	10/14/98 12:20:29 PM	45.3 ppm
A7-B31G	480523.0	1346887.1	10/14/98 12:32:43 PM	36.1 ppm
A7-B32G	480491.5	1346879.4	10/14/98 12:35:46 PM	31 ppm
A7-B33G	480465.0	1346878.9	10/14/98 12:51:51 PM	26.7 ppm
A7-B34G	480186.7	1346891.6	10/15/98 2:54:51 PM	< 23.0 ppm
A7-B35G	480162.0	1346875.8	10/15/98 3:01:35 PM	28.4 ppm
A7-B36G	480187.4	1346858.5	10/15/98 3:09:20 PM	< 21.2 ppm
A7-B37G	480161.9	1346843.3	10/15/98 2:59:41 PM	< 56.9 ppm
A7-B38-G	480188.9	1346835.1	10/15/98 3:02:31 PM	25.2 ppm
A7-B39G	480193.5	1346797.6	10/15/98 3:12:02 PM	< 20.5 ppm
A7-B40G	480224.0	1346808.0	10/15/98 3:26:13 PM	< 24.0 ppm
A7-B41G	480217.4	1346844.7	10/15/98 3:17:28 PM	< 21.9 ppm
A7-B42-G	480243.8	1346860.7	10/20/98 10:11:44 AM	31.6 ppm
A7-B42G	480243.1	1346861.8	10/15/98 3:22:06 PM	< 21.6 ppm
A7-B43G	480256.1	1346805.5	10/15/98 3:31:42 PM	< 22.7 ppm
A7-B44G	480280.3	1346806.5	10/15/98 3:36:13 PM	< 23.0 ppm
A7-B45-G	480269.1	1346855.0	10/26/98 10:32:04 AM	< 25.3 ppm

MAXIMUM RESULT FOR AREA B : 46.1 ppm

AVERAGE RESULT FOR AREA B : 17.6 ppm

SAMPLE ID	NORTHING / EASTING		SAMPLE DATE/TIME	Total U Result	
A7-C1-G	481031.1	1346752.9	10/22/98 2:17:28 PM	20.4	ppm
A7-C2-G	481031.6	1346784.4	10/22/98 3:03:39 PM	24.7	ppm
A7-C3-G	481025.1	1346829.0	10/22/98 2:12:33 PM	< 33.1	ppm
A7-C4-G	481030.2	1346834.4	10/22/98 2:21:21 PM	19.4	ppm
A7-C5-G	481002.1	1346768.0	10/22/98 2:43:05 PM	29.1	ppm
A7-C6-G	481005.0	1346749.5	10/22/98 2:29:57 PM	32.9	ppm
A7-C7-G	480997.9	1346799.8	10/22/98 2:25:40 PM	< 17.4	ppm
A7-C8-G	480992.7	1346831.7	10/22/98 2:46:10 PM	< 13.3	ppm
A7-C9-G	481011.4	1346824.0	10/22/98 2:32:16 PM	< 13.4	ppm
A7-C10-G	480966.3	1346813.4	10/22/98 2:37:57 PM	< 25.4	ppm
A7-C11-G	480977.8	1346789.5	10/22/98 3:04:17 PM	29.9	ppm
A7-C12-G	480946.7	1346835.2	10/26/98 2:35:09 PM	25.4	ppm
A7-C14-G	480922.7	1346850.9	10/26/98 2:25:39 PM	< 19.0	ppm
A7-C15-G	480945.9	1346804.1	10/22/98 3:09:34 PM	< 42.0	ppm
A7-C16-G	480911.8	1346808.1	10/22/98 3:19:26 PM	31.1	ppm
A7-C17-G	480877.1	1346812.7	10/22/98 3:17:28 PM	< 21.0	ppm
A7-C18-G	480848.2	1346818.9	10/22/98 3:36:26 PM	< 21.9	ppm
A7-C18-G-D	480848.2	1346818.9	10/22/98 3:48:46 PM	< 22.0	ppm
A7-C19-G	480817.6	1346824.1	10/22/98 3:32:23 PM	< 25.2	ppm
A7-C20-G	480781.9	1346831.1	11/2/98 12:06:46 PM	< 27.1	ppm
A7-C20-G-D	480781.9	1346831.1	11/2/98 12:14:42 PM	< 26.9	ppm
A7-C21-G	480788.3	1346852.8	10/26/98 2:45:30 PM	< 25.0	ppm
A7-C21-G-D	480788.3	1346852.8	10/26/98 2:55:00 PM	< 24.6	ppm

MAXIMUM RESULT FOR AREA C : 32.9 ppm

AVERAGE RESULT FOR AREA C : 17.0 ppm

SAMPLE ID	NORTHING / EASTING		SAMPLE DATE/TIME	Total U Result	
A7-D1-G	480450.0	1347202.7	10/14/98 2:54:41 PM	< 32.4	ppm
A7-D2-G	480483.0	1347234.0	10/14/98 3:12:40 PM	< 27.2	ppm
A7-D3-G	480444.0	1347267.7	10/14/98 3:26:51 PM	< 26.7	ppm
A7-D4-G	480442.6	1347300.4	10/14/98 3:38:20 PM	< 24.3	ppm
A7-D5G	480417.3	1347220.7	10/14/98 3:00:35 PM	< 32.1	ppm
A7-D6G	480415.6	1347251.9	10/14/98 3:14:28 PM	< 32.7	ppm
A7-D7G	480415.6	1347284.3	10/14/98 3:27:50 PM	< 30.3	ppm
A7-D8G	480413.4	1347317.5	10/14/98 3:39:51 PM	< 29.6	ppm
A7-D8G-D	480413.9	1347319.2	10/14/98 3:52:49 PM	< 29.7	ppm
A7-D9-G	480388.9	1347204.4	10/14/98 3:05:21 PM	< 32.3	ppm
A7-D10-G	480387.7	1347236.0	10/14/98 3:19:32 PM	44.2	ppm
A7-D11-G	480387.9	1347269.3	10/14/98 3:31:46 PM	< 28.1	ppm
A7-D12-G	480387.3	1347302.2	10/14/98 3:44:30 PM	< 25.9	ppm
A7-D13-G	480360.3	1347191.5	10/19/98 10:39:36 AM	< 31.8	ppm
A7-D14-G	480361.2	1347221.9	10/20/98 10:51:45 AM	< 30.4	ppm
A7-D15-G	480361.2	1347254.2	10/20/98 10:51:21 AM	< 27.8	ppm
A7-D16-G	480362.8	1347288.0	10/20/98 11:04:44 AM	< 27.9	ppm
A7-D17-G	480361.5	1347319.1	10/20/98 11:18:27 AM	< 32.4	ppm
A7-D18-G	480330.4	1347204.9	10/19/98 10:51:02 AM	< 28.7	ppm
A7-D19-G	480326.8	1347235.2	10/19/98 11:32:09 AM	33.7	ppm
A7-D20-G	480326.5	1347270.9	10/19/98 11:50:57 AM	< 28.3	ppm
A7-D21-G	480326.5	1347302.2	10/19/98 12:08:00 PM	34.1	ppm
A7-D22-G	480301.4	1347184.6	10/19/98 11:02:08 AM	< 27.1	ppm
A7-D23-G	480298.8	1347220.9	10/19/98 11:27:46 AM	< 26.8	ppm
A7-D24-G	480298.1	1347253.8	10/19/98 11:56:46 AM	< 26.9	ppm
A7-D25-G	480299.0	1347284.1	10/19/98 12:10:59 PM	< 26.3	ppm
A7-D25-GD	480296.0	1347286.4	10/19/98 2:33:39 PM	32.2	ppm
A7-D26-G	480295.1	1347317.2	10/19/98 3:05:06 PM	< 25.0	ppm
A7-D27G	480271.7	1347171.6	10/15/98 3:53:11 PM	< 28.7	ppm
A7-D28-G	480267.7	1347204.0	10/15/98 3:32:48 PM	< 27.2	ppm
A7-D29G	480271.7	1347236.3	10/15/98 3:49:51 PM	< 28.1	ppm
A7-D30-G	480272.5	1347267.3	10/19/98 3:24:49 PM	< 25.7	ppm
A7-D31-G	480270.9	1347299.6	10/19/98 3:07:47 PM	< 26.8	ppm
A7-D32-G	480240.6	1347186.4	10/19/98 11:14:39 AM	< 25.2	ppm
A7-D33-G	480240.1	1347219.3	10/19/98 11:45:24 AM	< 27.2	ppm
A7-D34-G	480241.4	1347253.3	10/19/98 12:02:54 PM	< 26.0	ppm
A7-D35-G	480241.3	1347284.9	10/19/98 2:36:01 PM	< 25.9	ppm
A7-D36-G	480240.1	1347316.0	10/19/98 2:58:15 PM	< 25.8	ppm
A7-D37-G	480219.7	1347204.6	10/20/98 10:53:02 AM	< 25.6	ppm
A7-D38-G	480218.0	1347237.7	10/20/98 11:06:20 AM	< 25.7	ppm
A7-D39-G	480218.4	1347272.3	10/20/98 11:26:18 AM	37.7	ppm
A7-D40-G	480217.3	1347303.5	10/20/98 11:13:05 AM	38.8	ppm
A7-D41-G	480187.5	1347188.5	10/20/98 11:46:11 AM	< 23.9	ppm
A7-D42-G	480188.6	1347222.0	10/20/98 11:33:36 AM	< 24.7	ppm
A7-D43-G	480188.8	1347254.7	10/20/98 11:38:35 AM	< 24.7	ppm
A7-D44-G	480189.2	1347285.4	10/20/98 11:33:05 AM	< 22.1	ppm
A7-D45-G	480188.1	1347317.6	10/20/98 11:24:33 AM	< 21.2	ppm
A7-D46-G	480919.5	1346964.9	10/20/98 3:20:26 PM	< 19.4	ppm
A7-D47-G	480905.4	1346985.1	10/20/98 2:03:15 PM	< 19.4	ppm
A7-D48-G	480852.7	1347162.2	10/22/98 10:54:25 AM	< 29.8	ppm
A7-D49-G	480864.2	1346978.6	10/20/98 2:44:49 PM	< 23.3	ppm
A7-D50-G	480879.7	1347005.1	10/20/98 2:37:54 PM	< 23.6	ppm
A7-D51-G	480896.7	1347033.1	10/20/98 2:17:35 PM	< 20.5	ppm
A7-D52-G	480863.3	1347034.4	10/20/98 2:58:34 PM	< 32.2	ppm
A7-D53-G	480881.4	1347064.2	10/20/98 2:38:47 PM	< 22.9	ppm
A7-D54-G	480844.4	1347067.1	10/20/98 2:56:10 PM	49.5	ppm

SAMPLE ID	NORTHING / EASTING		SAMPLE DATE/TIME	Total U Result	
A7-D55-G	480838.4	1347044.4	10/20/98 3:28:50 PM	< 34.2	ppm
A7-D56-G	480848.5	1347007.9	10/20/98 3:08:26 PM	< 26.7	ppm
A7-D57-G	480697.6	1347283.7	10/21/98 10:15:42 AM	< 30.6	ppm
A7-D58-G	480723.5	1347262.4	10/21/98 10:27:42 AM	< 30.6	ppm
A7-D59-G	480726.3	1347310.4	10/21/98 10:09:09 AM	< 25.0	ppm
A7-D60-G	480671.4	1347260.8	10/21/98 10:13:10 AM	< 31.8	ppm
A7-D61-G	480703.8	1347246.3	10/21/98 10:26:00 AM	50.2	ppm
A7-D62-G	480747.2	1347243.2	10/21/98 10:20:24 AM	< 28.1	ppm
A7-D63-G	480775.2	1347223.0	10/21/98 10:30:07 AM	< 30.3	ppm
A7-D64-G	480724.0	1347221.4	10/21/98 10:45:27 AM	< 32.7	ppm
A7-D65-G	480750.3	1347203.7	10/21/98 10:51:28 AM	< 35.1	ppm
A7-D66-G	480727.2	1347181.9	10/21/98 11:00:21 AM	< 42.6	ppm
A7-D67-G	480774.9	1347181.1	10/21/98 11:04:35 AM	< 35.7	ppm
A7-D68-G	480801.0	1347204.2	10/21/98 10:49:26 AM	< 28.4	ppm
A7-D68-G-D	480798.9	1347203.1	10/21/98 11:01:58 AM	< 27.5	ppm
A7-D69-G	480826.2	1347184.7	10/21/98 11:14:46 AM	< 29.1	ppm
A7-D70-G	480752.8	1347160.0	10/21/98 11:38:10 AM	< 40.5	ppm
A7-D71-G	480753.4	1347117.2	10/22/98 10:14:09 AM	< 47.7	ppm
A7-D72-G	480784.5	1347094.8	10/22/98 10:38:02 AM	97.2	ppm
A7-D73-G	480778.1	1347141.4	10/21/98 11:20:58 AM	94.4	ppm
A7-D74-G	480803.7	1347117.5	10/22/98 10:13:18 AM	80.4	ppm
A7-D75-G	480829.6	1347099.0	10/22/98 10:27:54 AM	77.9	ppm
A7-D76-G	480865.9	1347125.2	10/22/98 10:40:07 AM	56.6	ppm
A7-D77-G	480829.3	1347139.7	10/22/98 10:30:49 AM	< 34.8	ppm
A7-D78-G	480799.6	1347161.1	10/22/98 10:15:20 AM	< 32.1	ppm
A7-D79-G	480728.3	1347135.5	10/21/98 11:16:30 AM	< 42.3	ppm
A7-D80-G	480852.3	1347164.3	10/26/98 1:59:39 PM	< 27.2	ppm
A7-D81-G	480877.7	1347141.1	10/22/98 11:04:27 AM	< 30.6	ppm
A7-D82-G	480905.6	1347121.3	10/22/98 10:57:30 AM	46.9	ppm
A7-D83-G	480698.0	1347197.0	11/2/98 12:56:46 PM	35.1	ppm
A7-D84-G	480672.3	1347216.6	11/2/98 1:07:42 PM	< 26.3	ppm
A7-D85-G	480862.9	1346945.9	10/26/98 2:10:13 PM	31.1	ppm
A7-D86-G	480712.1	1347156.8	11/2/98 12:33:37 PM	< 37.5	ppm
A7-D87-G	480681.2	1347173.0	11/2/98 12:45:16 PM	< 30.0	ppm

MAXIMUM RESULT FOR AREA D : 97.2 ppm

AVERAGE RESULT FOR AREA D : 21.2 ppm

A7-E-1-G	480491.5	1347842.3	11/9/98 11:03:29 AM	< 12.8	ppm
A7-E-2-G	480513.6	1347873.8	11/9/98 11:15:10 AM	< 11.4	ppm
A7-E-4-G	480483.4	1347934.6	11/9/98 11:27:13 AM	< 11.3	ppm
A7-E-5-G	480687.5	1347825.2	11/9/98 11:41:20 AM	< 9.8	ppm

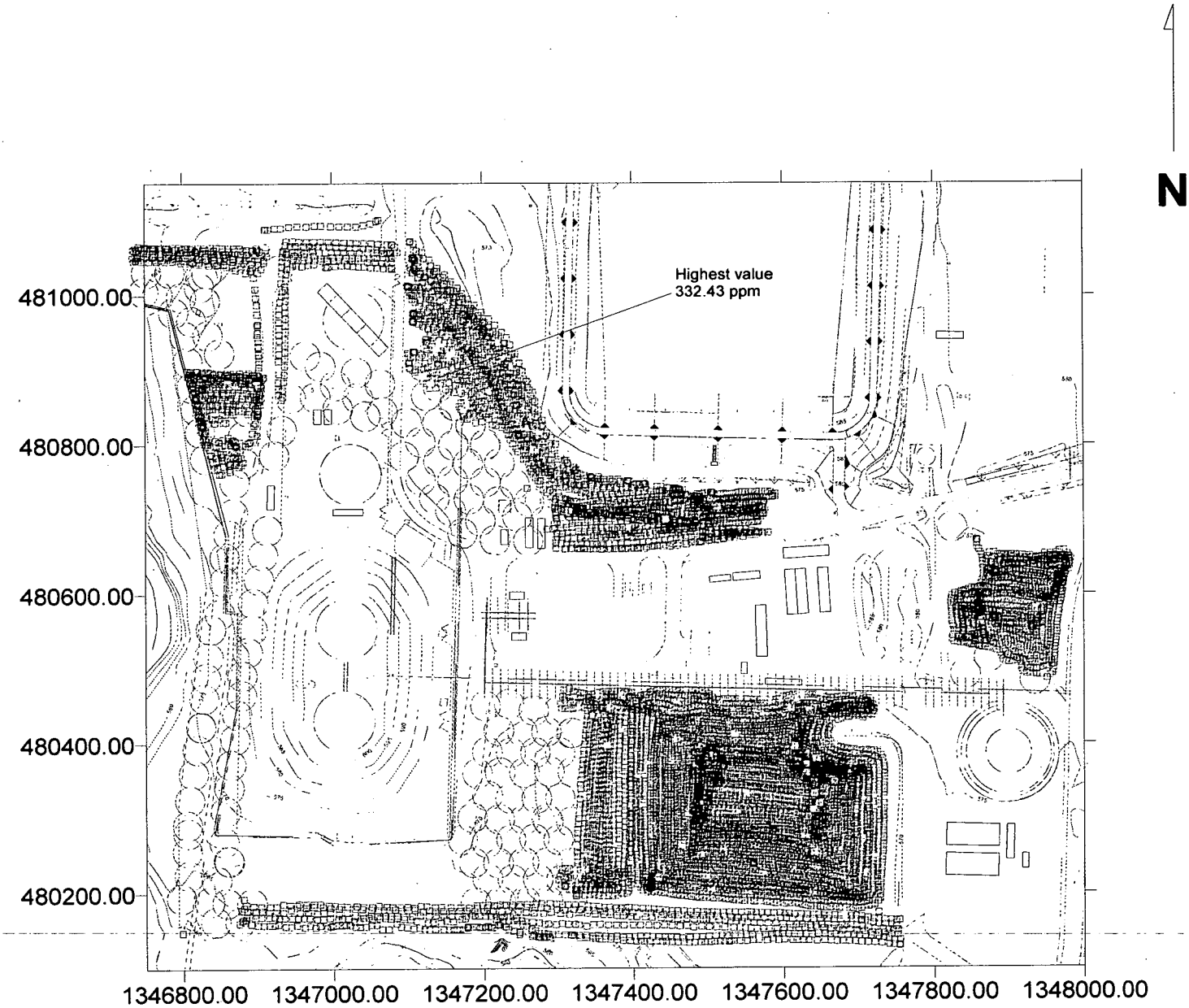
MAXIMUM RESULT FOR AREA E : N/A ppm

AVERAGE RESULT FOR AREA E : 5.7 ppm

Area 7 Moisture Corrected Total Uranium
WAC attainment sampling
RTRAK,RSS,and HPGEs used
Single Spectra Interval in ppm
Coverage Plot (2.4 Meter Field Of View for RTRAK&RSS, 6 Meter radius for HPGEs)
Measurement Dates: 10/12/98 through 11/9/98

Figure B-1

3149



Legend
ppm Uranium

- -248.64 to 99.99
- 100.00 to 299.99
- 300.00 to 499.99
- 500.00 to 720.99
- 721.00 to 10000.00

RTIMP DWG Title: A7-RTRK-RSS-HPGE-TU-1PT-MC
Project: 20500-PSP-0001
Name: WAC Attainment Sampling of Area 7
Prepared by: David Allen
File: A7_RTRK_RSS_HPGE_TU_1PT_MC.srf
Date Prepared: 11/12/98

APPENDIX B-2
Area 7 (Silo Project Area) RTRAK In-Situ Gamma Spectrometry Summary Results
Total Uranium

BATCH_NO:	562	Northing/Easting Range:	480467.9	480195.5	Total Number of Results (Spectra):	554
LOCATION:	Area F		1347400.6	1347322.9	Percentage of Total Uranium results above MDC:	5.4 %
					Maximum Total Uranium Result:	128.1 ppm
					Average MDC for all Spectra:	100.9 ppm
BATCH_NO:	563	Northing/Easting Range:	480473.1	480176.9	Total Number of Results (Spectra):	3728
LOCATION:	Area F		1347734	1347299.4	Percentage of Total Uranium results above MDC:	17.4 %
					Maximum Total Uranium Result:	263.2 ppm
					Average MDC for all Spectra:	82.0 ppm
BATCH_NO:	564	Northing/Easting Range:	480400.8	480172.6	Total Number of Results (Spectra):	888
LOCATION:	Area F		1347725.4	1347475.1	Percentage of Total Uranium results above MDC:	11.5 %
					Maximum Total Uranium Result:	130.9 ppm
					Average MDC for all Spectra:	80.1 ppm
BATCH_NO:	565	Northing/Easting Range:	480671.1	480486.2	Total Number of Results (Spectra):	1008
LOCATION:	Area E		1347982.8	1347822.6	Percentage of Total Uranium results above MDC:	27.1 %
					Maximum Total Uranium Result:	119.4 ppm
					Average MDC for all Spectra:	60.1 ppm

APPENDIX B-3
Area 7 (Silo Project Area) RSS In-Situ Gamma Spectrometry Summary Results
Total Uranium

BATCH_NO:	201	Northing/Easting Range:	480736.8	480691.4	Total Number of Results (Spectra):	436	
LOCATION:	Area B		1347590.1	1347327.3	Percentage of Total Uranium results above MDC:	0.5	%
					Maximum Total Uranium Result (Result > MDC):	114.1	ppm
					Average MDC for all Spectra:	111.7	ppm
BATCH_NO:	202	Northing/Easting Range:	481030.8	480714.5	Total Number of Results (Spectra):	448	
LOCATION:	Area B		1347491.6	1347099.5	Percentage of Total Uranium results above MDC:	0.0	%
					Maximum Total Uranium Result (Result > MDC):		ppm
					Average MDC for all Spectra:	173.5	ppm
BATCH_NO:	203	Northing/Easting Range:	481072.7	480738.7	Total Number of Results (Spectra):	470	
LOCATION:	Area B		1347462.6	1347103.3	Percentage of Total Uranium results above MDC:	0.4	%
					Maximum Total Uranium Result (Result > MDC):	189.2	ppm
					Average MDC for all Spectra:	165.1	ppm
BATCH_NO:	204	Northing/Easting Range:	481100.9	480841.4	Total Number of Results (Spectra):	200	
LOCATION:	Area B		1347087.1	1346897.8	Percentage of Total Uranium results above MDC:	0.5	%
					Maximum Total Uranium Result (Result > MDC):	66.0	ppm
					Average MDC for all Spectra:	105.2	ppm

BATCH_NO:	205	Northing/Easting Range:	480186.1	480128.6	Total Number of Results (Spectra):	543	
LOCATION:	Area B		1347754.5	1346875.1	Percentage of Total Uranium results above MDC:	0.6	%
					Maximum Total Uranium Result (Result > MDC):	131.9	ppm
					Average MDC for all Spectra:	148.6	ppm
BATCH_NO:	206	Northing/Easting Range:	480192.7	480161.8	Total Number of Results (Spectra):	76	
LOCATION:	Area B		1347753.7	1346880.6	Percentage of Total Uranium results above MDC:	1.3	%
					Maximum Total Uranium Result (Result > MDC):	111.0	ppm
					Average MDC for all Spectra:	127.4	ppm
BATCH_NO:	207	Northing/Easting Range:	480684.7	480659.3	Total Number of Results (Spectra):	54	
LOCATION:	Area D		1347581	1347310.3	Percentage of Total Uranium results above MDC:	0.0	%
					Maximum Total Uranium Result (Result > MDC):		ppm
					Average MDC for all Spectra:	110.1	ppm
BATCH_NO:	208	Northing/Easting Range:	480976.9	480723.3	Total Number of Results (Spectra):	273	
LOCATION:	Area D		1347297.8	1347106.7	Percentage of Total Uranium results above MDC:	0.4	%
					Maximum Total Uranium Result (Result > MDC):	225.8	ppm
					Average MDC for all Spectra:	205.1	ppm
BATCH_NO:	209	Northing/Easting Range:	480924.8	480772.9	Total Number of Results (Spectra):	60	
LOCATION:	Area D		1347229.3	1347100.3	Percentage of Total Uranium results above MDC:	1.7	%
					Maximum Total Uranium Result (Result > MDC):	332.4	ppm
					Average MDC for all Spectra:	228.4	ppm

BATCH_NO:	210	Northing/Easting Range:	480807.6	480761	Total Number of Results (Spectra):	69	
LOCATION:	Area A		1346891.8	1346837.7	Percentage of Total Uranium results above MDC:	0.0	%
					Maximum Total Uranium Result (Result > MDC):		ppm
					Average MDC for all Spectra:	182.1	ppm
BATCH_NO:	211	Northing/Easting Range:	480723.7	480659.4	Total Number of Results (Spectra):	398	
LOCATION:	Area D		1347569.1	1347285.6	Percentage of Total Uranium results above MDC:	1.0	%
					Maximum Total Uranium Result (Result > MDC):	208.0	ppm
					Average MDC for all Spectra:	142.7	ppm
BATCH_NO:	212	Northing/Easting Range:	481066.4	480798.3	Total Number of Results (Spectra):	292	
LOCATION:	Area C		1346913.8	1346733.9	Percentage of Total Uranium results above MDC:	0.3	%
					Maximum Total Uranium Result (Result > MDC):	75.9	ppm
					Average MDC for all Spectra:	120.2	ppm
BATCH_NO:	213	Northing/Easting Range:	480898.4	480798	Total Number of Results (Spectra):	253	
LOCATION:	Area C		1346909.3	1346809.8	Percentage of Total Uranium results above MDC:	0.0	%
					Maximum Total Uranium Result (Result > MDC):		ppm
					Average MDC for all Spectra:	186.8	ppm

APPENDIX C

AREA 7 HISTORICAL DATA SUMMARY

Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	1,1-Dichloroethene	5.0	U	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	1,1-Dichloroethene	5.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	1,1-Dichloroethene	12.0	U	UG/KG	DRILL CUTTINGS
119432	11079	30-Jun-93			481067.8	1347002.7	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	1,1-Dichloroethene	12.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	1,1-Dichloroethene	5.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	1,1-Dichloroethene	11.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	1,2-Dichloroethane	5.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	1,2-Dichloroethane	11.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	1,2-Dichloroethane	5.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	1,2-Dichloroethane	5.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	1,2-Dichloroethane	12.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
119432	11079	30-Jun-93			481067.8	1347002.7	1,2-Dichloroethane	12.0	U	UG/KG	DRILL CUTTINGS
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	1,2-Dichloroethane	6.0	UJ	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	4-NITROANILINE	1800.0	UJ	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.2	1346857.4	4-NITROANILINE	17000.0	UJ	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	4-NITROANILINE	1800.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61126	WPA18	27-Apr-91	1.5	2	480866.2	1346857.4	4-NITROANILINE	8700.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	4-NITROANILINE	1800.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	4-NITROANILINE	980.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	4-NITROANILINE	1900.0	UJ	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	4-NITROANILINE	2000.0	U	ug/kg	NORMAL
61512	WPA18	24-Jul-91	1.5	2	480866.2	1346857.4	4-NITROANILINE	17000.0	UJ	ug/kg	NORMAL
61198	WPA29	28-Apr-91	0	0.5	480457.7	1347161.4	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61205	WPA30	24-Apr-91	0	0.5	480452.7	1347346.3	alpha-Chlordane	120.0	U	ug/kg	NORMAL
61191	WPA28	26-Apr-91	0	0.5	480350.0	1347443.5	alpha-Chlordane	110.0	U	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.2	1346857.4	alpha-Chlordane	340.0	U	ug/kg	NORMAL
61093	WPA14	25-Apr-91	0	0.5	481063.3	1346962.9	alpha-Chlordane	92.0	U	ug/kg	NORMAL
61254	WPA37	23-Apr-91	0	0.5	480858.0	1347157.3	alpha-Chlordane	95.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	alpha-Chlordane	4.0	U	ug/kg	NORMAL
61233	WPA34	25-Apr-91	0	0.5	480632.8	1347367.7	alpha-Chlordane	93.0	U	ug/kg	NORMAL
61142	WPA21	26-Apr-91	0	0.5	480251.1	1346846.9	alpha-Chlordane	94.0	U	ug/kg	NORMAL
61514	WPA18	25-Jul-91	1.3	1.8	480866.2	1346857.4	alpha-Chlordane	1700.0	U	ug/kg	NORMAL
61310	WPA23	27-Apr-91	0	0.5	480269.5	1346938.0	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61512	WPA18	24-Jul-91	1.5	2	480866.2	1346857.4	alpha-Chlordane	870.0	U	ug/kg	NORMAL
61163	WPA24	27-Apr-91	0	0.5	480258.2	1347140.9	alpha-Chlordane	98.0	U	ug/kg	NORMAL
61170	WPA25	28-Apr-91	0	0.5	480155.6	1347238.1	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61128	WPA19	27-Apr-91	0	0.5	480666.3	1346852.0	alpha-Chlordane	90.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	alpha-Chlordane	94.0	U	ug/kg	NORMAL
61219	WPA33	26-Apr-91	0	0.5	480638.7	1347131.1	alpha-Chlordane	91.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	alpha-Chlordane	270.0	U	ug/kg	NORMAL
61240	WPA35	25-Apr-91	0	0.5	480755.3	1347254.5	alpha-Chlordane	92.0	U	ug/kg	NORMAL
61135	WPA20	26-Apr-91	0	0.5	480468.4	1346846.5	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61212	WPA31	24-Apr-91	0	0.5	480503.3	1347281.2	alpha-Chlordane	96.0	U	ug/kg	NORMAL
61511	WPA18	25-Jul-91	1.5	1.9	480866.2	1346857.4	alpha-Chlordane	1700.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	alpha-Chlordane	200.0	U	ug/kg	NORMAL
61221	WPA32	23-Apr-91	0	0.5	480549.9	1347449.0	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61247	WPA36	23-Apr-91	0	0.5	480724.8	1347453.7	alpha-Chlordane	97.0	U	ug/kg	NORMAL
61100	WPA15	25-Apr-91	0	0.5	481057.9	1347162.8	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61184	WPA27	26-Apr-91	0	0.5	480355.5	1347243.6	alpha-Chlordane	96.0	U	ug/kg	NORMAL
61177	WPA26	27-Apr-91	0	0.5	480252.8	1347340.8	alpha-Chlordane	100.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	bis(2-Chloroisopropyl) ether	410.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	bis(2-Chloroisopropyl) ether	410.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	bis(2-Chloroisopropyl) ether	410.0	U	ug/kg	NORMAL
61126	WPA18	27-Apr-91	1.5	2	480866.2	1346857.4	bis(2-Chloroisopropyl) ether	1800.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	bis(2-Chloroisopropyl) ether	420.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	bis(2-Chloroisopropyl) ether	420.0	U	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	bis(2-Chloroisopropyl) ether	370.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	bis(2-Chloroisopropyl) ether	410.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	bis(2-Chloroisopropyl) ether	400.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	bis(2-Chloroisopropyl) ether	410.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	bis(2-Chloroisopropyl) ether	400.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	bis(2-Chloroisopropyl) ether	370.0	U	ug/kg	NORMAL
61512	WPA18	24-Jul-91	1.5	2	480866.2	1346857.4	bis(2-Chloroisopropyl) ether	3500.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	bis(2-Chloroisopropyl) ether	370.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	bis(2-Chloroisopropyl) ether	410.0	U	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.2	1346857.4	bis(2-Chloroisopropyl) ether	3500.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	bis(2-Chloroisopropyl) ether	380.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	bis(2-Chloroisopropyl) ether	420.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	bis(2-Chloroisopropyl) ether	380.0	UJ	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Bromodichloromethane	11.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	Bromodichloromethane	5.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	Bromodichloromethane	6.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	Bromodichloromethane	6.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	Bromodichloromethane	6.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	Bromodichloromethane	5.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Bromodichloromethane	5.0	UJ	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Bromodichloromethane	6.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Bromodichloromethane	6.0	U	ug/kg	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	Bromodichloromethane	6.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Bromodichloromethane	12.0	U	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	Bromodichloromethane	6.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
119432	11079	30-Jun-93			481067.8	1347002.7	Bromodichloromethane	12.0	U	UG/KG	DRILL CUTTINGS
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	Bromodichloromethane	6.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Carbazole	380.0	UJ	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Chloroethane	12.0	U	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Chloroethane	11.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	Chloroethane	13.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Chloroethane	11.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	Chloroethane	12.0	U	ug/kg	NORMAL
119432	11079	30-Jun-93			481067.8	1347002.7	Chloroethane	12.0	U	UG/KG	DRILL CUTTINGS
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	Chloroethane	11.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	Chloroethane	12.0	U	ug/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Chloroethane	11.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	Chloroethane	12.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	Chloroethane	12.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	Chloroethane	12.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	Chloroethane	12.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Chloroethane	11.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	Chloroethane	11.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	Chloroethane	11.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	Chloroethane	11.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	Chloroethane	11.0	U	ug/kg	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Chloroethane	12.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	Chloroethane	12.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Chloroethane	11.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Chloroethane	12.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	Chloroethane	12.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	Chloroethane	11.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	Chloroethane	12.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Chloroethane	12.0	U	ug/kg	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Chloroethane	12.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	Chloroethane	11.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	Chloroethane	12.0	U	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Chloroethane	11.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	Chloroethane	12.0	U	ug/kg	NORMAL
61219	WPA33	26-Apr-91	0	0.5	480638.7	1347131.1	Mercury	0.1	U	mg/kg	NORMAL
61254	WPA37	23-Apr-91	0	0.5	480858.0	1347157.3	Mercury	0.1	U	mg/kg	NORMAL
61233	WPA34	25-Apr-91	0	0.5	480632.8	1347367.7	Mercury	0.1	U	mg/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Mercury	0.1	U	mg/kg	NORMAL
61212	WPA31	24-Apr-91	0	0.5	480503.3	1347281.2	Mercury	0.1	U	mg/kg	NORMAL

Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61221	WPA32	23-Apr-91	0	0.5	480549.9	1347449.0	Mercury	0.1	U	mg/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Mercury	0.1	U	mg/kg	NORMAL
61247	WPA36	23-Apr-91	0	0.5	480724.8	1347453.7	Mercury	0.1	U	mg/kg	NORMAL
61240	WPA35	25-Apr-91	0	0.5	480755.3	1347254.5	Mercury	0.1	U	mg/kg	NORMAL
121357	11167	08-Jul-93	4.5	6	480467.4	1346872.2	Mercury	0.1	UJ	mg/kg	NORMAL
122520	11162	25-Jul-93	6.5	7	480517.4	1346872.2	Mercury	0.2	U	mg/kg	NORMAL
121352	11167	09-Jul-93	0	1.5	480467.4	1346872.2	Mercury	0.1	UJ	mg/kg	NORMAL
61205	WPA30	24-Apr-91	0	0.5	480452.7	1347346.3	Mercury	0.1	U	mg/kg	NORMAL
122348	11149	24-Jul-93	5	5.5	480448.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
61170	WPA25	28-Apr-91	0	0.5	480155.6	1347238.1	Mercury	0.1	U	mg/kg	NORMAL
122101	11158	21-Jul-93	5.5	6	480491.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
122102	11158	22-Jul-93	7	7.5	480491.1	1346863.2	Mercury	0.2	U	mg/kg	NORMAL
122507	11149	24-Jul-93	3	3.5	480448.4	1346815.3	Mercury	0.1	U	MG/KG	DUPLICATE
122103	11158	22-Jul-93	6.5	7	480491.1	1346863.2	Mercury	0.1	U	MG/KG	DUPLICATE
61177	WPA26	27-Apr-91	0	0.5	480252.8	1347340.8	Mercury	0.1	U	mg/kg	NORMAL
122347	11149	24-Jul-93	3.5	4	480448.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
121802	11159	14-Jul-93	4.5	6	480481.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
121755	11157	14-Jul-93	5.5	6	480501.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
121803	11159	14-Jul-93	1.5	3	480481.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Mercury	0.1	U	mg/kg	NORMAL
61184	WPA27	26-Apr-91	0	0.5	480355.5	1347243.6	Mercury	0.1	U	mg/kg	NORMAL
122302	11148	23-Jul-93	5	5.5	480458.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
121818	11159	14-Jul-93	2.5	3	480481.1	1346863.2	Mercury	0.1	U	MG/KG	DUPLICATE
121759	11160	14-Jul-93	2	2.5	480471.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
121843	11150	16-Jul-93	3	3.5	480504.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
121844	11150	16-Jul-93	4.5	5	480504.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
122327	11147	24-Jul-93	9.5	10.5	480468.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
122005	11154	15-Jul-93	5	5.5	480464.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
122021	11152	16-Jul-93	5	5.5	480484.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
121633	11153	15-Jul-93	2.5	3.5	480474.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
121637	11153	15-Jul-93	4.5	6	480474.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
61142	WPA21	26-Apr-91	0	0.5	480251.1	1346846.9	Mercury	0.1	U	mg/kg	NORMAL
122001	11154	15-Jul-93	4	4.5	480464.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
122036	11151	16-Jul-93	5.5	6	480494.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
121790	11155	15-Jul-93	5.5	6	480454.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
121786	11155	15-Jul-93	2.5	3	480454.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
121751	11157	14-Jul-93	2	2.5	480501.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
61310	WPA23	27-Apr-91	0	0.5	480269.5	1346938.0	Mercury	0.1	U	mg/kg	NORMAL
122056	11156	21-Jul-93	4	4.5	480511.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
122057	11156	21-Jul-93	5.5	6	480511.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
122032	11151	16-Jul-93	0.5	1	480494.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
61163	WPA24	27-Apr-91	0	0.5	480258.2	1347140.9	Mercury	0.1	U	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61128	WPA19	27-Apr-91	0	0.5	480666.3	1346852.0	Mercury	0.1	U	mg/kg	NORMAL
61135	WPA20	26-Apr-91	0	0.5	480466.4	1346846.5	Mercury	0.1	U	mg/kg	NORMAL
121896	11148	23-Jul-93	4.5	5	480458.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
122526	11162	24-Jul-93	4.5	5	480517.4	1346872.2	Mercury	0.1	U	MG/KG	DUPLICATE
121391	11165	10-Jul-93	3	4.5	480487.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
121616	11163	11-Jul-93	4.5	6	480507.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
121620	11163	11-Jul-93	3	4.5	480507.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
121383	11164	10-Jul-93	3	4.5	480497.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
61198	WPA29	28-Apr-91	0	0.5	480457.7	1347161.4	Mercury	0.1	U	mg/kg	NORMAL
121387	11164	10-Jul-93	4.5	6	480497.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
121395	11165	10-Jul-93	4.5	6	480487.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
121881	11145	21-Jul-93	4.5	5	480488.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
61100	WPA15	25-Apr-91	0	0.5	481057.9	1347162.8	Mercury	0.1	U	mg/kg	NORMAL
61093	WPA14	25-Apr-91	0	0.5	481063.3	1346962.9	Mercury	0.1	U	mg/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Mercury	0.1	UJ	mg/kg	NORMAL
121372	11166	09-Jul-93	3	4.5	480477.4	1346872.2	Mercury	0.1	J	mg/kg	NORMAL
121376	11166	09-Jul-93	4.5	6	480477.4	1346872.2	Mercury	0.1	J	mg/kg	NORMAL
122519	11162	24-Jul-93	5	5.5	480517.4	1346872.2	Mercury	0.1	U	mg/kg	NORMAL
122017	11152	16-Jul-93	2.5	3	480484.7	1346834.2	Mercury	0.1	U	mg/kg	NORMAL
61191	WPA28	26-Apr-91	0	0.5	480350.0	1347443.5	Mercury	0.1	U	mg/kg	NORMAL
121763	11160	14-Jul-93	5.5	6	480471.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
121645	11161	14-Jul-93	4.5	6	480461.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
122305	11146	24-Jul-93	11.5	12	480478.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Mercury	0.1	U	mg/kg	NORMAL
121641	11161	14-Jul-93	1.5	3	480461.1	1346863.2	Mercury	0.1	U	mg/kg	NORMAL
122326	11147	23-Jul-93	6	6.5	480468.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
122304	11146	23-Jul-93	8	8.5	480478.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
121882	11145	22-Jul-93	6.5	7	480488.4	1346815.3	Mercury	0.1	U	mg/kg	NORMAL
8854	1033	08-Apr-88	1.5	3	480442.3	1347206.2	Neptunium-237	0.6	U	pCi/g	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.4	1346831.0	Neptunium-237	0.6	U	pCi/g	NORMAL
5652	ZONE 3-257	19-Jun-88	0.33333	0.5	480729.4	1346931.0	Neptunium-237	0.6	UJ	pCi/g	NORMAL
SS-23-170	CIS_SYSGEN_286		0	0.5	480489.0	1347493.8	Neptunium-237	0.2	U	pCi/g	NORMAL
56033	1482	05-Dec-89		10	480462.3	1347578.1	Neptunium-237	0.6	UNV	PCI/G	NORMAL
8188	1072	06-Mar-88	0	1.5	481055.3	1347007.4	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56036	1483	05-Dec-89		8	480463.6	1347552.5	Neptunium-237	0.6	UNV	PCI/G	NORMAL
SS-46-206	CIS_SYSGEN_339		0	0.16	480762.8	1346954.1	Neptunium-237	0.3	U	pCi/g	NORMAL
56035	1483	05-Dec-89		5	480463.6	1347552.5	Neptunium-237	0.6	UNV	PCI/G	NORMAL
SS-46-214	CIS_SYSGEN_317		0	0.16	480649.2	1347451.2	Neptunium-237	0.2	UJ	pCi/g	NORMAL
SS-23-162	CIS_SYSGEN_278		0	0.5	480485.0	1347639.8	Neptunium-237	0.2	U	pCi/g	NORMAL
5651	ZONE 3-257	19-Jun-88	0.16667	0.33333	480729.4	1346931.0	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56038	1484	05-Dec-89		8.5	480464.1	1347527.6	Neptunium-237	0.6	UNV	PCI/G	NORMAL
5645	ZONE 3-208	19-Jun-88	0.16667	0.33333	480289.4	1346871.0	Neptunium-237	0.6	UJ	pCi/g	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
5648	ZONE 3-250	19-Jun-88	0.16667	0.33333	480569.4	1346881.0	Neptunium-237	0.6	UJ	pCi/g	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Neptunium-237	0.2	UJ	pCi/g	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Neptunium-237	0.2	UJ	pCi/g	NORMAL
SS-23-145	CIS_SYSGEN_293		0	0.5	480494.0	1347858.1	Neptunium-237	0.2	UNV	pCi/g	NORMAL
5649	ZONE 3-250	19-Jun-88	0.33333	0.5	480569.4	1346881.0	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56034	1482	05-Dec-89		14	480462.3	1347578.1	Neptunium-237	0.6	UNV	PCI/G	NORMAL
SS-23-176	CIS_SYSGEN_276		0	0.5	480484.3	1347919.9	Neptunium-237	0.2	U	pCi/g	NORMAL
5646	ZONE 3-208	19-Jun-88	0.33333	0.5	480289.4	1346871.0	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56037	1484	05-Dec-89		5	480464.1	1347527.6	Neptunium-237	0.6	UNV	PCI/G	NORMAL
5890	ZONE 2-177	09-Oct-88	0	0.5	480268.4	1347531.0	Neptunium-237	0.6	U	pCi/g	NORMAL
5884	ZONE 2-179	09-Oct-88	0	0.5	480279.4	1347031.0	Neptunium-237	0.6	U	pCi/g	NORMAL
32456	2032	06-Feb-90	7.5	9	480533.0	1346829.6	Neptunium-237	0.6	U	pCi/g	NORMAL
8810	2008	21-Mar-88	13.5	15	480690.8	1347449.0	Neptunium-237	0.6	U	pCi/g	NORMAL
56032	1482	05-Dec-89		6.5	480462.3	1347578.1	Neptunium-237	0.6	UNV	PCI/G	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Neptunium-237	0.8	J	pCi/g	NORMAL
8827	2008	23-Mar-88	55	56.5	480690.8	1347449.0	Neptunium-237	0.6	U	pCi/g	NORMAL
56004	1478	18-Nov-89	9.3	9.7	480444.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56003	1478	18-Nov-89	4.9	5.3	480444.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56002	1477	18-Nov-89	9.8	10	480419.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
32465	2032	07-Feb-90	25	26.5	480533.0	1346829.6	Neptunium-237	0.6	U	pCi/g	NORMAL
56001	1477	18-Nov-89	4.8	5	480419.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56000	1476	18-Nov-89	14.8	15	480394.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
32766	2033	05-Jun-90	40	40.5	480440.5	1347218.3	Neptunium-237	0.6	UJ	pCi/g	NORMAL
8295	3034	22-Mar-88	95	96.5	480269.6	1346962.4	Neptunium-237	0.6	U	pCi/g	NORMAL
55999	1476	18-Nov-89	9.8	10	480394.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
55998	1476	18-Nov-89	4.8	5.3	480394.8	1346823.5	Neptunium-237	0.6	UJ	pCi/g	NORMAL
8279	3034	20-Mar-88	21	22.5	480269.6	1346962.4	Neptunium-237	0.6	U	pCi/g	NORMAL
8272	3034	20-Mar-88	10.5	12	480269.6	1346962.4	Neptunium-237	0.6	U	pCi/g	NORMAL
SS-23-106	CIS_SYSGEN_200		0	0.5	480450.4	1347840.9	Neptunium-237	0.2	UNV	pCi/g	NORMAL
56013	1479	19-Nov-89	4.8	5	480832.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
7504	1032	30-Oct-87	15	16.5	480544.672	1346827.9	Neptunium-237	0.6	UJ	pCi/g	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Neptunium-237	0.2	UJ	pCi/g	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Neptunium-237	0.2	UJ	pCi/g	NORMAL
56019	1481	20-Nov-89	4.9	5.3	480882.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
6100	ZONE 1-130	26-Oct-88	0	0.5	480279.4	1347781.0	Neptunium-237	0.6	U	pCi/g	NORMAL
56017	1480	20-Nov-89	9.9	10.3	480857.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56016	1480	20-Nov-89	4.8	5	480857.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
5887	ZONE 2-178	09-Oct-88	0	0.5	480274.4	1347281.0	Neptunium-237	0.6	U	pCi/g	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
56020	1481	20-Nov-89	9.8	10.2	480882.2	1346874.7	Neptunium-237	0.6	UJ	pCi/g	NORMAL
8272	3034	20-Mar-88	10.5	12	480269.6	1346962.4	Strontium-90	0.5	U	pCi/g	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Strontium-90	0.5	J	pCi/g	NORMAL
33083	3032	23-Sep-90	95	96.5	480522.1	1346827.6	Strontium-90	0.8	J	pCi/g	NORMAL
SS-46-214	CIS_SYSGEN_317		0	0.16	480649.2	1347451.2	Strontium-90	0.8	UJ	pCi/g	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Strontium-90	0.5	UJ	pCi/g	NORMAL
8279	3034	20-Mar-88	21	22.5	480269.6	1346962.4	Strontium-90	0.5	U	pCi/g	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Strontium-90	0.5	UJ	pCi/g	NORMAL
32456	2032	06-Feb-90	7.5	9	480533.0	1346829.6	Strontium-90	2.8	J	pCi/g	NORMAL
8295	3034	22-Mar-88	95	96.5	480269.6	1346962.4	Strontium-90	0.5	U	pCi/g	NORMAL
SS-23-162	CIS_SYSGEN_278		0	0.5	480485.0	1347639.8	Strontium-90	0.5	U	pCi/g	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Strontium-90	0.5	UJ	pCi/g	NORMAL
7504	1032	30-Oct-87	15	16.5	480544.7	1346827.9	Strontium-90	0.5	U	pCi/g	NORMAL
8810	2008	21-Mar-88	13.5	15	480690.8	1347449.0	Strontium-90	0.5	U	pCi/g	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Strontium-90	0.5	UJ	pCi/g	NORMAL
SS-23-170	CIS_SYSGEN_286		0	0.5	480489.0	1347493.8	Strontium-90	1.4	NV	pCi/g	NORMAL
32465	2032	07-Feb-90	25	26.5	480533.0	1346829.6	Strontium-90	0.6	J	pCi/g	NORMAL
8827	2008	23-Mar-88	55	56.5	480690.8	1347449.0	Strontium-90	0.5	U	pCi/g	NORMAL
SS-23-176	CIS_SYSGEN_276		0	0.5	480484.3	1347919.9	Strontium-90	0.5	U	pCi/g	NORMAL
SS-23-145	CIS_SYSGEN_293		0	0.5	480494.0	1347858.1	Strontium-90	0.5	NV	pCi/g	NORMAL
SS-23-106	CIS_SYSGEN_200		0	0.5	480450.4	1347840.9	Strontium-90	0.5	UNV	pCi/g	NORMAL
56036	1483	05-Dec-89		8	480463.6	1347552.5	Strontium-90	0.5	UNV	PCI/G	NORMAL
SS-46-206	CIS_SYSGEN_339		0	0.16	480762.8	1346954.1	Strontium-90	0.5	UJ	pCi/g	NORMAL
122022	11152	16-Jul-93	5	5.5	480484.7	1346834.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
56013	1479	19-Nov-89	4.8	5	480832.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
122018	11152	16-Jul-93	2.5	3	480484.7	1346834.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
5887	ZONE 2-178	09-Oct-88	0	0.5	480274.4	1347281.0	Strontium-90	1.8	J	pCi/g	NORMAL
121634	11153	15-Jul-93	2.5	3.5	480474.7	1346834.2	Strontium-90	0.8	UJ	pCi/g	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.2	1346874.7	Strontium-90	0.5	UJ	pCi/g	NORMAL
121787	11155	15-Jul-93	2.5	3	480454.7	1346834.2	Strontium-90	0.7	UJ	pCi/g	NORMAL
121791	11155	15-Jul-93	5.5	6	480454.7	1346834.2	Strontium-90	0.8	UJ	pCi/g	NORMAL
5884	ZONE 2-179	09-Oct-88	0	0.5	480279.4	1347031.0	Strontium-90	0.5	UJ	pCi/g	NORMAL
122517	11162	24-Jul-93	5	5.5	480517.4	1346872.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
122037	11151	16-Jul-93	5.5	6	480494.7	1346834.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
122058	11156	21-Jul-93	4	4.5	480511.1	1346863.2	Strontium-90	2.7	UJ	pCi/g	NORMAL
122506	11149	24-Jul-93	3	3.5	480448.4	1346815.3	Strontium-90	0.4	UJ	PCI/G	DUPLICATE
5645	ZONE 3-208	19-Jun-88	0.16667	0.33333	480289.4	1346871.0	Strontium-90	0.9	J	pCi/g	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
121845	11150	16-Jul-93	3	3.5	480504.7	1346834.2	Strontium-90	0.6	UJ	pCi/g	NORMAL
56017	1480	20-Nov-89	9.9	10.3	480857.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
122033	11151	16-Jul-93	0.5	1	480494.7	1346834.2	Strontium-90	0.6	UJ	pCi/g	NORMAL
121846	11150	16-Jul-93	4.5	5	480504.7	1346834.2	Strontium-90	0.5	UJ	pCi/g	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
56016	1480	20-Nov-89	4.8	5	480857.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
5890	ZONE 2-177	09-Oct-88	0	0.5	480268.4	1347531.0	Strontium-90	0.9	J	pCi/g	NORMAL
121380	11167	09-Jul-93	0	1.5	480467.4	1346872.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
122350	11149	24-Jul-93	5	5.5	480448.4	1346815.3	Strontium-90	0.7	UJ	pCi/g	NORMAL
121621	11163	11-Jul-93	3	4.5	480507.4	1346872.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Strontium-90	0.5	UJ	pCi/g	NORMAL
121760	11160	14-Jul-93	2	2.5	480471.1	1346863.2	Strontium-90	0.7	UJ	pCi/g	NORMAL
121764	11160	14-Jul-93	5.5	6	480471.1	1346863.2	Strontium-90	2.8	U	pCi/g	NORMAL
121619	11163	11-Jul-93	4.5	6	480507.4	1346872.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
121817	11159	14-Jul-93	2.5	3	480481.1	1346863.2	Strontium-90	0.7	UJ	PCI/G	DUPLICATE
122525	11162	24-Jul-93	4.5	5	480517.4	1346872.2	Strontium-90	0.4	UJ	PCI/G	DUPLICATE
121646	11161	14-Jul-93	4.5	6	480461.1	1346863.2	Strontium-90	0.7	J	pCi/g	NORMAL
121384	11164	10-Jul-93	3	4.5	480497.4	1346872.2	Strontium-90	3.5	U	pCi/g	NORMAL
121396	11165	10-Jul-93	4.5	6	480487.4	1346872.2	Strontium-90	0.8	UJ	pCi/g	NORMAL
121804	11159	14-Jul-93	1.5	3	480481.1	1346863.2	Strontium-90	0.8	UJ	pCi/g	NORMAL
121756	11157	14-Jul-93	5.5	6	480501.1	1346863.2	Strontium-90	1.5	UJ	pCi/g	NORMAL
122104	11158	21-Jul-93	5.5	6	480491.1	1346863.2	Strontium-90	0.6	UJ	pCi/g	NORMAL
6100	ZONE 1-130	26-Oct-88	0	0.5	480279.4	1347781.0	Strontium-90	0.5	U	pCi/g	NORMAL
121377	11166	09-Jul-93	4.5	6	480477.4	1346872.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
122105	11158	22-Jul-93	7	7.5	480491.1	1346863.2	Strontium-90	0.7	UJ	pCi/g	NORMAL
121373	11166	09-Jul-93	3	4.5	480477.4	1346872.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
121801	11159	14-Jul-93	4.5	6	480481.1	1346863.2	Strontium-90	0.7	UJ	pCi/g	NORMAL
121610	11165	10-Jul-93	1.5	2	480487.4	1346872.2	Strontium-90	0.6	UJ	pCi/g	NORMAL
122106	11158	22-Jul-93	6.5	7	480491.1	1346863.2	Strontium-90	0.8	UJ	PCI/G	DUPLICATE
56019	1481	20-Nov-89	4.9	5.3	480882.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
8188	1072	06-Mar-88	0	1.5	481055.3	1347007.4	Strontium-90	0.5	UJ	pCi/g	NORMAL
56033	1482	05-Dec-89		10	480462.3	1347578.1	Strontium-90	1.9	NV	PCI/G	NORMAL
5646	ZONE 3-208	19-Jun-88	0.33333	0.5	480289.4	1346871.0	Strontium-90	0.8	J	pCi/g	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.4	1346831.0	Strontium-90	0.5	U	pCi/g	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Strontium-90	0.5	UJ	pCi/g	NORMAL
122307	11146	24-Jul-93	11.5	12	480478.4	1346815.3	Strontium-90	0.5	UJ	pCi/g	NORMAL
122329	11147	24-Jul-93	9.5	10.5	480468.4	1346815.3	Strontium-90	0.5	UJ	pCi/g	NORMAL
56038	1484	05-Dec-89		8.5	480464.1	1347527.6	Strontium-90	1.2	NV	PCI/G	NORMAL
56037	1484	05-Dec-89		5	480464.1	1347527.6	Strontium-90	0.5	UNV	PCI/G	NORMAL
56034	1482	05-Dec-89		14	480462.3	1347578.1	Strontium-90	0.7	NV	PCI/G	NORMAL
5652	ZONE 3-257	19-Jun-88	0.33333	0.5	480729.4	1346931.0	Strontium-90	1.6	J	pCi/g	NORMAL
56032	1482	05-Dec-89		6.5	480462.3	1347578.1	Strontium-90	4.3	NV	PCI/G	NORMAL
5649	ZONE 3-250	19-Jun-88	0.33333	0.5	480569.4	1346881.0	Strontium-90	1.0	J	pCi/g	NORMAL
121897	11148	23-Jul-93	4.5	5	480458.4	1346815.3	Strontium-90	0.9	UJ	pCi/g	NORMAL
122328	11147	23-Jul-93	6	6.5	480468.4	1346815.3	Strontium-90	0.6	J	pCi/g	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL

Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
5648	ZONE 3-250	19-Jun-88	0.16667	0.33333	480569.4	1346881.0	Strontium-90	0.8	J	pCi/g	NORMAL
8854	1033	08-Apr-88	1.5	3	480442.3	1347206.2	Strontium-90	0.5	UJ	pCi/g	NORMAL
122349	11149	24-Jul-93	3.5	4	480448.4	1346815.3	Strontium-90	0.9	UJ	pCi/g	NORMAL
56035	1483	05-Dec-89		5	480463.6	1347552.5	Strontium-90	6.0	NV	PCI/G	NORMAL
56020	1481	20-Nov-89	9.8	10.2	480882.2	1346874.7	Strontium-90	0.5	U	pCi/g	NORMAL
122306	11146	23-Jul-93	8	8.5	480478.4	1346815.3	Strontium-90	0.5	UJ	pCi/g	NORMAL
122303	11148	23-Jul-93	5	5.5	480458.4	1346815.3	Strontium-90	0.6	UJ	pCi/g	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Technetium-99	1.0	UJ	pCi/g	NORMAL
5648	ZONE 3-250	19-Jun-88	0.16667	0.33333	480569.4	1346881.0	Technetium-99	1.1	UJ	pCi/g	NORMAL
5651	ZONE 3-257	19-Jun-88	0.16667	0.33333	480729.4	1346931.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
121879	11145	21-Jul-93	4.5	5	480488.4	1346815.3	Technetium-99	1.7	J	pCi/g	NORMAL
122105	11158	22-Jul-93	7	7.5	480491.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
5649	ZONE 3-250	19-Jun-88	0.33333	0.5	480569.4	1346881.0	Technetium-99	1.2	J	pCi/g	NORMAL
122104	11158	21-Jul-93	5.5	6	480491.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
122349	11149	24-Jul-93	3.5	4	480448.4	1346815.3	Technetium-99	1.0	U	pCi/g	NORMAL
121801	11159	14-Jul-93	4.5	6	480481.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121760	11160	14-Jul-93	2	2.5	480471.1	1346863.2	Technetium-99	4.2	-	pCi/g	NORMAL
7504	1032	30-Oct-87	15	16.5	480544.7	1346827.9	Technetium-99	1.0	U	pCi/g	NORMAL
121642	11161	14-Jul-93	1.5	3	480461.1	1346863.2	Technetium-99	1.0	U	pCi/g	NORMAL
121764	11160	14-Jul-93	5.5	6	480471.1	1346863.2	Technetium-99	1.3	-	pCi/g	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.4	1346831.0	Technetium-99	1.0	U	pCi/g	NORMAL
SS-46-214	CIS_SYSGEN_317		0	0.16	480649.2	1347451.2	Technetium-99	4.8	-	pCi/g	NORMAL
SS-23-106	CIS_SYSGEN_200		0	0.5	480450.4	1347840.9	Technetium-99	1.2	UNV	pCi/g	NORMAL
8854	1033	08-Apr-88	1.5	3	480442.3	1347206.2	Technetium-99	1.3	UNV	pCi/g	NORMAL
5652	ZONE 3-257	19-Jun-88	0.33333	0.5	480729.4	1346931.0	Technetium-99	1.0	UJ	PCI/G	DUPLICATE
121817	11159	14-Jul-93	2.5	3	480481.1	1346863.2	Technetium-99	0.1	J	pCi/g	NORMAL
SS-23-145	CIS_SYSGEN_293		0	0.5	480494.0	1347858.1	Technetium-99	1.1	UNV	pCi/g	NORMAL
8188	1072	06-Mar-88	0	1.5	481055.3	1347007.4	Technetium-99	3.6	-	pCi/g	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Technetium-99	1.0	UJ	pCi/g	NORMAL
121804	11159	14-Jul-93	1.5	3	480481.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121756	11157	14-Jul-93	5.5	6	480501.1	1346863.2	Technetium-99	1.0	U	pCi/g	NORMAL
121791	11155	15-Jul-93	5.5	6	480454.7	1346834.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
6100	ZONE 1-130	26-Oct-88	0	0.5	480279.4	1347781.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
121846	11150	16-Jul-93	4.5	5	480504.7	1346834.2	Technetium-99	1.0	U	pCi/g	NORMAL
5646	ZONE 3-208	19-Jun-88	0.33333	0.5	480289.4	1346871.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
122037	11151	16-Jul-93	5.5	6	480494.7	1346834.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
5884	ZONE 2-179	09-Oct-88	0	0.5	480279.4	1347031.0	Technetium-99	1.0	U	pCi/g	NORMAL
122033	11151	16-Jul-93	0.5	1	480494.7	1346834.2	Technetium-99	1.2	UJ	pCi/g	NORMAL
122329	11147	24-Jul-93	9.5	10.5	480468.4	1346815.3	Technetium-99	1.0	UJ	pCi/g	NORMAL
121897	11148	23-Jul-93	4.5	5	480458.4	1346815.3	Technetium-99	1.0	U	pCi/g	NORMAL
121845	11150	16-Jul-93	3	3.5	480504.7	1346834.2	Technetium-99	602.0	NV	pCi/g	NORMAL
SS-23-170	CIS_SYSGEN_286		0	0.5	480489.0	1347493.8	Technetium-99				

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
122506	11149	24-Jul-93	3	3.5	480448.4	1346815.3	Technetium-99	0.2	UJ	PCI/G	DUPLICATE
122303	11148	23-Jul-93	5	5.5	480458.4	1346815.3	Technetium-99	1.0	UJ	pCi/g	NORMAL
SS-23-162	CIS_SYSGEN_278		0	0.5	480485.0	1347639.8	Technetium-99	3.3	NV	pCi/g	NORMAL
SS-23-176	CIS_SYSGEN_276		0	0.5	480484.3	1347919.9	Technetium-99	2.4	NV	pCi/g	NORMAL
122350	11149	24-Jul-93	5	5.5	480448.4	1346815.3	Technetium-99	1.0	U	pCi/g	NORMAL
122328	11147	23-Jul-93	6	6.5	480468.4	1346815.3	Technetium-99	1.2	UJ	pCi/g	NORMAL
122018	11152	16-Jul-93	2.5	3	480484.7	1346834.2	Technetium-99	1.0	U	pCi/g	NORMAL
121752	11157	14-Jul-93	2	2.5	480501.1	1346863.2	Technetium-99	1.0	U	pCi/g	NORMAL
5890	ZONE 2-177	09-Oct-88	0	0.5	480268.4	1347531.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
121880	11145	22-Jul-93	6.5	7	480488.4	1346815.3	Technetium-99	1.0	UJ	pCi/g	NORMAL
122059	11156	21-Jul-93	5.5	6	480511.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
122058	11156	21-Jul-93	4	4.5	480511.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
5645	ZONE 3-208	19-Jun-88	0.16667	0.33333	480289.4	1346871.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
122306	11146	23-Jul-93	8	8.5	480478.4	1346815.3	Technetium-99	1.0	UJ	pCi/g	NORMAL
122006	11154	15-Jul-93	5	5.5	480464.7	1346834.2	Technetium-99	1.2	UJ	pCi/g	NORMAL
121787	11155	15-Jul-93	2.5	3	480454.7	1346834.2	Technetium-99	18.6	J	pCi/g	NORMAL
122022	11152	16-Jul-93	5	5.5	480484.7	1346834.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
122002	11154	15-Jul-93	4	4.5	480464.7	1346834.2	Technetium-99	1.0	U	pCi/g	NORMAL
122307	11146	24-Jul-93	11.5	12	480478.4	1346815.3	Technetium-99	1.0	UJ	pCi/g	NORMAL
121638	11153	15-Jul-93	4.5	6	480474.7	1346834.2	Technetium-99	1.2	UJ	pCi/g	NORMAL
5887	ZONE 2-178	09-Oct-88	0	0.5	480274.4	1347281.0	Technetium-99	16.9	J	pCi/g	NORMAL
121634	11153	15-Jul-93	2.5	3.5	480474.7	1346834.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121646	11161	14-Jul-93	4.5	6	480461.1	1346863.2	Technetium-99	7.7	J	pCi/g	NORMAL
122106	11158	22-Jul-93	6.5	7	480491.1	1346863.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
56016	1480	20-Nov-89	4.8	5	480857.2	1346874.7	Technetium-99	0.3	UJ	PCI/G	DUPLICATE
55998	1476	18-Nov-89	4.8	5.3	480394.8	1346823.5	Technetium-99	1.0	U	pCi/g	NORMAL
56020	1481	20-Nov-89	9.8	10.2	480882.2	1346874.7	Technetium-99	1.0	UJ	pCi/g	NORMAL
32766	2033	05-Jun-90	40	40.5	480440.5	1347218.3	Technetium-99	1.0	U	pCi/g	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.2	1346874.7	Technetium-99	1.0	U	pCi/g	NORMAL
55999	1476	18-Nov-89	9.8	10	480394.8	1346823.5	Technetium-99	1.0	U	pCi/g	NORMAL
33083	3032	23-Sep-90	95	96.5	480522.1	1346827.6	Technetium-99	1.0	UJ	pCi/g	NORMAL
121380	11167	09-Jul-93	0	1.5	480467.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
56032	1482	05-Dec-89		6.5	480462.3	1347578.1	Technetium-99	1.0	UJ	pCi/g	NORMAL
121358	11167	08-Jul-93	4.5	6	480467.4	1346872.2	Technetium-99	0.9	UNV	PCI/G	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Technetium-99	1.0	UJ	pCi/g	NORMAL
56033	1482	05-Dec-89		10	480462.3	1347578.1	Technetium-99	1.0	UJ	pCi/g	NORMAL
56019	1481	20-Nov-89	4.9	5.3	480882.2	1346874.7	Technetium-99	0.9	UNV	PCI/G	NORMAL
32465	2032	07-Feb-90	25	26.5	480533.0	1346829.6	Technetium-99	1.0	U	pCi/g	NORMAL
56000	1476	18-Nov-89	14.8	15	480394.8	1346823.5	Technetium-99	1.0	U	pCi/g	NORMAL
121377	11166	09-Jul-93	4.5	6	480477.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
8827	2008	23-Mar-88	55	56.5	480690.8	1347449.0	Technetium-99	2.7	J	pCi/g	NORMAL
								1.0	U	pCi/g	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
56013	1479	19-Nov-89	4.8	5	480832.2	1346874.7	Technetium-99	1.0	U	pCi/g	NORMAL
56004	1478	18-Nov-89	9.3	9.7	480444.8	1346823.5	Technetium-99	1.0	UJ	pCi/g	NORMAL
56003	1478	18-Nov-89	4.9	5.3	480444.8	1346823.5	Technetium-99	1.0	UJ	pCi/g	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.2	1346874.7	Technetium-99	1.0	U	pCi/g	NORMAL
56001	1477	18-Nov-89	4.8	5	480419.8	1346823.5	Technetium-99	1.0	UJ	pCi/g	NORMAL
56002	1477	18-Nov-89	9.8	10	480419.8	1346823.5	Technetium-99	1.0	UJ	pCi/g	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.2	1346874.7	Technetium-99	1.0	U	pCi/g	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.2	1346874.7	Technetium-99	1.0	U	pCi/g	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Technetium-99	1.0	UJ	pCi/g	NORMAL
32456	2032	06-Feb-90	7.5	9	480533.0	1346829.6	Technetium-99	1.0	U	pCi/g	NORMAL
56017	1480	20-Nov-89	9.9	10.3	480857.2	1346874.7	Technetium-99	1.0	U	pCi/g	NORMAL
8810	2008	21-Mar-88	13.5	15	480690.8	1347449.0	Technetium-99	3.6	-	pCi/g	NORMAL
8272	3034	20-Mar-88	10.5	12	480269.6	1346962.4	Technetium-99	1.0	UNV	pCi/g	NORMAL
121373	11166	09-Jul-93	3	4.5	480477.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
56037	1484	05-Dec-89		5	480464.1	1347527.6	Technetium-99	0.9	UNV	PCI/G	NORMAL
121388	11164	10-Jul-93	4.5	6	480497.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121396	11165	10-Jul-93	4.5	6	480487.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121392	11165	10-Jul-93	3	4.5	480487.4	1346872.2	Technetium-99	6.1	J	pCi/g	NORMAL
56036	1483	05-Dec-89		8	480463.6	1347552.5	Technetium-99	0.9	UNV	PCI/G	NORMAL
8279	3034	20-Mar-88	21	22.5	480269.6	1346962.4	Technetium-99	2.1	NV	pCi/g	NORMAL
121619	11163	11-Jul-93	4.5	6	480507.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121384	11164	10-Jul-93	3	4.5	480497.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
121621	11163	11-Jul-93	3	4.5	480507.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Technetium-99	1.0	UJ	pCi/g	NORMAL
SS-46-206	CIS_SYSGEN_339		0	0.16	480762.8	1346954.1	Technetium-99	4.0	UJ	pCi/g	NORMAL
56038	1484	05-Dec-89		8.5	480464.1	1347527.6	Technetium-99	0.9	UNV	PCI/G	NORMAL
122518	11162	25-Jul-93	6.5	7	480517.4	1346872.2	Technetium-99	1.0	UJ	pCi/g	NORMAL
56034	1482	05-Dec-89		14	480462.3	1347578.1	Technetium-99	0.9	UNV	PCI/G	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Technetium-99	1.0	UJ	pCi/g	NORMAL
122525	11162	24-Jul-93	4.5	5	480517.4	1346872.2	Technetium-99	1.2	UJ	PCI/G	DUPLICATE
56035	1483	05-Dec-89		5	480463.6	1347552.5	Technetium-99	0.9	UNV	PCI/G	NORMAL
8295	3034	22-Mar-88	95	96.5	480269.6	1346962.4	Technetium-99	1.0	UNV	pCi/g	NORMAL
122517	11162	24-Jul-93	5	5.5	480517.4	1346872.2	Technetium-99	1.2	UJ	pCi/g	NORMAL
121610	11165	10-Jul-93	1.5	2	480487.4	1346872.2	Technetium-99	3.0	J	pCi/g	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	Tetrachloroethene	6.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Tetrachloroethene	6.0	U	ug/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	Tetrachloroethene	6.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Tetrachloroethene	12.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	Tetrachloroethene	5.0	U	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Tetrachloroethene	6.0	U	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Tetrachloroethene	6.0	U	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Tetrachloroethene	5.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	Tetrachloroethene	6.0	U	ug/kg	NORMAL
119432	11079	30-Jun-93			481067.8	1347002.7	Tetrachloroethene	12.0	U	UG/KG	DRILL CUTTINGS
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	Tetrachloroethene	5.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	Tetrachloroethene	6.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Tetrachloroethene	11.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	Tetrachloroethene	6.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	Tetrachloroethene	6.0	U	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.2	1346857.4	Toxaphene	670.0	U	ug/kg	NORMAL
61205	WPA30	24-Apr-91	0	0.5	480452.7	1347346.3	Toxaphene	240.0	U	ug/kg	NORMAL
61184	WPA27	26-Apr-91	0	0.5	480355.5	1347243.6	Toxaphene	190.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Toxaphene	540.0	U	ug/kg	NORMAL
61163	WPA24	27-Apr-91	0	0.5	480258.2	1347140.9	Toxaphene	200.0	U	ug/kg	NORMAL
61093	WPA14	25-Apr-91	0	0.5	481063.3	1346962.9	Toxaphene	180.0	U	ug/kg	NORMAL
61247	WPA36	23-Apr-91	0	0.5	480724.8	1347453.7	Toxaphene	190.0	U	ug/kg	NORMAL
61221	WPA32	23-Apr-91	0	0.5	480549.9	1347449.0	Toxaphene	200.0	U	ug/kg	NORMAL
61177	WPA26	27-Apr-91	0	0.5	480252.8	1347340.8	Toxaphene	200.0	U	ug/kg	NORMAL
61212	WPA31	24-Apr-91	0	0.5	480503.3	1347281.2	Toxaphene	190.0	U	ug/kg	NORMAL
61254	WPA37	23-Apr-91	0	0.5	480858.0	1347157.3	Toxaphene	190.0	U	ug/kg	NORMAL
61170	WPA25	28-Apr-91	0	0.5	480155.6	1347238.1	Toxaphene	200.0	U	ug/kg	NORMAL
61191	WPA28	26-Apr-91	0	0.5	480350.0	1347443.5	Toxaphene	220.0	U	ug/kg	NORMAL
61240	WPA35	25-Apr-91	0	0.5	480755.3	1347254.5	Toxaphene	180.0	U	ug/kg	NORMAL
61135	WPA20	26-Apr-91	0	0.5	480466.4	1346846.5	Toxaphene	200.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Toxaphene	400.0	U	ug/kg	NORMAL
61310	WPA23	27-Apr-91	0	0.5	480269.5	1346938.0	Toxaphene	200.0	U	ug/kg	NORMAL
61100	WPA15	25-Apr-91	0	0.5	481057.9	1347162.8	Toxaphene	200.0	U	ug/kg	NORMAL
61198	WPA29	28-Apr-91	0	0.5	480457.7	1347161.4	Toxaphene	210.0	U	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61512	WPA18	24-Jul-91	1.5	2	480866.2	1346857.4	Toxaphene	1700.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Toxaphene	190.0	U	ug/kg	NORMAL
61233	WPA34	25-Apr-91	0	0.5	480632.8	1347367.7	Toxaphene	190.0	U	ug/kg	NORMAL
61514	WPA18	25-Jul-91	1.3	1.8	480866.2	1346857.4	Toxaphene	3500.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Toxaphene	400.0	U	ug/kg	NORMAL
61142	WPA21	26-Apr-91	0	0.5	480251.1	1346846.9	Toxaphene	190.0	U	ug/kg	NORMAL
61511	WPA18	25-Jul-91	1.5	1.9	480866.2	1346857.4	Toxaphene	3500.0	U	ug/kg	NORMAL
61219	WPA33	26-Apr-91	0	0.5	480638.7	1347131.1	Toxaphene	180.0	U	ug/kg	NORMAL
61128	WPA19	27-Apr-91	0	0.5	480666.3	1346852.0	Toxaphene	180.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Trichloroethene	12.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	Trichloroethene	6.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	Trichloroethene	6.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	Trichloroethene	6.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	Trichloroethene	5.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	Trichloroethene	6.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Trichloroethene	11.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Trichloroethene	6.0	U	ug/kg	NORMAL
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	Trichloroethene	6.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	Trichloroethene	6.0	U	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Trichloroethene	6.0	U	ug/kg	NORMAL
119432	11079	30-Jun-93			481067.8	1347002.7	Trichloroethene	12.0	U	UG/KG	DRILL CUTTINGS
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	Trichloroethene	6.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Trichloroethene	18.0	-	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	Trichloroethene	6.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	Trichloroethene	6.0	U	ug/kg	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Trichloroethene	6.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Trichloroethene	6.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	Trichloroethene	6.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Trichloroethene	5.0	U	ug/kg	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Trichloroethene	6.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	Trichloroethene	6.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	Trichloroethene	6.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	Trichloroethene	6.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	Trichloroethene	6.0	U	ug/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Trichloroethene	6.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	Trichloroethene	6.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	Trichloroethene	6.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	Trichloroethene	6.0	U	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Trichloroethene	6.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	Trichloroethene	5.0	U	ug/kg	NORMAL
SS-46-206	CIS_SYSGEN_339		0	0.16	480762.8	1346954.1	Uranium, Total	27.9	-	mg/kg	NORMAL
SS-46-323	CIS_SYSGEN_351		0	0.16	480811.4	1347005.5	Uranium, Total	25.5	NV	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
SS-46-202	CIS_SYSGEN_363		0	0.16	480862.8	1346956.9	Uranium, Total	7.8	NV	mg/kg	NORMAL
SS-46-203	CIS_SYSGEN_361		0	0.16	480860.0	1347056.8	Uranium, Total	36.9	NV	mg/kg	NORMAL
SS-46-204	CIS_SYSGEN_360		0	0.16	480857.3	1347156.8	Uranium, Total	16.8	NV	mg/kg	NORMAL
SS-46-205	CIS_SYSGEN_359		0	0.16	480854.6	1347256.7	Uranium, Total	9.3	UNV	mg/kg	NORMAL
SS-46-321	CIS_SYSGEN_352		0	0.16	480812.1	1346980.5	Uranium, Total	44.7	UNV	mg/kg	NORMAL
SS-46-569	CIS_SYSGEN_347		0	0.17	480807.3	1347155.4	Uranium, Total	55.8	NV	mg/kg	NORMAL
SS-46-567	CIS_SYSGEN_349		0	0.17	480808.7	1347105.4	Uranium, Total	112.1	NV	mg/kg	NORMAL
SS-46-318	CIS_SYSGEN_342		0	0.16	480782.3	1347154.7	Uranium, Total	44.7	UNV	mg/kg	NORMAL
SS-46-200	CIS_SYSGEN_373		0	0.16	480957.3	1347159.5	Uranium, Total	27.0	UNV	mg/kg	NORMAL
SS-46-566	CIS_SYSGEN_346		0	0.17	480806.0	1347205.4	Uranium, Total	26.1	NV	mg/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Uranium, Total	8.2	-	mg/kg	NORMAL
SS-46-325	CIS_SYSGEN_343		0	0.16	480787.8	1346954.8	Uranium, Total	16.5	NV	mg/kg	NORMAL
SS-46-201	CIS_SYSGEN_372		0	0.16	480954.5	1347259.5	Uranium, Total	26.1	UNV	mg/kg	NORMAL
SS-46-196	CIS_SYSGEN_386		0	0.17	481060.0	1347062.3	Uranium, Total	26.1	NV	mg/kg	NORMAL
SS-46-199	CIS_SYSGEN_375		0	0.16	480962.7	1346959.6	Uranium, Total	9.9	UNV	mg/kg	NORMAL
SS-46-198	CIS_SYSGEN_384		0	0.16	481054.5	1347262.2	Uranium, Total	12.3	NV	mg/kg	NORMAL
5644	ZONE 3-208	19-Jun-88	0	0.16667	480289.4	1346871.0	Uranium, Total	14.4	J	mg/kg	NORMAL
5645	ZONE 3-208	19-Jun-88	0.16667	0.33333	480289.4	1346871.0	Uranium, Total	4.0	J	mg/kg	NORMAL
5648	ZONE 3-250	19-Jun-88	0.16667	0.33333	480569.4	1346881.0	Uranium, Total	64.0	J	mg/kg	NORMAL
5651	ZONE 3-257	19-Jun-88	0.16667	0.33333	480729.4	1346931.0	Uranium, Total	10.0	J	mg/kg	NORMAL
5890	ZONE 2-177	09-Oct-88	0	0.5	480268.4	1347531.0	Uranium, Total	15.3	-	mg/kg	NORMAL
5652	ZONE 3-257	19-Jun-88	0.33333	0.5	480729.4	1346931.0	Uranium, Total	12.0	J	mg/kg	NORMAL
5646	ZONE 3-208	19-Jun-88	0.33333	0.5	480289.4	1346871.0	Uranium, Total	4.0	J	mg/kg	NORMAL
5647	ZONE 3-250	19-Jun-88	0	0.16667	480569.4	1346881.0	Uranium, Total	62.4	J	mg/kg	NORMAL
SS-46-197	CIS_SYSGEN_385		0	0.16	481057.2	1347162.3	Uranium, Total	12.3	NV	mg/kg	NORMAL
5884	ZONE 2-179	09-Oct-88	0	0.5	480279.4	1347031.0	Uranium, Total	7.2	-	mg/kg	NORMAL
5887	ZONE 2-178	09-Oct-88	0	0.5	480274.4	1347281.0	Uranium, Total	9.9	-	mg/kg	NORMAL
SS2219	LIT8923	23-Apr-86	0	0.167	480418.4	1347161.0	Uranium, Total	13.9	NV	mg/kg	NORMAL
SS-46-194	CIS_SYSGEN_387		0	0.17	481062.7	1346962.3	Uranium, Total	90.3	NV	mg/kg	NORMAL
5650	ZONE 3-257	19-Jun-88	0	0.16667	480729.4	1346931.0	Uranium, Total	21.9	J	mg/kg	NORMAL
6100	ZONE 1-130	26-Oct-88	0	0.5	480279.4	1347781.0	Uranium, Total	19.5	-	mg/kg	NORMAL
SS-23-055	CIS_SYSGEN_209		0	0.5	480454.7	1347245.8	Uranium, Total	20.1	UNV	mg/kg	NORMAL
SL-46-326	CIS_SYSGEN_339		0.16	0.5	480762.8	1346954.1	Uranium, Total	41.1	UNV	mg/kg	NORMAL
98363	1837	01-Jul-92			480868.6	1347258.1	Uranium, Total	9.3	J	MG/KG	DRILL CUTTINGS
98398	1836	09-Jul-92			481120.2	1347265.7	Uranium, Total	11.0	UNV	MG/KG	DRILL CUTTINGS
98352	1837	30-Jun-92	0	0.5	480868.6	1347258.1	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98354	1837	30-Jun-92	2	2.5	480868.6	1347258.1	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Uranium, Total	2.8	-	mg/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Uranium, Total	2.6	-	mg/kg	NORMAL
98359	1837	01-Jul-92	7	7.5	480868.6	1347258.1	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98316	1839	24-Jun-92	0	0.5	480463.3	1347681.0	Uranium, Total	37.0	NV	mg/kg	NORMAL
98364	1837	01-Jul-92			480868.6	1347258.1	Uranium, Total	11.0	UNV	MG/KG	DRILL CUTTINGS

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
98396	1836	09-Jul-92			481120.2	1347265.7	Uranium, Total	11.0	UNV	MG/KG	DRILL CUTTINGS
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Uranium, Total	3.7	J	mg/kg	NORMAL
98319	1839	24-Jun-92	3	3.5	480463.3	1347681.0	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Uranium, Total	2.6	J	mg/kg	NORMAL
98324	1839	24-Jun-92	6	6.5	480463.3	1347681.0	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98331	1839	24-Jun-92	11	11.5	480463.3	1347681.0	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98340	1839	25-Jun-92	15.5	16	480463.3	1347681.0	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98397	1836	09-Jul-92			481120.2	1347265.7	Uranium, Total	4.2	J	MG/KG	DRILL CUTTINGS
98392	1836	06-Jul-92	15	15.5	481120.2	1347265.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98395	1836	09-Jul-92			481120.2	1347265.7	Uranium, Total	11.4	J	MG/KG	DRILL CUTTINGS
98350	1839	29-Jun-92			480463.3	1347681.0	Uranium, Total	10.9	J	MG/KG	DRILL CUTTINGS
56035	1483	05-Dec-89		5	480463.6	1347552.5	Uranium, Total	5.7	NV	MG/KG	NORMAL
56019	1481	20-Nov-89	4.9	5.3	480882.2	1346874.7	Uranium, Total	2.0	-	mg/kg	NORMAL
56020	1481	20-Nov-89	9.8	10.2	480882.2	1346874.7	Uranium, Total	1.9	-	mg/kg	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.2	1346874.7	Uranium, Total	2.4	-	mg/kg	NORMAL
56032	1482	05-Dec-89		6.5	480462.3	1347578.1	Uranium, Total	3.8	NV	MG/KG	NORMAL
56033	1482	05-Dec-89		10	480462.3	1347578.1	Uranium, Total	1.8	UNV	MG/KG	NORMAL
56034	1482	05-Dec-89		14	480462.3	1347578.1	Uranium, Total	2.2	NV	MG/KG	NORMAL
56037	1484	05-Dec-89		5	480464.1	1347527.6	Uranium, Total	2.4	NV	MG/KG	NORMAL
56036	1483	05-Dec-89		8	480463.6	1347552.5	Uranium, Total	4.4	UNV	MG/KG	NORMAL
98383	1836	06-Jul-92	10	10.5	481120.2	1347265.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
56038	1484	05-Dec-89		8.5	480464.1	1347527.6	Uranium, Total	4.8	NV	MG/KG	NORMAL
98366	1836	02-Jul-92	0'	0.5	481120.2	1347265.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98370	1836	02-Jul-92	2	2.5	481120.2	1347265.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Uranium, Total	4.0	J	mg/kg	NORMAL
98375	1836	06-Jul-92	5	5.5	481120.2	1347265.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Uranium, Total	3.4	J	mg/kg	NORMAL
98348	1839	25-Jun-92	19.5	20	480463.3	1347681.0	Uranium, Total	11.0	UNV	mg/kg	NORMAL
8810	2008	21-Mar-88	13.5	15	480690.8	1347449.0	Uranium, Total	2.7	-	mg/kg	NORMAL
98351	1839	29-Jun-92			480463.3	1347681.0	Uranium, Total	11.0	UNV	MG/KG	DRILL CUTTINGS
56017	1480	20-Nov-89	9.9	10.3	480857.2	1346874.7	Uranium, Total	1.8	U	mg/kg	NORMAL
SS-23-080	CIS_SYSGEN_172		0	0.5	480341.1	1347742.9	Uranium, Total	32.4	UNV	mg/kg	NORMAL
SS-23-069	CIS_SYSGEN_163		0	0.5	480246.6	1347540.2	Uranium, Total	15.9	NV	mg/kg	NORMAL
SS-23-065	CIS_SYSGEN_164		0	0.5	480249.3	1347440.3	Uranium, Total	20.4	UNV	mg/kg	NORMAL
SS-23-061	CIS_SYSGEN_165		0	0.5	480252.1	1347340.3	Uranium, Total	25.8	UNV	mg/kg	NORMAL
SS-23-057	CIS_SYSGEN_166		0	0.5	480254.8	1347240.3	Uranium, Total	15.3	UNV	mg/kg	NORMAL
SS-23-097	CIS_SYSGEN_170		0	0.5	480335.6	1347942.8	Uranium, Total	16.2	NV	mg/kg	NORMAL
SS-23-088	CIS_SYSGEN_171		0	0.5	480338.3	1347842.8	Uranium, Total	12.3	NV	mg/kg	NORMAL
SS-46-207	CIS_SYSGEN_337		0	0.16	480757.3	1347154.1	Uranium, Total	18.6	NV	mg/kg	NORMAL
SS-23-074	CIS_SYSGEN_173		0	0.5	480343.8	1347642.9	Uranium, Total	12.0	NV	mg/kg	NORMAL
SS-23-081	CIS_SYSGEN_161		0	0.5	480241.1	1347740.1	Uranium, Total	10.8	NV	mg/kg	NORMAL
SS-23-064	CIS_SYSGEN_175		0	0.5	480349.3	1347443.0	Uranium, Total	34.5	UNV	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
SS-23-060	CIS_SYSGEN_176		0	0.5	480352.0	1347343.0	Uranium, Total	11.1	NV	mg/kg	NORMAL
SS-23-056	CIS_SYSGEN_177		0	0.5	480354.8	1347243.1	Uranium, Total	30.6	UNV	mg/kg	NORMAL
SS-23-096	CIS_SYSGEN_186		0	0.5	480435.6	1347945.5	Uranium, Total	14.4	NV	mg/kg	NORMAL
SS-23-086	CIS_SYSGEN_187		0	0.5	480438.3	1347845.6	Uranium, Total	26.1	UNV	mg/kg	NORMAL
SS-23-079	CIS_SYSGEN_188		0	0.5	480441.0	1347745.6	Uranium, Total	19.2	UNV	mg/kg	NORMAL
SS-23-075	CIS_SYSGEN_162		0	0.5	480243.8	1347640.2	Uranium, Total	12.6	NV	mg/kg	NORMAL
SS-23-098	CIS_SYSGEN_159		0	0.5	480235.6	1347940.1	Uranium, Total	20.7	NV	mg/kg	NORMAL
SS-23-089	CIS_SYSGEN_160		0	0.5	480238.4	1347840.1	Uranium, Total	18.3	UNV	mg/kg	NORMAL
8827	2008	23-Mar-88	55	56.5	480690.8	1347449.0	Uranium, Total	2.4	-	mg/kg	NORMAL
8272	3034	20-Mar-88	10.5	12	480269.6	1346962.4	Uranium, Total	1.8	-	mg/kg	NORMAL
32456	2032	06-Feb-90	7.5	9	480533.0	1346829.6	Uranium, Total	3.9	-	mg/kg	NORMAL
32465	2032	07-Feb-90	25	26.5	480533.0	1346829.6	Uranium, Total	1.8	-	mg/kg	NORMAL
32766	2033	05-Jun-90	40	40.5	480440.5	1347218.3	Uranium, Total	1.8	UJ	mg/kg	NORMAL
32773	2033	05-Jun-90			480440.5	1347218.3	Uranium, Total	2.8	UJ	MG/KG	DRILL CUTTINGS
33083	3032	23-Sep-90	95	96.5	480522.1	1346827.6	Uranium, Total	3.0	J	mg/kg	NORMAL
33090	3032	24-Sep-90			480522.1	1346827.6	Uranium, Total	1.6	J	MG/KG	DRILL CUTTINGS
8286	3034	21-Mar-88	50	51.5	480269.6	1346962.4	Uranium, Total	12.3	-	MG/KG	NORMAL
8279	3034	20-Mar-88	21	22.5	480269.6	1346962.4	Uranium, Total	2.7	-	mg/kg	NORMAL
SS-23-070	CIS_SYSGEN_153		0	0.5	480146.6	1347537.5	Uranium, Total	43.8	UNV	mg/kg	NORMAL
8295	3034	22-Mar-88	95	96.5	480269.6	1346962.4	Uranium, Total	1.8	U	mg/kg	NORMAL
SD-40-013	CIS_SYSGEN_146		0	0.42	480128.4	1347067.0	Uranium, Total	9.9	NV	mg/kg	NORMAL
SS-23-099	CIS_SYSGEN_149		0	0.5	480135.7	1347937.3	Uranium, Total	10.5	UNV	mg/kg	NORMAL
SS-23-090	CIS_SYSGEN_150'		0	0.5	480138.4	1347837.4	Uranium, Total	16.8	UNV	mg/kg	NORMAL
SS-23-083	CIS_SYSGEN_151		0	0.5	480141.1	1347737.4	Uranium, Total	19.2	NV	mg/kg	NORMAL
SS-23-076	CIS_SYSGEN_152		0	0.5	480143.9	1347637.5	Uranium, Total	14.4	UNV	mg/kg	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.2	1346874.7	Uranium, Total	6.7	-	mg/kg	NORMAL
56016	1480	20-Nov-89	4.8	5	480857.2	1346874.7	Uranium, Total	2.3	-	mg/kg	NORMAL
SS-23-143	CIS_SYSGEN_191		0	0.5	480445.4	1347840.8	Uranium, Total	19.2	UNV	mg/kg	NORMAL
121845	11150	16-Jul-93	3	3.5	480504.7	1346834.2	Uranium, Total	4.5	J	mg/kg	NORMAL
122329	11147	24-Jul-93	9.5	10.5	480468.4	1346815.3	Uranium, Total	7.5	J	mg/kg	NORMAL
121897	11148	23-Jul-93	4.5	5	480458.4	1346815.3	Uranium, Total	1.2	J	mg/kg	NORMAL
122303	11148	23-Jul-93	5	5.5	480458.4	1346815.3	Uranium, Total	2.1	J	mg/kg	NORMAL
122349	11149	24-Jul-93	3.5	4	480448.4	1346815.3	Uranium, Total	1.8	J	mg/kg	NORMAL
122350	11149	24-Jul-93	5	5.5	480448.4	1346815.3	Uranium, Total	2.7	J	mg/kg	NORMAL
122506	11149	24-Jul-93	3	3.5	480448.4	1346815.3	Uranium, Total	22.1	-	MG/KG	DUPLICATE
122033	11151	16-Jul-93	0.5	1	480494.7	1346834.2	Uranium, Total	12.3	-	mg/kg	NORMAL
121846	11150	16-Jul-93	4.5	5	480504.7	1346834.2	Uranium, Total	3.3	J	mg/kg	NORMAL
122307	11146	24-Jul-93	11.5	12	480478.4	1346815.3	Uranium, Total	8.1	J	mg/kg	NORMAL
122037	11151	16-Jul-93	5.5	6	480494.7	1346834.2	Uranium, Total	3.6	J	mg/kg	NORMAL
122018	11152	16-Jul-93	2.5	3	480484.7	1346834.2	Uranium, Total	20.1	J	mg/kg	NORMAL
122022	11152	16-Jul-93	5	5.5	480484.7	1346834.2	Uranium, Total	3.0	J	mg/kg	NORMAL
121634	11153	15-Jul-93	2.5	3.5	480474.7	1346834.2	Uranium, Total	10.2	J	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
121638	11153	15-Jul-93	4.5	6	480474.7	1346834.2	Uranium, Total	7.5	J	mg/kg	NORMAL
122002	11154	15-Jul-93	4	4.5	480464.7	1346834.2	Uranium, Total	3.2	-	mg/kg	NORMAL
122328	11147	23-Jul-93	6	6.5	480468.4	1346815.3	Uranium, Total	2.7	J	mg/kg	NORMAL
121880	11145	22-Jul-93	6.5	7	480488.4	1346815.3	Uranium, Total	2.4	J	mg/kg	NORMAL
122306	11146	23-Jul-93	8	8.5	480478.4	1346815.3	Uranium, Total	6.0	J	mg/kg	NORMAL
121787	11155	15-Jul-93	2.5	3	480454.7	1346834.2	Uranium, Total	26.6	J	mg/kg	NORMAL
119019	11068	30-Jun-93	10.5	11	480177.9	1347277.8	Uranium, Total	11.0	UNV	MG/KG	NORMAL
7504	1032	30-Oct-87	15	16.5	480544.7	1346827.9	Uranium, Total	3.9	-	mg/kg	NORMAL
8854	1033	08-Apr-88	1.5	3	480442.3	1347206.2	Uranium, Total	4.2	-	mg/kg	NORMAL
8188	1072	06-Mar-88	0	1.5	481055.3	1347007.4	Uranium, Total	45.0	-	mg/kg	NORMAL
119002	11068	29-Jun-93	0	0.5	480177.9	1347277.8	Uranium, Total	24.0	NV	MG/KG	NORMAL
119005	11068	29-Jun-93	2	2.5	480177.9	1347277.8	Uranium, Total	11.0	UNV	MG/KG	NORMAL
119009	11068	29-Jun-93	5	5.5	480177.9	1347277.8	Uranium, Total	11.0	UNV	MG/KG	NORMAL
119433	11079	30-Jun-93			481067.8	1347002.7	Uranium, Total	11.0	UNV	MG/KG	DRILL CUTTINGS
119026	11068	30-Jun-93	14.5	15	480177.9	1347277.8	Uranium, Total	11.0	UNV	MG/KG	NORMAL
121879	11145	21-Jul-93	4.5	5	480488.4	1346815.3	Uranium, Total	9.9	J	mg/kg	NORMAL
119708	11079	24-Jun-93	0	0.5	481067.8	1347002.7	Uranium, Total	22.0	NV	mg/kg	NORMAL
119711	11079	24-Jun-93	2	2.5	481067.8	1347002.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
119716	11079	24-Jun-93	5	5.5	481067.8	1347002.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
119725	11079	24-Jun-93	10	10.5	481067.8	1347002.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
119733	11079	25-Jun-93	15	15.5	481067.8	1347002.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
119734	11079	25-Jun-93	20	20.5	481067.8	1347002.7	Uranium, Total	11.0	UNV	mg/kg	NORMAL
122006	11154	15-Jul-93	5	5.5	480464.7	1346834.2	Uranium, Total	1.2	J	mg/kg	NORMAL
122058	11156	21-Jul-93	4	4.5	480511.1	1346863.2	Uranium, Total	10.8	J	mg/kg	NORMAL
121791	11155	15-Jul-93	5.5	6	480454.7	1346834.2	Uranium, Total	7.5	J	mg/kg	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.2	1346874.7	Uranium, Total	2.2	-	mg/kg	NORMAL
55998	1476	18-Nov-89	4.8	5.3	480394.8	1346823.5	Uranium, Total	9.0	J	mg/kg	NORMAL
121396	11165	10-Jul-93	4.5	6	480487.4	1346872.2	Uranium, Total	3.3	-	mg/kg	NORMAL
121610	11165	10-Jul-93	1.5	2	480487.4	1346872.2	Uranium, Total	2.7	J	mg/kg	NORMAL
121373	11166	09-Jul-93	3	4.5	480477.4	1346872.2	Uranium, Total	3.6	-	mg/kg	NORMAL
121377	11166	09-Jul-93	4.5	6	480477.4	1346872.2	Uranium, Total	2.9	-	mg/kg	NORMAL
121358	11167	08-Jul-93	4.5	6	480467.4	1346872.2	Uranium, Total	3.2	-	mg/kg	NORMAL
121380	11167	09-Jul-93	0	1.5	480467.4	1346872.2	Uranium, Total	6.3	J	mg/kg	NORMAL
56000	1476	18-Nov-89	14.8	15	480394.8	1346823.5	Uranium, Total	2.7	J	mg/kg	NORMAL
55999	1476	18-Nov-89	9.8	10	480394.8	1346823.5	Uranium, Total	10.5	J	mg/kg	NORMAL
121388	11164	10-Jul-93	4.5	6	480497.4	1346872.2	Uranium, Total	7.2	-	mg/kg	NORMAL
56001	1477	18-Nov-89	4.8	5	480419.8	1346823.5	Uranium, Total	3.0	J	mg/kg	NORMAL
56002	1477	18-Nov-89	9.8	10	480419.8	1346823.5	Uranium, Total	5.1	J	mg/kg	NORMAL
56003	1478	18-Nov-89	4.9	5.3	480444.8	1346823.5	Uranium, Total	1.8	UJ	mg/kg	NORMAL
56004	1478	18-Nov-89	9.3	9.7	480444.8	1346823.5	Uranium, Total	3.0	J	mg/kg	NORMAL
56013	1479	19-Nov-89	4.8	5	480832.2	1346874.7	Uranium, Total	2.0	-	mg/kg	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.2	1346874.7	Uranium, Total	2.4	-	mg/kg	NORMAL

Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
121392	11165	10-Jul-93	3	4.5	480487.4	1346872.2	Uranium, Total	3.2	-	mg/kg	NORMAL
121621	11163	11-Jul-93	3	4.5	480507.4	1346872.2	Uranium, Total	6.9	J	mg/kg	NORMAL
121384	11164	10-Jul-93	3	4.5	480497.4	1346872.2	Uranium, Total	2.7	J	mg/kg	NORMAL
122059	11156	21-Jul-93	5.5	6	480511.1	1346863.2	Uranium, Total	6.0	NV	mg/kg	NORMAL
121804	11159	14-Jul-93	1.5	3	480481.1	1346863.2	Uranium, Total	18.5	J	mg/kg	NORMAL
121752	11157	14-Jul-93	2	2.5	480501.1	1346863.2	Uranium, Total	45.2	J	mg/kg	NORMAL
121756	11157	14-Jul-93	5.5	6	480501.1	1346863.2	Uranium, Total	3.3	J	mg/kg	NORMAL
122104	11158	21-Jul-93	5.5	6	480491.1	1346863.2	Uranium, Total	4.3	J	mg/kg	NORMAL
122105	11158	22-Jul-93	7	7.5	480491.1	1346863.2	Uranium, Total	12.6	J	mg/kg	NORMAL
122106	11158	22-Jul-93	6.5	7	480491.1	1346863.2	Uranium, Total	6.1	-	MG/KG	DUPLICATE
121801	11159	14-Jul-93	4.5	6	480481.1	1346863.2	Uranium, Total	19.5	J	mg/kg	NORMAL
121760	11160	14-Jul-93	2	2.5	480471.1	1346863.2	Uranium, Total	10.0	-	mg/kg	NORMAL
121817	11159	14-Jul-93	2.5	3	480481.1	1346863.2	Uranium, Total	32.0	J	MG/KG	DUPLICATE
121619	11163	11-Jul-93	4.5	6	480507.4	1346872.2	Uranium, Total	6.3	J	mg/kg	NORMAL
121764	11160	14-Jul-93	5.5	6	480471.1	1346863.2	Uranium, Total	5.9	-	mg/kg	NORMAL
121642	11161	14-Jul-93	1.5	3	480461.1	1346863.2	Uranium, Total	6.6	-	mg/kg	NORMAL
121646	11161	14-Jul-93	4.5	6	480461.1	1346863.2	Uranium, Total	2.8	-	mg/kg	NORMAL
122517	11162	24-Jul-93	5	5.5	480517.4	1346872.2	Uranium, Total	3.6	J	mg/kg	NORMAL
122518	11162	25-Jul-93	6.5	7	480517.4	1346872.2	Uranium, Total	4.5	J	mg/kg	NORMAL
122525	11162	24-Jul-93	4.5	5	480517.4	1346872.2	Uranium, Total	3.4	-	MG/KG	DUPLICATE
SS-23-073	CIS_SYSGEN_190		0	0.5	480443.8	1347645.7	Uranium, Total	34.8	UNV	mg/kg	NORMAL
SS-23-068	CIS_SYSGEN_174		0	0.5	480346.5	1347543.0	Uranium, Total	18.6	UNV	mg/kg	NORMAL
SS-23-067	CIS_SYSGEN_192		0	0.5	480446.5	1347545.7	Uranium, Total	39.9	UNV	mg/kg	NORMAL
SS-23-063	CIS_SYSGEN_196		0	0.5	480449.2	1347445.7	Uranium, Total	13.2	NV	mg/kg	NORMAL
SS-23-049	CIS_SYSGEN_285		0	0.5	480488.0	1347270.7	Uranium, Total	20.7	NV	mg/kg	NORMAL
SL-23-159	CIS_SYSGEN_280		0.5	1	480485.4	1347731.8	Uranium, Total	26.7	UNV	mg/kg	NORMAL
SS-23-158	CIS_SYSGEN_280		0	0.5	480485.4	1347731.8	Uranium, Total	35.4	UNV	mg/kg	NORMAL
SL-23-149	CIS_SYSGEN_281		0.5	1	480485.6	1347908.9	Uranium, Total	21.3	UNV	mg/kg	NORMAL
SS-23-148	CIS_SYSGEN_281		0	0.5	480485.6	1347908.9	Uranium, Total	9.9	NV	mg/kg	NORMAL
SS-23-041	CIS_SYSGEN_282		0	0.5	480485.7	1347429.7	Uranium, Total	17.7	NV	mg/kg	NORMAL
SS-23-043	CIS_SYSGEN_283		0	0.5	480487.8	1347387.8	Uranium, Total	19.2	UNV	mg/kg	NORMAL
SS-23-045	CIS_SYSGEN_284		0	0.5	480488.0	1347346.8	Uranium, Total	14.4	NV	mg/kg	NORMAL
SS-23-170	CIS_SYSGEN_286		0	0.5	480489.0	1347493.8	Uranium, Total	436.7	NV	mg/kg	NORMAL
SL-23-171	CIS_SYSGEN_286		0.5	1	480489.0	1347493.8	Uranium, Total	29.4	NV	mg/kg	NORMAL
SS-23-162	CIS_SYSGEN_278		0	0.5	480485.0	1347639.8	Uranium, Total	214.2	J	mg/kg	NORMAL
SS-23-047	CIS_SYSGEN_287		0	0.5	480489.0	1347307.8	Uranium, Total	15.6	NV	mg/kg	NORMAL
SS-23-168	CIS_SYSGEN_288		0	0.5	480489.4	1347623.9	Uranium, Total	22.8	UNV	mg/kg	NORMAL
SS-23-051	CIS_SYSGEN_289		0	0.5	480491.2	1347226.8	Uranium, Total	24.0	UNV	mg/kg	NORMAL
SS-23-101	CIS_SYSGEN_290		0	0.5	480491.5	1347948.1	Uranium, Total	36.3	UNV	mg/kg	NORMAL
SS-23-157	CIS_SYSGEN_291		0	0.5	480493.1	1347744.0	Uranium, Total	11.4	NV	mg/kg	NORMAL
SS-23-141	CIS_SYSGEN_292		0	0.5	480493.8	1347830.1	Uranium, Total	12.9	NV	mg/kg	NORMAL
SL-23-183	CIS_SYSGEN_293		0.5	1	480494.0	1347858.1	Uranium, Total	14.4	UNV	mg/kg	NORMAL

Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
SS-23-180	CIS_SYSGEN_279		0	0.5	480485.3	1347955.9	Uranium, Total	19.8	UNV	mg/kg	NORMAL
SL-23-187	CIS_SYSGEN_278		1.5	2	480485.0	1347639.8	Uranium, Total	22.8	UNV	mg/kg	NORMAL
SS-23-104	CIS_SYSGEN_294		0	0.5	480494.3	1347848.1	Uranium, Total	28.8	UNV	mg/kg	NORMAL
SS-23-181	CIS_SYSGEN_271		0	0.5	480482.1	1347927.8	Uranium, Total	39.0	UNV	mg/kg	NORMAL
SL-23-112	CIS_SYSGEN_268		0.5	1	480480.2	1347629.6	Uranium, Total	36.9	UNV	mg/kg	NORMAL
SS-23-106	CIS_SYSGEN_200		0	0.5	480450.4	1347840.9	Uranium, Total	49.0	J	mg/kg	NORMAL
SL-23-114	CIS_SYSGEN_268		1	1.5	480480.2	1347629.6	Uranium, Total	35.7	UNV	mg/kg	NORMAL
SL-23-115QC	CIS_SYSGEN_268		1	1.5	480460.3	1347614.7	Uranium, Total	45.3	NV	MG/KG	SPLIT
SS-23-032	CIS_SYSGEN_268		0	0.5	480480.2	1347629.6	Uranium, Total	48.3	UNV	mg/kg	NORMAL
SS-23-107	CIS_SYSGEN_269		0	0.5	480480.8	1347829.7	Uranium, Total	42.6	UNV	mg/kg	NORMAL
SS-23-034	CIS_SYSGEN_270		0	0.5	480481.3	1347589.7	Uranium, Total	13.2	NV	mg/kg	NORMAL
SS-23-110	CIS_SYSGEN_273		0	0.5	480483.2	1347629.7	Uranium, Total	18.6	NV	mg/kg	NORMAL
SS-23-161	CIS_SYSGEN_272		0	0.5	480483.0	1347712.8	Uranium, Total	15.6	NV	mg/kg	NORMAL
SL-23-186	CIS_SYSGEN_278		1	1.5	480485.0	1347639.8	Uranium, Total	24.9	UNV	mg/kg	NORMAL
SS-23-037	CIS_SYSGEN_274		0	0.5	480483.5	1347509.7	Uranium, Total	22.8	NV	mg/kg	NORMAL
SL-23-188	CIS_SYSGEN_275		0.5	1	480484.1	1347523.7	Uranium, Total	17.4	NV	mg/kg	NORMAL
SS-23-169	CIS_SYSGEN_275		0	0.5	480484.1	1347523.7	Uranium, Total	28.5	NV	mg/kg	NORMAL
SL-23-177	CIS_SYSGEN_276		0.5	1	480484.3	1347919.9	Uranium, Total	13.8	UNV	mg/kg	NORMAL
SS-23-176	CIS_SYSGEN_276		0	0.5	480484.3	1347919.9	Uranium, Total	37.1	J	mg/kg	NORMAL
SS-23-039	CIS_SYSGEN_277		0	0.5	480484.6	1347468.7	Uranium, Total	14.1	NV	mg/kg	NORMAL
SL-23-163	CIS_SYSGEN_278		0.5	1	480485.0	1347639.8	Uranium, Total	75.9	UNV	mg/kg	NORMAL
SS-23-145	CIS_SYSGEN_293		0	0.5	480494.0	1347858.1	Uranium, Total	23.9	J	mg/kg	NORMAL
SL-23-182	CIS_SYSGEN_296		0.5	1	480496.1	1347928.2	Uranium, Total	20.7	UNV	mg/kg	NORMAL
SS-23-030	CIS_SYSGEN_266		0	0.5	480479.1	1347670.6	Uranium, Total	18.0	UNV	mg/kg	NORMAL
SD-34-001	CIS_SYSGEN_325		0	0.5	480735.3	1347922.7	Uranium, Total	87.3	NV	mg/kg	NORMAL
SL-46-617QC	CIS_SYSGEN_320		0.17	0.5	480676.8	1347743.7	Uranium, Total	82.5	NV	MG/KG	SPLIT
SS-46-615	CIS_SYSGEN_320		0	0.17	480696.8	1347758.6	Uranium, Total	159.2	NV	mg/kg	NORMAL
SS-46-320	CIS_SYSGEN_322		0	0.16	480711.5	1347002.7	Uranium, Total	9.6	NV	mg/kg	NORMAL
SL-46-571	CIS_SYSGEN_323		0.5	1	480712.1	1346977.8	Uranium, Total	69.0	UNV	mg/kg	NORMAL
SS-46-324	CIS_SYSGEN_323		0	0.16	480712.1	1346977.8	Uranium, Total	21.6	UNV	mg/kg	NORMAL
SL-46-621	CIS_SYSGEN_324		0	0.5	480728.6	1347765.5	Uranium, Total	88.5	NV	mg/kg	NORMAL
SS-46-620	CIS_SYSGEN_324		0	0.17	480728.6	1347765.5	Uranium, Total	294.2	NV	mg/kg	NORMAL
SL-46-619	CIS_SYSGEN_327		0.17	0.5	480739.0	1347822.8	Uranium, Total	72.0	NV	mg/kg	NORMAL
SS-46-322	CIS_SYSGEN_326		0	0.16	480737.8	1346953.4	Uranium, Total	18.3	NV	mg/kg	NORMAL
SS-46-214	CIS_SYSGEN_317		0	0.16	480649.2	1347451.2	Uranium, Total	427.3	-	mg/kg	NORMAL
SS-46-618	CIS_SYSGEN_327		0	0.17	480739.0	1347822.8	Uranium, Total	139.1	NV	mg/kg	NORMAL
SS-46-211	CIS_SYSGEN_330		0	0.16	480749.1	1347453.9	Uranium, Total	18.0	UNV	mg/kg	NORMAL
SS-46-210	CIS_SYSGEN_331		0	0.16	480751.9	1347354.0	Uranium, Total	26.4	UNV	mg/kg	NORMAL
SS-46-209	CIS_SYSGEN_332		0	0.16	480754.6	1347254.0	Uranium, Total	18.6	NV	mg/kg	NORMAL
SS-46-568	CIS_SYSGEN_335		0	0.17	480756.0	1347204.0	Uranium, Total	20.7	NV	mg/kg	NORMAL
SS-46-319	CIS_SYSGEN_336		0	0.5	480756.7	1347179.0	Uranium, Total	36.3	UNV	mg/kg	NORMAL
SL-46-327	CIS_SYSGEN_337		0.16	0.5	480757.3	1347154.1	Uranium, Total	9.0	NV	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
SL-46-616	CIS_SYSGEN_320		0.17	0.5	480696.8	1347758.6	Uranium, Total	92.1	NV	mg/kg	NORMAL
SS-23-071	CIS_SYSGEN_316		0	0.5	480643.7	1347651.1	Uranium, Total	28.5	UNV	mg/kg	NORMAL
SL-23-184QC	CIS_SYSGEN_296		1.5	2	480476.1	1347913.2	Uranium, Total	33.1	NV	MG/KG	SPLIT
SS-23-085	CIS_SYSGEN_303		0	0.5	480538.3	1347848.3	Uranium, Total	18.9	NV	mg/kg	NORMAL
SS-23-153	CIS_SYSGEN_296		0	0.5	480496.1	1347928.2	Uranium, Total	98.1	UNV	mg/kg	NORMAL
SS-23-144	CIS_SYSGEN_298		0	0.5	480510.4	1347844.6	Uranium, Total	13.2	NV	mg/kg	NORMAL
SL-23-196	CIS_SYSGEN_299		0.5	1	480511.5	1347948.6	Uranium, Total	42.3	UNV	mg/kg	NORMAL
SS-23-102	CIS_SYSGEN_299		0	0.5	480511.5	1347948.6	Uranium, Total	29.4	UNV	mg/kg	NORMAL
SS-23-103	CIS_SYSGEN_300		0	0.5	480531.5	1347949.2	Uranium, Total	22.5	UNV	mg/kg	NORMAL
SS-23-146	CIS_SYSGEN_301		0	0.5	480532.7	1347869.2	Uranium, Total	12.9	UNV	mg/kg	NORMAL
SS-23-094	CIS_SYSGEN_302		0	0.5	480535.5	1347948.3	Uranium, Total	21.3	NV	mg/kg	NORMAL
SS-23-154	CIS_SYSGEN_305		0	0.5	480541.3	1347956.4	Uranium, Total	15.0	NV	mg/kg	NORMAL
SS-23-078	CIS_SYSGEN_304		0	0.5	480541.0	1347748.4	Uranium, Total	28.5	UNV	mg/kg	NORMAL
SS-23-077	CIS_SYSGEN_315		0	0.5	480641.0	1347751.1	Uranium, Total	13.2	NV	mg/kg	NORMAL
SS-23-072	CIS_SYSGEN_306		0	0.5	480543.7	1347648.4	Uranium, Total	12.3	NV	mg/kg	NORMAL
SS-23-066	CIS_SYSGEN_307		0	0.5	480546.5	1347548.4	Uranium, Total	13.2	NV	mg/kg	NORMAL
SS-23-062	CIS_SYSGEN_308		0	0.5	480549.2	1347448.5	Uranium, Total	43.8	UNV	mg/kg	NORMAL
SS-23-058	CIS_SYSGEN_309		0	0.5	480551.9	1347348.5	Uranium, Total	12.3	NV	mg/kg	NORMAL
SS-23-054	CIS_SYSGEN_311		0	0.5	480554.7	1347248.5	Uranium, Total	20.4	UNV	mg/kg	NORMAL
SS-23-092	CIS_SYSGEN_313		0	0.5	480635.5	1347951.0	Uranium, Total	22.5	UNV	mg/kg	NORMAL
SS-23-084	CIS_SYSGEN_314		0	0.5	480638.2	1347851.0	Uranium, Total	16.2	UNV	mg/kg	NORMAL
SS-23-156	CIS_SYSGEN_267		0	0.5	480479.5	1347765.7	Uranium, Total	17.7	NV	mg/kg	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.4	1346831.0	Uranium, Total	13.5	-	mg/kg	NORMAL
SS-23-022	CIS_SYSGEN_246		0	0.5	480473.8	1347829.5	Uranium, Total	128.9	NV	mg/kg	NORMAL
SL-23-175	CIS_SYSGEN_248		0.5	1	480474.1	1347925.6	Uranium, Total	20.1	UNV	mg/kg	NORMAL
SL-23-123	CIS_SYSGEN_246		1	1.5	480473.8	1347829.5	Uranium, Total	14.1	UNV	mg/kg	NORMAL
SL-23-121	CIS_SYSGEN_224		1	1.5	480463.6	1347688.2	Uranium, Total	21.0	UNV	mg/kg	NORMAL
SL-23-119	CIS_SYSGEN_266		1	1.5	480479.1	1347670.6	Uranium, Total	12.9	UNV	mg/kg	NORMAL
SS-23-152	CIS_SYSGEN_247		0	0.5	480474.1	1347927.6	Uranium, Total	58.5	UNV	mg/kg	NORMAL
SL-23-120D	CIS_SYSGEN_224		0.5	1	480443.7	1347673.3	Uranium, Total	26.5	NV	MG/KG	DUPLICATE
SS-23-174	CIS_SYSGEN_248		0	0.5	480474.1	1347925.6	Uranium, Total	16.5	UNV	mg/kg	NORMAL
SL-23-122	CIS_SYSGEN_246		0.5	1	480473.8	1347829.5	Uranium, Total	22.8	UNV	mg/kg	NORMAL
SL-23-120	CIS_SYSGEN_224		0.5	1	480463.6	1347688.2	Uranium, Total	13.2	NV	mg/kg	NORMAL
SL-23-150	CIS_SYSGEN_249		0.5	1	480474.3	1347919.6	Uranium, Total	205.7	UNV	mg/kg	NORMAL
SL-23-172	CIS_SYSGEN_249		1	1.5	480474.3	1347919.6	Uranium, Total	26.4	UNV	mg/kg	NORMAL
SS-23-027	CIS_SYSGEN_223		0	0.5	480462.5	1347729.2	Uranium, Total	30.0	UNV	mg/kg	NORMAL
SL-23-172D	CIS_SYSGEN_249		1	1.5	480454.3	1347904.6	Uranium, Total	30.7	NV	MG/KG	DUPLICATE
SS-23-029	CIS_SYSGEN_224		0	0.5	480463.6	1347688.2	Uranium, Total	17.1	NV	mg/kg	NORMAL
SS-23-016	CIS_SYSGEN_244		0	0.5	480471.5	1347947.5	Uranium, Total	34.5	UNV	mg/kg	NORMAL
SS-23-018	CIS_SYSGEN_245		0	0.5	480472.6	1347908.5	Uranium, Total	54.3	UNV	mg/kg	NORMAL
SS-23-025	CIS_SYSGEN_221		0	0.5	480461.4	1347768.2	Uranium, Total	24.0	UNV	mg/kg	NORMAL
SS-23-155	CIS_SYSGEN_226		0	0.5	480464.4	1347768.3	Uranium, Total	12.9	NV	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
SL-23-142	CIS_SYSGEN_230		0.5	1	480465.4	1347841.3	Uranium, Total	54.3	UNV	mg/kg	NORMAL
SS-23-160	CIS_SYSGEN_231		0	0.5	480465.5	1347729.3	Uranium, Total	29.7	UNV	mg/kg	NORMAL
SL-23-116	CIS_SYSGEN_228		0.5	1	480464.7	1347648.2	Uranium, Total	28.8	UNV	mg/kg	NORMAL
SS-23-033	CIS_SYSGEN_233		0	0.5	480466.8	1347608.3	Uranium, Total	51.6	UNV	mg/kg	NORMAL
SS-23-140	CIS_SYSGEN_227		0	0.5	480464.6	1347688.2	Uranium, Total	63.6	UNV	mg/kg	NORMAL
SS-23-035	CIS_SYSGEN_236		0	0.5	480467.9	1347569.3	Uranium, Total	17.7	NV	mg/kg	NORMAL
SS-23-046	CIS_SYSGEN_243		0	0.5	480471.5	1347327.3	Uranium, Total	50.1	UNV	mg/kg	NORMAL
SS-23-036	CIS_SYSGEN_237		0	0.5	480468.0	1347529.3	Uranium, Total	23.1	UNV	mg/kg	NORMAL
SS-23-038	CIS_SYSGEN_238		0	0.5	480469.1	1347487.3	Uranium, Total	21.6	NV	mg/kg	NORMAL
SS-23-040	CIS_SYSGEN_240		0	0.5	480471.2	1347448.3	Uranium, Total	36.0	UNV	mg/kg	NORMAL
SS-23-042	CIS_SYSGEN_241		0	0.5	480471.3	1347408.3	Uranium, Total	13.5	NV	mg/kg	NORMAL
SS-23-044	CIS_SYSGEN_242		0	0.5	480471.4	1347366.3	Uranium, Total	16.5	NV	mg/kg	NORMAL
SL-23-173	CIS_SYSGEN_249		1.5	2	480474.3	1347919.6	Uranium, Total	12.0	UNV	mg/kg	NORMAL
SS-23-023	CIS_SYSGEN_220		0	0.5	480461.3	1347810.2	Uranium, Total	36.9	UNV	mg/kg	NORMAL
SL-23-117	CIS_SYSGEN_228		1	1.5	480464.7	1347648.2	Uranium, Total	21.0	UNV	mg/kg	NORMAL
SL-23-185QC	CIS_SYSGEN_249		1.5	2	480454.3	1347904.6	Uranium, Total	45.0	NV	MG/KG	SPLIT
SS-23-111	CIS_SYSGEN_211		0	0.5	480455.5	1347619.0	Uranium, Total	38.4	UNV	mg/kg	NORMAL
SS-23-139	CIS_SYSGEN_257		0	0.5	480476.7	1347648.6	Uranium, Total	63.0	UNV	mg/kg	NORMAL
SS-23-026	CIS_SYSGEN_258		0	0.5	480476.9	1347749.6	Uranium, Total	12.0	UNV	mg/kg	NORMAL
SS-23-015	CIS_SYSGEN_212		0	0.5	480457.1	1347964.1	Uranium, Total	36.0	UNV	mg/kg	NORMAL
SS-23-028	CIS_SYSGEN_259		0	0.5	480477.1	1347708.6	Uranium, Total	30.0	UNV	mg/kg	NORMAL
SS-23-052	CIS_SYSGEN_261		0	0.5	480477.8	1347205.4	Uranium, Total	30.3	UNV	mg/kg	NORMAL
SS-23-105	CIS_SYSGEN_262		0	0.5	480477.9	1347861.7	Uranium, Total	36.6	UNV	mg/kg	NORMAL
SS-23-109	CIS_SYSGEN_207		0	0.5	480453.6	1347687.9	Uranium, Total	40.8	UNV	mg/kg	NORMAL
SS-23-024	CIS_SYSGEN_255		0	0.5	480475.9	1347789.6	Uranium, Total	24.6	NV	mg/kg	NORMAL
SS-23-053	CIS_SYSGEN_263		0	0.5	480477.9	1347166.4	Uranium, Total	13.5	NV	mg/kg	NORMAL
SS-23-108	CIS_SYSGEN_264		0	0.5	480478.1	1347817.7	Uranium, Total	44.4	UNV	mg/kg	NORMAL
SS-23-147	CIS_SYSGEN_265		0	0.5	480478.5	1347875.7	Uranium, Total	14.7	NV	mg/kg	NORMAL
SL-23-118	CIS_SYSGEN_266		0.5	1	480479.1	1347670.6	Uranium, Total	15.9	NV	mg/kg	NORMAL
SS-23-059	CIS_SYSGEN_203		0	0.5	480452.0	1347345.8	Uranium, Total	11.7	NV	mg/kg	NORMAL
SS-23-050	CIS_SYSGEN_256		0	0.5	480476.7	1347246.4	Uranium, Total	27.0	UNV	mg/kg	NORMAL
SS-23-031	CIS_SYSGEN_228		0	0.5	480464.7	1347648.2	Uranium, Total	30.0	UNV	mg/kg	NORMAL
SS-23-151	CIS_SYSGEN_249		0	0.5	480474.3	1347919.6	Uranium, Total	359.8	UNV	mg/kg	NORMAL
SS-23-017	CIS_SYSGEN_213		0	0.5	480457.1	1347925.1	Uranium, Total	18.0	UNV	mg/kg	NORMAL
SL-23-179	CIS_SYSGEN_250		0.5	1	480474.5	1347912.6	Uranium, Total	7.5	UNV	mg/kg	NORMAL
SS-23-021	CIS_SYSGEN_217		0	0.5	480459.3	1347847.2	Uranium, Total	15.0	UNV	mg/kg	NORMAL
SS-23-178	CIS_SYSGEN_250		0	0.5	480474.5	1347912.6	Uranium, Total	21.9	UNV	mg/kg	NORMAL
SL-23-125	CIS_SYSGEN_217		1	1.5	480459.3	1347847.2	Uranium, Total	10.5	UNV	mg/kg	NORMAL
SL-23-124	CIS_SYSGEN_217		0.5	1	480459.3	1347847.2	Uranium, Total	16.8	UNV	mg/kg	NORMAL
SS-23-048	CIS_SYSGEN_251		0	0.5	480474.6	1347288.4	Uranium, Total	38.1	UNV	mg/kg	NORMAL
SL-23-126	CIS_SYSGEN_252		0.5	1	480474.7	1347867.6	Uranium, Total	25.5	UNV	mg/kg	NORMAL
SS-23-019	CIS_SYSGEN_214		0	0.5	480458.2	1347885.1	Uranium, Total	18.9	NV	mg/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
SL-23-127	CIS_SYSGEN_252		1	1.5	480474.7	1347867.6	Uranium, Total	17.4	UNV	mg/kg	NORMAL
SS-23-020	CIS_SYSGEN_252		0	0.5	480474.7	1347867.6	Uranium, Total	15.0	UNV	mg/kg	NORMAL
119432	11079	30-Jun-93			481067.8	1347002.7	Vinyl chloride	12.0	UJ	UG/KG	DRILL CUTTINGS
61182	WPA26	27-Apr-91	1.5	2	480252.8	1347340.8	Vinyl chloride	12.0	U	ug/kg	NORMAL
61175	WPA25	28-Apr-91	1.5	2	480155.6	1347238.1	Vinyl chloride	12.0	U	ug/kg	NORMAL
61196	WPA28	26-Apr-91	1.5	2	480350.0	1347443.5	Vinyl chloride	12.0	U	ug/kg	NORMAL
61189	WPA27	26-Apr-91	1.5	2	480355.5	1347243.6	Vinyl chloride	12.0	U	ug/kg	NORMAL
56039	1482	05-Dec-89	14	14	480462.3	1347578.1	Vinyl chloride	12.0	U	ug/kg	NORMAL
61168	WPA24	27-Apr-91	1.5	2	480258.2	1347140.9	Vinyl chloride	12.0	U	ug/kg	NORMAL
61225	WPA32	26-Apr-91	1.5	2	480549.9	1347449.0	Vinyl chloride	12.0	U	ug/kg	NORMAL
61140	WPA20	26-Apr-91	1.5	2	480466.4	1346846.5	Vinyl chloride	11.0	U	ug/kg	NORMAL
61252	WPA36	23-Apr-91	1.5	2	480724.8	1347453.7	Vinyl chloride	12.0	U	ug/kg	NORMAL
56005	1476	19-Nov-89	14.8	15	480394.8	1346823.5	Vinyl chloride	11.0	U	ug/kg	NORMAL
61245	WPA35	25-Apr-91	1.5	2	480755.3	1347254.5	Vinyl chloride	11.0	U	ug/kg	NORMAL
98376	1836	06-Jul-92	6	7	481120.2	1347265.7	Vinyl chloride	12.0	U	ug/kg	NORMAL
98356	1837	01-Jul-92	3	4	480868.6	1347258.1	Vinyl chloride	11.0	U	ug/kg	NORMAL
98372	1836	06-Jul-92	3	4	481120.2	1347265.7	Vinyl chloride	11.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.3	1346852.0	Vinyl chloride	11.0	U	ug/kg	NORMAL
61238	WPA34	25-Apr-91	1.5	2	480632.8	1347367.7	Vinyl chloride	12.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.2	1346857.4	Vinyl chloride	11.0	U	ug/kg	NORMAL
98358	1837	01-Jul-92	6	7	480868.6	1347258.1	Vinyl chloride	11.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.7	1346789.3	Vinyl chloride	12.0	U	ug/kg	NORMAL
61210	WPA30	24-Apr-91	1.5	2	480452.7	1347346.3	Vinyl chloride	12.0	U	ug/kg	NORMAL
61203	WPA29	28-Apr-91	1.5	2	480457.7	1347161.4	Vinyl chloride	12.0	U	ug/kg	NORMAL
61098	WPA14	25-Apr-91	1.5	2	481063.3	1346962.9	Vinyl chloride	12.0	U	ug/kg	NORMAL
123249	WP-SS-14	09-Jul-93	0	0.5	481047.0	1347185.9	Vinyl chloride	11.0	U	ug/kg	NORMAL
98323	1839	24-Jun-92	5	6	480463.3	1347681.0	Vinyl chloride	12.0	U	ug/kg	NORMAL
61147	WPA21	26-Apr-91	1.5	2	480251.1	1346846.9	Vinyl chloride	11.0	U	ug/kg	NORMAL
61217	WPA31	24-Apr-91	1.5	2	480503.3	1347281.2	Vinyl chloride	11.0	U	ug/kg	NORMAL
98318	1839	24-Jun-92	2	3	480463.3	1347681.0	Vinyl chloride	12.0	U	ug/kg	NORMAL
61105	WPA15	25-Apr-91	1.5	2	481057.9	1347162.8	Vinyl chloride	13.0	U	ug/kg	NORMAL
61258	WPA37	23-Apr-91	1.5	2	480858.0	1347157.3	Vinyl chloride	11.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.2	1346874.7	Vinyl chloride	11.0	U	ug/kg	NORMAL

Average Total U =	26.017	min total U/tc-99	1.200	0.100
Average Tc-99 =	7.04	max total U/Tc99	436.700	602.000

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Historical Data Summary for Area 7 Soils in the Silos Project Area (Area West of Silo 3 & 4)

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61133	WPA19	27-Apr-91	1.5	2	480666.263	1346851.992	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	1,1-Dichloroethene	11.0	U	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	1,1-Dichloroethene	11.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	1,1-Dichloroethene	5.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	1,1-Dichloroethene	12.0	U	ug/kg	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	1,1-Dichloroethene	6.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	1,1-Dichloroethene	5.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	1,2-Dichloroethane	5.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.263	1346851.992	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	1,2-Dichloroethane	12.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	1,2-Dichloroethane	5.0	U	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	1,2-Dichloroethane	11.0	U	ug/kg	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	1,2-Dichloroethane	6.0	U	ug/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	1,2-Dichloroethane	11.0	U	ug/kg	NORMAL
61511	WPA18	25-Jul-91	1.5	1.9	480866.165	1346857.389	alpha-Chlordane	1700.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	alpha-Chlordane	270.0	U	ug/kg	NORMAL
61512	WPA18	24-Jul-91	1.5	2	480866.165	1346857.389	alpha-Chlordane	870.0	U	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.165	1346857.389	alpha-Chlordane	340.0	U	ug/kg	NORMAL
61514	WPA18	25-Jul-91	1.3	1.8	480866.165	1346857.389	alpha-Chlordane	1700.0	U	ug/kg	NORMAL
61086	WPA13	21-Apr-91	0	0.5	481068.766	1346762.987	alpha-Chlordane	93.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	alpha-Chlordane	4.0	U	ug/kg	NORMAL
61128	WPA19	27-Apr-91	0	0.5	480666.263	1346851.992	alpha-Chlordane	90.0	U	ug/kg	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	bis(2-Chloroisopropyl) ether	380.0	U	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	bis(2-Chloroisopropyl) ether	360.0	U	ug/kg	NORMAL
61512	WPA18	24-Jul-91	1.5	2	480866.165	1346857.389	bis(2-Chloroisopropyl) ether	3500.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	bis(2-Chloroisopropyl) ether	370.0	U	ug/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	bis(2-Chloroisopropyl) ether	390.0	UJ	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	bis(2-Chloroisopropyl) ether	390.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.263	1346851.992	bis(2-Chloroisopropyl) ether	380.0	U	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.165	1346857.389	bis(2-Chloroisopropyl) ether	3500.0	U	ug/kg	NORMAL
61126	WPA18	27-Apr-91	1.5	2	480866.165	1346857.389	bis(2-Chloroisopropyl) ether	1800.0	U	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Bromodichloromethane	11.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.263	1346851.992	Bromodichloromethane	6.0	UJ	ug/kg	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	Bromodichloromethane	6.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	Bromodichloromethane	12.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	Bromodichloromethane	5.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	Bromodichloromethane	5.0	UJ	ug/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Bromodichloromethane	11.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	Chloroethane	12.0	U	ug/kg	NORMAL

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Historical Data Summary for Area 7 Soils in the Silos Project Area (Area West of Silo 3 & 4)

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Chloroethane	11.0	U	ug/kg	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	Chloroethane	11.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	Chloroethane	11.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	Chloroethane	11.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.263	1346851.992	Chloroethane	11.0	U	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Chloroethane	11.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	Chromium	16.8	J	mg/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	Chromium	13.0	-	mg/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Chromium	11.8	-	mg/kg	NORMAL
61128	WPA19	27-Apr-91	0	0.5	480666.263	1346851.992	Chromium	10.2	-	mg/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Chromium	10.5	-	mg/kg	NORMAL
61086	WPA13	21-Apr-91	0	0.5	481068.766	1346762.987	Chromium	11.9	-	mg/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	Chromium	15.8	-	mg/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Lead	13.2	-	mg/kg	NORMAL
61086	WPA13	21-Apr-91	0	0.5	481068.766	1346762.987	Lead	7.9	J	mg/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	Lead	8.5	-	mg/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Lead	9.5	-	mg/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	Mercury	0.1	UJ	mg/kg	NORMAL
61128	WPA19	27-Apr-91	0	0.5	480666.263	1346851.992	Mercury	0.1	U	mg/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	Mercury	0.1	U	mg/kg	NORMAL
61086	WPA13	21-Apr-91	0	0.5	481068.766	1346762.987	Mercury	0.1	U	mg/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Mercury	0.1	U	mg/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Mercury	0.1	U	mg/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Neptunium-237	0.8	J	pCi/g	NORMAL
56013	1479	19-Nov-89	4.8	5	480832.205	1346874.74	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56020	1481	20-Nov-89	9.8	10.2	480882.206	1346874.739	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56016	1480	20-Nov-89	4.8	5	480857.205	1346874.739	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56017	1480	20-Nov-89	9.9	10.3	480857.205	1346874.739	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56019	1481	20-Nov-89	4.9	5.3	480882.206	1346874.739	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.205	1346874.739	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.205	1346874.74	Neptunium-237	0.6	UJ	pCi/g	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Neptunium-237	0.3	J	pCi/g	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.206	1346874.739	Neptunium-237	0.6	UJ	pCi/g	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.205	1346874.74	Neptunium-237	0.6	UJ	pCi/g	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.367	1346830.987	Neptunium-237	0.6	U	pCi/g	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.205	1346874.74	Strontium-90	0.5	UJ	pCi/g	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Strontium-90	0.5	UJ	pCi/g	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.205	1346874.74	Strontium-90	0.5	U	pCi/g	NORMAL
56017	1480	20-Nov-89	9.9	10.3	480857.205	1346874.739	Strontium-90	0.5	U	pCi/g	NORMAL

000023

Historical Data Summary for Area 7 Soils in the Silos Project Area (Area West of Silo 3 & 4)

Sample ID	Location ID	Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
56019	1481	20-Nov-89	4.9	5.3	480882.206	1346874.739	Strontium-90	0.5	U	pCi/g	NORMAL
56013	1479	19-Nov-89	4.8	5	480832.205	1346874.74	Strontium-90	0.5	U	pCi/g	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.367	1346830.987	Strontium-90	0.5	U	pCi/g	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Strontium-90	0.5	UJ	pCi/g	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.206	1346874.739	Strontium-90	0.5	U	pCi/g	NORMAL
56020	1481	20-Nov-89	9.8	10.2	480882.206	1346874.739	Strontium-90	0.5	U	pCi/g	NORMAL
56016	1480	20-Nov-89	4.8	5	480857.205	1346874.739	Strontium-90	0.5	U	pCi/g	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.205	1346874.739	Strontium-90	0.5	U	pCi/g	NORMAL
56014	1479	19-Nov-89	9.8	10	480832.205	1346874.74	Technetium-99	1.0	U	pCi/g	NORMAL
56016	1480	20-Nov-89	4.8	5	480857.205	1346874.739	Technetium-99	1.0	U	pCi/g	NORMAL
56017	1480	20-Nov-89	9.9	10.3	480857.205	1346874.739	Technetium-99	1.0	U	pCi/g	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Technetium-99	1.0	UJ	pCi/g	NORMAL
56015	1479	19-Nov-89	14.6	15	480832.205	1346874.74	Technetium-99	1.0	U	pCi/g	NORMAL
56021	1481	20-Nov-89	14.6	15	480882.206	1346874.739	Technetium-99	1.0	U	pCi/g	NORMAL
56019	1481	20-Nov-89	4.9	5.3	480882.206	1346874.739	Technetium-99	1.0	U	pCi/g	NORMAL
5423	ZONE 3-279	15-Sep-88	0	0.16667	481029.367	1346830.987	Technetium-99	1.0	U	pCi/g	NORMAL
56020	1481	20-Nov-89	9.8	10.2	480882.206	1346874.739	Technetium-99	1.0	U	pCi/g	NORMAL
56013	1479	19-Nov-89	4.8	5	480832.205	1346874.74	Technetium-99	1.0	U	pCi/g	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Technetium-99	1.0	UJ	pCi/g	NORMAL
56018	1480	20-Nov-89	14.7	15	480857.205	1346874.739	Technetium-99	1.0	U	pCi/g	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	Tetrachloroethene	6.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	Tetrachloroethene	5.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	Tetrachloroethene	5.0	U	ug/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Tetrachloroethene	11.0	U	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Tetrachloroethene	11.0	U	ug/kg	NORMAL
61133	WPA19	27-Apr-91	1.5	2	480666.263	1346851.992	Tetrachloroethene	6.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	Tetrachloroethene	12.0	U	ug/kg	NORMAL
61086	WPA13	21-Apr-91	0	0.5	481068.766	1346762.987	Toxaphene	190.0	U	ug/kg	NORMAL
61128	WPA19	27-Apr-91	0	0.5	480666.263	1346851.992	Toxaphene	180.0	U	ug/kg	NORMAL
61515	WPA18	25-Jul-91	0.5	1	480866.165	1346857.389	Toxaphene	670.0	U	ug/kg	NORMAL
61514	WPA18	25-Jul-91	1.3	1.8	480866.165	1346857.389	Toxaphene	3500.0	U	ug/kg	NORMAL
61512	WPA18	24-Jul-91	1.5	2	480866.165	1346857.389	Toxaphene	1700.0	U	ug/kg	NORMAL
61511	WPA18	25-Jul-91	1.5	1.9	480866.165	1346857.389	Toxaphene	3500.0	U	ug/kg	NORMAL
61121	WPA18	27-Apr-91	0	0.5	480866.165	1346857.389	Toxaphene	540.0	U	ug/kg	NORMAL
121093	SS-32	08-Jul-93	0	0.5	480974.666	1346789.288	Toxaphene	400.0	U	ug/kg	NORMAL
123409	WP-SS-17	13-Jul-93	0	0.5	480992.065	1346717.238	Trichloroethene	6.0	J	ug/kg	NORMAL
123268	WP-SS-16	09-Jul-93	0	0.5	481131.797	1346770.376	Trichloroethene	11.0	U	ug/kg	NORMAL
61091	WPA13	21-Apr-91	1.5	2	481068.766	1346762.987	Trichloroethene	6.0	U	ug/kg	NORMAL
56022	1481	20-Nov-89	15	15	480882.206	1346874.739	Trichloroethene	5.0	U	ug/kg	NORMAL

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3149

Historical Data Summary for Area 7 Soils in the Silos Project Area (Area West of Silo 3 & 4)

Sample ID	Location ID		Date Collected	Top Depth	Bottom Depth	Northing	Easting	Analyte	Result	Valid. Qual.	Units	Sample Type
61133	WPA19		27-Apr-91	1.5	2	480666.263	1346851.992	Trichloroethene	6.0	U	ug/kg	NORMAL
121093	SS-32		08-Jul-93	0	0.5	480974.666	1346789.288	Trichloroethene	12.0	U	ug/kg	NORMAL
61121	WPA18		27-Apr-91	0	0.5	480866.165	1346857.389	Trichloroethene	5.0	U	ug/kg	NORMAL
56017		1480	20-Nov-89	9.9	10.3	480857.205	1346874.739	Uranium, Total	1.8	U	mg/kg	NORMAL
56020		1481	20-Nov-89	9.8	10.2	480882.206	1346874.739	Uranium, Total	1.9	-	mg/kg	NORMAL
56019		1481	20-Nov-89	4.9	5.3	480882.206	1346874.739	Uranium, Total	2.0	-	mg/kg	NORMAL
56018		1480	20-Nov-89	14.7	15	480857.205	1346874.739	Uranium, Total	6.7	-	mg/kg	NORMAL
56016		1480	20-Nov-89	4.8	5	480857.205	1346874.739	Uranium, Total	2.3	-	mg/kg	NORMAL
123268	WP-SS-16		09-Jul-93	0	0.5	481131.797	1346770.376	Uranium, Total	2.8	-	mg/kg	NORMAL
56021		1481	20-Nov-89	14.6	15	480882.206	1346874.739	Uranium, Total	2.4	-	mg/kg	NORMAL
123409	WP-SS-17		13-Jul-93	0	0.5	480992.065	1346717.238	Uranium, Total	3.4	-	mg/kg	NORMAL
56015		1479	19-Nov-89	14.6	15	480832.205	1346874.74	Uranium, Total	2.2	-	mg/kg	NORMAL
56014		1479	19-Nov-89	9.8	10	480832.205	1346874.74	Uranium, Total	2.4	-	mg/kg	NORMAL
56013		1479	19-Nov-89	4.8	5	480832.205	1346874.74	Uranium, Total	2.0	-	mg/kg	NORMAL
5423	ZONE 3-279		15-Sep-88	0	0.16667	481029.367	1346830.987	Uranium, Total	13.5	-	mg/kg	NORMAL
123409	WP-SS-17		13-Jul-93	0	0.5	480992.065	1346717.238	Vinyl chloride	11.0	U	ug/kg	NORMAL
61133	WPA19		27-Apr-91	1.5	2	480666.263	1346851.992	Vinyl chloride	11.0	U	ug/kg	NORMAL
61091	WPA13		21-Apr-91	1.5	2	481068.766	1346762.987	Vinyl chloride	11.0	U	ug/kg	NORMAL
121093	SS-32		08-Jul-93	0	0.5	480974.666	1346789.288	Vinyl chloride	12.0	U	ug/kg	NORMAL
123268	WP-SS-16		09-Jul-93	0	0.5	481131.797	1346770.376	Vinyl chloride	11.0	U	ug/kg	NORMAL
56022		1481	20-Nov-89	15	15	480882.206	1346874.739	Vinyl chloride	11.0	U	ug/kg	NORMAL
61121	WPA18		27-Apr-91	0	0.5	480866.165	1346857.389	Vinyl chloride	11.0	U	ug/kg	NORMAL
61515	WPA18		25-Jul-91	0.5	1	480866.165	1346857.389	4-NITROANILINE	17000.0	UJ	ug/kg	NORMAL
61133	WPA19		27-Apr-91	1.5	2	480666.263	1346851.992	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
56022		1481	20-Nov-89	15	15	480882.206	1346874.739	4-NITROANILINE	1800.0	UJ	ug/kg	NORMAL
61512	WPA18		24-Jul-91	1.5	2	480866.165	1346857.389	4-NITROANILINE	17000.0	UJ	ug/kg	NORMAL
61126	WPA18		27-Apr-91	1.5	2	480866.165	1346857.389	4-NITROANILINE	8700.0	U	ug/kg	NORMAL
61091	WPA13		21-Apr-91	1.5	2	481068.766	1346762.987	4-NITROANILINE	1900.0	U	ug/kg	NORMAL
121093	SS-32		08-Jul-93	0	0.5	480974.666	1346789.288	4-NITROANILINE	980.0	U	ug/kg	NORMAL

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APPENDIX D

V/FCNs TO THE PROJECT SPECIFIC PLAN

VARIANCE / FIELD CHANGE NOTICE	V 20500-001-1
WBS NO.: PROJECT/DOCUMENT ECDC #20500-PSP-0001 Rev0.	Page 1 of 1
PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils	Date: 10/6/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

3149

Justification:

The use of a background radon monitor is not needed in acquiring data for WAC Attainment with HPGe's. Since uranium is the isotope of concern for WAC, the radium peaks will not interfere with the peaks used to determine uranium levels. Since there is no current need for radium concentrations, a radon monitor is not needed. In addition, this spectral data cannot be used in the future to generate radium concentrations since there will be no radon background data.

The use of a background radon monitor must be used with NaI detection systems (R-TRAK and RSS). Since the NaI systems has lower resolution than the HPGe's, the NaI systems have difficulty distinguishing between the 1001 keV uranium peak and the 1120 keV radium. This could lead to a false higher reading of uranium levels.

Field Change Notice:

A background radon monitor is not needed during the collection of HPGe measurements.

A background radon monitor will be utilized during the collection of NaI measurements to obtain background radon information from the time that data collection begins until after the final measurement is taken. The monitor will be placed in one location (as close proximity to the NaI system as possible) for the day where it will be set at the same height as the NaI system (31 cm) to collect continuous data and record background radon information at 15-minute intervals.

ORIGINAL

REQUESTED BY: Darren Wessel DATE: 10/6/98

X IF REQD	VARIANCE/FAN APPROVAL	DATE	X IF REQD	VARIANCE/FAN APPROVAL	DATE
X	QUALITY ASSURANCE	10-6-98	X	PROJECT MANAGER	10/7/98
	DATA QUALITY MANAGEMENT		X	Real-time Program Mgr	10/8/98
	ANALYTICAL CUSTOMER SUPPORT		X	Characterization Lead	10/6/98
	OTHER			OTHER	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Michelle Tudor	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:

VARIANCE / FIELD CHANGE NOTICE	20500-PSP-0001-2
WBS NO.: 20500-PSP-0001 Rev.0	Page 1 of 1
PROJECT TITLE: PSP for Sampling of Area 7 Soils (Silos Project-Phase1)	Date: 10/20/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

3149

Justification:

PSP Section 3.2 Detection of Potential Soil WAC Exceedance Areas Using the HPGe called for the use of a radon monitor during HPGe data collection for total uranium (WAC) data. This requirement was in error and was removed from the PSP in Variance 20500-001-1 on 10/6/98 (a radon monitor is only used for radium data requiring a radon correction).

Variance 20500-001-1 called for a radon monitor to be used with RTRAK/RSS for collection of total uranium (WAC) data. This is also in error (a radon monitor is used only for radium data requiring a radon correction). This PSP calls only for the collection of data for total uranium to yield a soil WAC decision.

Field Change Notice:
No radon monitor will be used during total uranium WAC data collection with the RTRAK/RSS or HPGe systems.

REQUESTED BY: Darren Wessel DATE: 10/20/98

X IF REQD	VARIANCE/FAN APPROVAL	DATE	X IF REQD	VARIANCE/FAN APPROVAL	DATE
	QUALITY ASSURANCE	10-20-98	X	PROJECT MANAGER	10/20/98
	DATA QUALITY MANAGEMENT		X	Real-time Program Mgr	10/20/98
	ANALYTICAL CUSTOMER SUPPORT		X	OTHER	10/20/98
	OTHER			OTHER	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Michelle Tudor	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
		000078

ORIGINAL

VARIANCE / FIELD CHANGE NOTICE	V/F 20500PSP01-3
WBS NO.: 20500PSP01	Page 1 of 1
PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils	Date: 11/4/98

VARIANCE / FIELD CHANGE NOTICE (Include justification): 20500-PSP-0001 Rev.0 3149

Prior to sampling of Area E (proposed laydown area for the Silos Project), the WPRAP project began stockpiling soil in the northeast portion of this area. This activity made sample locations E9 and E11 inaccessible due to the overlying soil stockpile. These locations will be sampled following removal of the stockpile which will be used to backfill the excavation where the soil originated. The excavations are located north and south of Second Street for the purpose of utility connections for the WPRAP. The attached figure illustrates the approximate stockpile and excavation locations.

Variance:

In addition to the sampling of locations E9 and E11 following removal of overlying soil, samples will be collected from the stockpiled soil and held in archival storage. Ten samples will be collected from around the base of the stockpile, approximately spaced to be representative of the full circumference of the stockpile as follows:

- If top soil (darker, humus-containing soil) or discolored soil is observed around the base of the pile (within bottom five feet of pile), then these locations will be selected for sample collection.
- At each selected sampling location, an approximate 3 feet X 3 feet area will be surveyed using a beta/gamma probe and survey rate meter. If above-background activity exists, then this soil will be sampled; otherwise the sample will be collected randomly from the selected 3' X 3' area. All ten samples will be archived.
- The ten samples will be collected from the surface of the stockpile using a scoop per procedure SMPL-01. One liter (plastic or glass) of soil should be collected from each sample point. No decontamination of the scoop is necessary between locations.
- A sketch of the stockpile with references to surrounding features will be included in the Field Activity Log.

The sample identifiers will be sequentially assigned as samples are collected as follows: A7-E12-V through A7-E21-V. Samples will be maintained in archival storage until completion and approval of the Area 7 WAC Attainment Report at which time they will be dispositioned to the area where the stockpile was used as backfill.

Sample points will be surveyed following sampling to determine northing, easting, and elevation values.

Justification:

Collection of the samples from the soil stockpile are necessary as a contingency that characterization analysis may need to be performed in the future at the request of the regulators or for other purposes.

REQUESTED BY: Mike Frank Date: 11/4/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE [signature]	11-4-98	X	CHARACTERIZATION LEAD [signature]	11-4-98
	DATA QUALITY MANAGEMENT		X	FIELD MANAGER Thomas Bailey	11/4/98
	ANALYTICAL CUSTOMER SUPPORT			OTHER	
	OTHER			OTHER	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeanie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

000079

ORIGINAL

VARIANCE / FIELD CHANGE NOTICE	V/F 20500PSP01-4
WBS NO.: 20500PSP01	Page 1 of 1
PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils	Date: 11/16/98

VARIANCE / FIELD CHANGE NOTICE (Include justification): 20500-PSP-0001 Rev.0 **3149**

Prior to sampling of Area E (proposed laydown area for the Silos Project), the WPRAP project began stockpiling soil in the northeast portion of this area. This activity made sample locations E9 and E11 temporarily inaccessible due to the overlying soil stockpile. Following removal of the stockpile, approximately one to two feet of soil was spread of the area thereby covering the original surface soil that existed when the PSP was developed.

Variance:

The original coordinate location for sample points A7-E9 and A7-E11 will apply. However, several samples will be collected from the new soil fill layer as well as the original surface elevation rather than a single sample as originally planned. Since some of the stockpiled soil was spread over the area, the elevation increased at points A7-E9 and A7-E11 by 1.7 feet and 1.0 foot, respectively.

The following depth intervals will be collected:

A7-E9: 0-0.5 ft., 1.0-1.5 ft., 2.0-2.5 ft.
A7-E11: 0-0.5 ft., 1.0-1.5 ft.

All sample intervals will be analyzed for Lead, Chromium, Technetium-99 and Total Uranium.

Justification:

Collection of the samples from this area are necessary due to the original sampling strategy in the PSP. Additionally, sampling and WAC characterization of the new soil fill placed in this area is necessary.

ORIGINAL

REQUESTED BY: Mike Frank Date: 11/16/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE	11-16-98	X	CHARACTERIZATION LEAD	11-16-98
	DATA QUALITY MANAGEMENT		X	FIELD MANAGER	11-16-98
	ANALYTICAL CUSTOMER SUPPORT			OTHER	
	OTHER			OTHER	

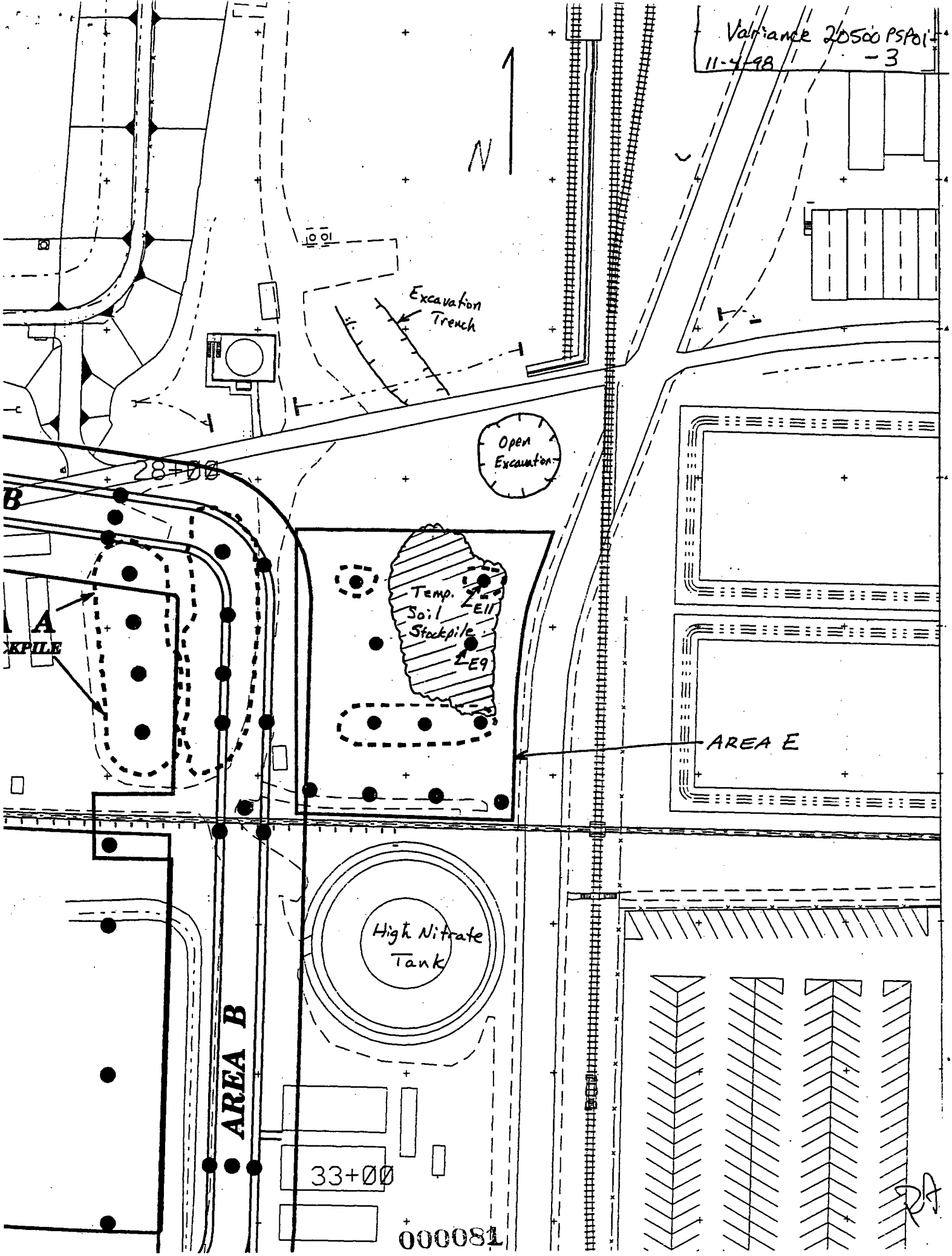
VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeanie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

Variance 20500 PSP01-3
11-4-98



VARIANCE / FIELD CHANGE NOTICE	V/F 20500PSP01-5
WBS NO.: 20500PSP01	Page 1 of 1
PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils	Date: 11/23/98

VARIANCE / FIELD CHANGE NOTICE (Include justification): 20500-PSP-0001 Rev.0

3149

This variance documents the final list of samples collected from the Silos Project Area for WAC attainment purposes. The attached Table B-1 (from Appendix B of the PSP) has been revised to include all samples, final depth intervals, and analytes. This includes biased samples collected from Area D (point D11) and additional samples collected from Area E due to the temporary stockpiling of soil and subsequent spreading of the soil in the area. The final coordinates and elevation data were forwarded to the Data Management contact for inclusion in the SED.

Justification:

The attached, revised Table B-1 provides a summary of the final samples collected for WAC attainment evaluation.

ORIGINAL

REQUESTED BY: Mike Frank Date: 11/23/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE	11-23-98	X	CHARACTERIZATION LEAD Mike Frank	11/23/98
	DATA QUALITY MANAGEMENT		X	FIELD MANAGER Tom Bullag for MIKE FRANK	
	ANALYTICAL CUSTOMER SUPPORT			OTHER	
	OTHER			OTHER	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeanie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

TABLE B-1

SILOS PROJECT AREA WAC SAMPLE LOCATIONS, DEPTHS, AND ANALYTES (FINAL)

3149

Area	Sample Identifier	Discrete Sample Interval (feet)	Target Analytes
A	A7-A1-1-R	0-0.5	Total U/Tc-99
A	A7-A1-14-R	6.5-7.0	Total U/Tc-99
A	A7-A2-2-R	0.5-1.0	Total U/Tc-99
A	A7-A2-6-R	2.5-3.0	Total U/Tc-99
A	A7-A3-9-R	4.0-4.5	Total U/Tc-99
A	A7-A3-14-R	6.5-7.0	Total U/Tc-99
A	A7-A4-10-R	4.5-5.0	Total U/Tc-99
A	A7-A4-14-R	6.5-7.0	Total U/Tc-99
A	A7-A5-4-R	1.5-2.0	Total U/Tc-99
A	A7-A5-6-R	2.5-3.0	Total U/Tc-99
A	A7-A6-5-R	2.0-2.5	Total U/Tc-99
A	A7-A6-7-R	3.0-3.5	Total U/Tc-99
A	A7-A7-5-R	2.0-2.5	Total U/Tc-99
A	A7-A7-17-R	8.0-8.5	Total U/Tc-99
A	A7-A8-3-R	1.0-1.5	Total U/Tc-99
A	A7-A8-10-R	4.5-5.0	Total U/Tc-99
B	A7-B1-1-R	0-.5	Tc-99
B	A7-B2-1-R	0-.5	Tc-99
B	A7-B2-5-R	2-2.5	Total U/Tc-99
B	A7-B3-1-R	0-.5	Tc-99
B	A7-B3-3-R	1-1.5	Total U/Tc-99
B	A7-B3-6-R	2.5-3	Total U/Tc-99
B	A7-B4-1-R	0-.5	Tc-99
B	A7-B5-1-R	0-.5	Tc-99
B	A7-B5-3-R	1-1.5	Total U/Tc-99
B	A7-B6-1-R	0-.5	Tc-99
B	A7-B6-3-R	1-1.5	Total U/Tc-99
B	A7-B6-6-R	2.5-3	Total U/Tc-99
B	A7-B7-1-R	0-.5	Tc-99
B	A7-B8-1-R	0-.5	Tc-99
B	A7-B9-1-R	0-.5	Tc-99
B	A7-B9-4-R	1.5-2	Total U/Tc-99
B	A7-B9-7-R	3-3.5	Total U/Tc-99
B	A7-B10-1-R	0-.5	Tc-99
B	A7-B11-1-R	0-.5	Tc-99
B	A7-B12-1-R	0-.5	Tc-99
B	A7-B12-5-R	2-2.5	Total U/Tc-99
B	A7-B13-1-R	0-.5	Tc-99
B	A7-B14-1-R	0-.5	Tc-99
B	A7-B15-1-R	0-.5	Tc-99
B	A7-B16-1-R	0-.5	Total U/Tc-99
B	A7-B17-1-R	0-.5	Tc-99
B	A7-B17-4-R	1.5-2	Total U/Tc-99
B	A7-B18-1-R	0-.5	Tc-99
B	A7-B19-1-R	0-.5	Total U/Tc-99
B	A7-B19-1-M	0-.5	Chromium/Lead
B	A7-B20-1-R	0-.5	Tc-99
B	A7-B20-1-M	0-.5	Chromium/Lead
B	A7-B21-1-R	0-.5	Tc-99
B	A7-B21-1-M	0-.5	Chromium/Lead
B	A7-B22-1-R	0-.5	Total U/Tc-99

Area	Sample Identifier	Discrete Sample Interval (feet)	Target Analytes
B	A7-B22-1-M	0-.5	Chromium/Lead
B	A7-B23-1-R	0-.5	Tc-99
B	A7-B23-1-M	0-.5	Chromium/Lead
B	A7-B24-1-R	0-.5	Tc-99
B	A7-B24-1-M	0-.5	Chromium/Lead
B	A7-B25-1-R	0-.5	Total U/Tc-99
B	A7-B26-1-R	0-.5	Total U/Tc-99
B	A7-B27-1-R	0-.5	Tc-99
B	A7-B28-1-R	0-.5	Total U/Tc-99
B	A7-B29-1-R	0-.5	Total U/Tc-99
B	A7-B29-3-R	1-1.5	Total U/Tc-99
B	A7-B30-1-R	0-.5	Total U/Tc-99
B	A7-B30-4-R	1.5-2	Total U/Tc-99
B	A7-B31-1-R	0-.5	Total U/Tc-99
B	A7-B32-1-R	0-.5	Total U/Tc-99
B	A7-B32-3-R	1-1.5	Total U/Tc-99
B	A7-B33-1-R	0-.5	Tc-99
B	A7-B33-3-R	1-1.5	Total U/Tc-99
B	A7-B34-1-R	0-.5	Total U/Tc-99
B	A7-B35-1-R	0-.5	Total U/Tc-99
B	A7-B35-4-R	1.5-2	Total U/Tc-99
B	A7-B36-1-R	0-.5	Tc-99
B	A7-B36-4-R	1.5-2	Total U/Tc-99
B	A7-B37-1-R	0-.5	Total U/Tc-99
B	A7-B38-1-R	0-.5	Total U/Tc-99
B	A7-B39-1-R	0-.5	Total U/Tc-99
B	A7-B39-4-R	1.5-2	Total U/Tc-99
B	A7-B40-1-R	0-.5	Total U/Tc-99
B	A7-B41-1-R	0-.5	Total U/Tc-99
B	A7-B42-1-R	0-.5	Tc-99
B	A7-B42-5-R	2-2.5	Total U/Tc-99
B	A7-B43-1-R	0-.5	Tc-99
B	A7-B44-1-R	0-.5	Tc-99
B	A7-B45-1-R	0-.5	Tc-99
B	A7-B45-4-R	1.5-2	Total U/Tc-99
B	A7-B46-1-R	0-.5	Tc-99
B	A7-B47-1-R	0-.5	Tc-99
B	A7-B47-3-R	1-1.5	Total U/Tc-99
B	A7-B48-1-R	0-.5	Tc-99
B	A7-B49-1-R	0-.5	Tc-99
B	A7-B50-1-R	0-.5	Tc-99
B	A7-B50-3-R	1-1.5	Total U/Tc-99
B	A7-B51-1-R	0-.5	Tc-99
B	A7-B51-3-R	1-1.5	Total U/Tc-99
B	A7-B52-1-R	0-.5	Tc-99
B	A7-B53-1-R	0-.5	Tc-99
B	A7-B54-1-R	0-.5	Tc-99
B	A7-B55-1-R	0-.5	Tc-99
B	A7-B56-1-R	0-.5	Tc-99
B	A7-B57-1-R	0-.5	Total U/Tc-99
B	A7-B57-4-R	1.5-2	Total U/Tc-99
B	A7-B57-7-R	3-3.5	Total U/Tc-99
B	A7-B58-1-R	0-.5	Total U/Tc-99
B	A7-B58-3-R	1-1.5	Total U/Tc-99
B	A7-B59-1-R	0-.5	Tc-99

Area	Sample Identifier	Discrete Sample Interval (feet)	Target Analytes
B	A7-B59-3-R	1-1.5	Total U/Tc-99
B	A7-B60-1-R	0-.5	Total U/Tc-99
B	A7-B60-3-R	1-1.5	Total U/Tc-99
B	A7-B60-6-R	2.5-3	Total U/Tc-99
B	A7-B61-1-R	0-.5	Total U/Tc-99
B	A7-B62-1-R	0-.5	Tc-99
B	A7-B62-4-R	1.5-2	Total U/Tc-99
B	A7-B63-1-R	0-.5	Total U/Tc-99
B	A7-B63-4-R	1.5-2	Total U/Tc-99
B	A7-B63-7-R	3-3.5	Total U/Tc-99
B	A7-B64-1-R	0-.5	Total U/Tc-99
B	A7-B64-3-R	1-1.5	Total U/Tc-99
B	A7-B64-6-R	2.5-3	Total U/Tc-99
B	A7-B65-1-R	0-.5	Total U/Tc-99
B	A7-B65-4-R	1.5-2	Total U/Tc-99
B	A7-B66-1-R	0-.5	Tc-99
B	A7-B66-3-R	1-1.5	Total U/Tc-99
B	A7-B67-1-R	0-.5	Tc-99
B	A7-B67-4-R	1.5-2	Total U/Tc-99
B	A7-B68-1-R	0-.5	Tc-99
B	A7-B69-1-R	0-.5	Tc-99
B	A7-B70-1-R	0-.5	Tc-99
B	A7-B70-3-R	1-1.5	Total U/Tc-99
B	A7-B70-6-R	2.5-3	Total U/Tc-99
B	A7-B71-1-R	0-.5	Tc-99
B	A7-B72-1-R	0-.5	Tc-99
B	A7-B72-2-M	0-.5	Lead / Chromium
B	A7-B72-2-R	0.5-1.0	Total U/Tc-99
B	A7-B72-1-M	0.5-1.0	Lead / Chromium
C	A7-C1-1-R	0-.5	Tc-99
C	A7-C1-1-M	0-.5	Lead / Chromium
C	A7-C2-1-R	0-.5	Tc-99
C	A7-C2-1-M	0-.5	Lead / Chromium
C	A7-C3-1-R	0-.5	Tc-99
C	A7-C3-1-M	0-.5	Lead / Chromium
C	A7-C4-1-R	0-.5	Tc-99
C	A7-C4-1-M	0-.5	Lead / Chromium
C	A7-C5-1-R	0-.5	Tc-99
C	A7-C5-1-M	0-.5	Lead / Chromium
C	A7-C6-1-R	0-.5	Total U/Tc-99
C	A7-C6-1-M	0-.5	Lead / Chromium
C	A7-C7-1-R	0-.5	Tc-99
C	A7-C7-1-M	0-.5	Lead / Chromium
C	A7-C8-1-R	0-.5	Tc-99
C	A7-C8-1-M	0-.5	Lead / Chromium
C	A7-C9-1-R	0-.5	Total U/Tc-99
C	A7-C9-1-M	0-.5	Lead / Chromium
C	A7-C10-1-R	0-.5	Tc-99
C	A7-C10-1-M	0-.5	Lead / Chromium
C	A7-C11-1-R	0-.5	Tc-99
C	A7-C11-1-M	0-.5	Lead / Chromium
C	A7-C12-1-R	0-.5	Total U/Tc-99
C	A7-C12-1-M	0-.5	Lead / Chromium
D	A7-D1-1-R	0-.5	Tc-99
D	A7-D1-3-R	1-1.5	Total U/Tc-99

Area	Sample Identifier	Discrete Sample Interval (feet)	Target Analytes
D	A7-D1-6-R	2.5-3	Total U/Tc-99
D	A7-D1-10-R	4.5-5	Total U/Tc-99
D	A7-D2-1-R	0-.5	Tc-99
D	A7-D2-3-R	1-1.5	Total U/Tc-99
D	A7-D2-6-R	2.5-3	Total U/Tc-99
D	A7-D2-10-R	4.5-5	Total U/Tc-99
D	A7-D3-1-R	0-.5	Total U/Tc-99
D	A7-D3-3-R	1-1.5	Total U/Tc-99
D	A7-D3-6-R	2.5-3	Total U/Tc-99
D	A7-D3-10-R	4.5-5	Total U/Tc-99
D	A7-D4-1-R	0-.5	Tc-99
D	A7-D4-3-R	1-1.5	Total U/Tc-99
D	A7-D4-6-R	2.5-3	Total U/Tc-99
D	A7-D4-10-R	4.5-5	Total U/Tc-99
D	A7-D5-1-R	0-.5	Total U/Tc-99
D	A7-D5-3-R	1-1.5	Total U/Tc-99
D	A7-D5-6-R	2.5-3	Total U/Tc-99
D	A7-D5-10-R	4.5-5	Total U/Tc-99
D	A7-D6-1-R	0-.5	Total U/Tc-99
D	A7-D6-3-R	1-1.5	Total U/Tc-99
D	A7-D6-6-R	2.5-3	Total U/Tc-99
D	A7-D6-10-R	4.5-5	Total U/Tc-99
D	A7-D7-1-R	0-.5	Total U/Tc-99
D	A7-D7-3-R	1-1.5	Total U/Tc-99
D	A7-D7-6-R	2.5-3	Total U/Tc-99
D	A7-D7-10-R	4.5-5	Total U/Tc-99
D	A7-D8-1-R	0-.5	Total U/Tc-99
D	A7-D9-1-R	0-.5	Tc-99
D	A7-D10-1-R	0-.5	Total U/Tc-99
D	A7-D10-2B-R	0.5-1.0	Total U/Tc-99
D	A7-D10-3B-R	1.0-1.5	Total U/Tc-99
D	A7-D11-1-R	0-.5	Total U/Tc-99
D	A7-D12-1-R	0-.5	Tc-99
D	A7-D13-1-R	0-.5	Tc-99
D	A7-D14-1-R	0-.5	Tc-99
D	A7-D15-1-R	0-.5	Tc-99
D	A7-D16-1-R	0-.5	Tc-99
D	A7-D17-1-R	0-.5	Tc-99
D	A7-D18-1-R	0-.5	Tc-99
D	A7-D18-3-R	1-1.5	Total U/Tc-99
D	A7-D18-6-R	2.5-3	Total U/Tc-99
D	A7-D18-10-R	4.5-5	Total U/Tc-99
D	A7-D19-1-R	0-.5	Total U/Tc-99
D	A7-D19-3-R	1-1.5	Total U/Tc-99
D	A7-D19-6-R	2.5-3	Total U/Tc-99
D	A7-D19-10-R	4.5-5	Total U/Tc-99
D	A7-D20-1-R	0-.5	Tc-99
D	A7-D20-3-R	1-1.5	Total U/Tc-99
D	A7-D20-6-R	2.5-3	Total U/Tc-99
D	A7-D20-10-R	4.5-5	Total U/Tc-99
D	A7-D21-1-R	0-.5	Tc-99
D	A7-D21-3-R	1-1.5	Total U/Tc-99
D	A7-D21-6-R	2.5-3	Total U/Tc-99
D	A7-D21-10-R	4.5-5	Total U/Tc-99
D	A7-D22-1-R	0-.5	Total U/Tc-99

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Area	Sample Identifier	Discrete Sample Interval (feet)	Target Analytes
D	A7-D22-3-R	1-1.5	Total U/Tc-99
D	A7-D22-6-R	2.5-3	Total U/Tc-99
D	A7-D22-10-R	4.5-5	Total U/Tc-99
D	A7-D23-1-R	0-.5	Total U/Tc-99
D	A7-D23-3-R	1-1.5	Total U/Tc-99
D	A7-D23-6-R	2.5-3	Total U/Tc-99
D	A7-D23-10-R	4.5-5	Total U/Tc-99
D	A7-D24-1-R	0-.5	Total U/Tc-99
D	A7-D24-3-R	1-1.5	Total U/Tc-99
D	A7-D24-6-R	2.5-3	Total U/Tc-99
D	A7-D24-10-R	4.5-5	Total U/Tc-99
D	A7-D25-1-R	0-.5	Total U/Tc-99
D	A7-D25-3-R	1-1.5	Total U/Tc-99
D	A7-D25-6-R	2.5-3	Total U/Tc-99
D	A7-D25-10-R	4.5-5	Total U/Tc-99
D	A7-D26-1-R	0-.5	Total U/Tc-99
D	A7-D26-3-R	1-1.5	Total U/Tc-99
D	A7-D26-6-R	2.5-3	Total U/Tc-99
D	A7-D26-10-R	4.5-5	Total U/Tc-99
D	A7-D27-1-R	0-.5	Total U/Tc-99
D	A7-D27-3-R	1-1.5	Total U/Tc-99
D	A7-D27-6-R	2.5-3	Total U/Tc-99
D	A7-D27-10-R	4.5-5	Total U/Tc-99
E	A7-E1-1-R	0-.5	Total U/Tc-99
E	A7-E2-1-R	0-.5	Total U/Tc-99
E	A7-E3-1-R	0-.5	Total U/Tc-99
E	A7-E4-1-R	0-.5	Total U/Tc-99
E	A7-E5-2-R	0.5-1.0	Total U/Tc-99
E	A7-E5-2-M	0.5-1.0	Lead / Chromium
E	A7-E6-9-R	4.0-4.5	Total U/Tc-99
E	A7-E6-9-M	4.0-4.5	Lead / Chromium
E	A7-E7-7-R	3.0-3.5	Total U/Tc-99
E	A7-E7-7-M	3.0-3.5	Lead / Chromium
E	A7-E8-1-R	0-.5	Tc-99
E	A7-E9-1-R	0-.5	Total U/Tc-99
E	A7-E9-1-M	0-.5	Lead/Chromium
E	A7-E9-3-R	1.0-1.5	Total U/Tc-99
E	A7-E9-3-M	1.0-1.5	Lead/Chromium
E	A7-E9-5-R	2.0-2.5	Total U/Tc-99
E	A7-E9-5-M	2.0-2.5	Lead/Chromium
E	A7-E10-2-R	0.5-1.0	Total U/Tc-99
E	A7-E10-2-M	0.5-1.0	Lead / Chromium
E	A7-E11-1-R	0-.5	Total U/Tc-99
E	A7-E11-1-M	0-.5	Lead / Chromium
E	A7-E11-3-R	1.0-1.5	Total U/Tc-99
E	A7-E11-3-M	1.0-1.5	Lead/Chromium
E	A7-E12-R	0-0.5	Total U/Tc-99
E	A7-E13-R	0-0.5	Total U/Tc-99
E	A7-E14-R	0-0.5	Total U/Tc-99
E	A7-E15-R	0-0.5	Total U/Tc-99
E	A7-E16-R	0-0.5	Total U/Tc-99
E	A7-E17-R	0-0.5	Total U/Tc-99
E	A7-E18-R	0-0.5	Total U/Tc-99
E	A7-E19-R	0-0.5	Total U/Tc-99
E	A7-E20-R	0-0.5	Total U/Tc-99

Area	Sample Identifier	Discrete Sample Interval (feet)	Target Analytes
E	A7-E21-R	0-0.5	Total U/Tc-99
F	A7-F1-1-R	0-0.5	Tc-99
F	A7-F1-3-R	1-1.5	Total U/Tc-99
F	A7-F1-6-R	2.5-3	Total U/Tc-99
F	A7-F1-10-R	4.5-5	Total U/Tc-99
F	A7-F2-1-R	0-.5	Tc-99
F	A7-F2-3-R	1-1.5	Total U/Tc-99
F	A7-F2-6-R	2.5-3	Total U/Tc-99
F	A7-F2-10-R	4.5-5	Total U/Tc-99
F	A7-F3-1-R	0-.5	Tc-99
F	A7-F3-3-R	1-1.5	Total U/Tc-99
F	A7-F3-6-R	2.5-3	Total U/Tc-99
F	A7-F3-10-R	4.5-5	Total U/Tc-99
F	A7-F4-1-R	0-.5	Tc-99
F	A7-F4-3-R	1-1.5	Total U/Tc-99
F	A7-F4-6-R	2.5-3	Total U/Tc-99
F	A7-F4-10-R	4.5-5	Total U/Tc-99
F	A7-F5-1-R	0-.5	Tc-99
F	A7-F6-1-R	0-.5	Tc-99
F	A7-F7-1-R	0-.5	Tc-99
F	A7-F8-1-R	0-.5	Tc-99
F	A7-F9-1-R	0-.5	Tc-99
F	A7-F10-1-R	0-.5	Tc-99
F	A7-F11-1-R	0-.5	Tc-99
F	A7-F12-1-R	0-.5	Tc-99
F	A7-F13-1-R	0-.5	Tc-99
F	A7-F14-1-R	0-.5	Tc-99
F	A7-F15-1-R	0-.5	Tc-99
F	A7-F16-1-R	0-.5	Tc-99
F	A7-F17-1-R	0-.5	Tc-99
F	A7-F18-1-R	0-.5	Tc-99
F	A7-F19-1-R	0-.5	Tc-99
F	A7-F20-1-R	0-.5	Tc-99

VARIANCE / FIELD CHANGE NOTICE	V/F 20500PSP01-6
WBS NO.: 20500PSP01	Page 1 of 1
PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils	Date: 12/3/98

VARIANCE / FIELD CHANGE NOTICE (Include justification): 20500-PSP-0001 Rev.0

3149

This variance documents the addition of a sample location in Area B (planned infrastructure road). This is necessary due to the misalignment of sample locations with the footprint of the planned road.

The additional point is referred to as A7-B63A. The 0-0.5 foot depth interval and 1.5-2 feet depth interval was originally specified in the PSP. However, several borehole attempts over a large area proved that the area was impenetrable with the available sampling equipment which resulted in no sample collection at the last interval. Large rock and gravel was encountered on all borehole attempts. The designed intervals are based on the road design drawings which indicate the approximate cut depth in the road ditch at the nearest cross-section (station) number. The 0-0.5 foot sample was collected from the bottom of an existing ditch that approximately corresponds to the planned ditch cut depth. This location is approximately 40 feet west of the original B63 location.

The sample ID used for the sample was A7-B63A-1-R as specified in the PSP.

The coordinates for this new point are: N480672.4, E 1347645.8, Elevation 575.2.

Justification:

The misalignment of the original sample points due to incorrect centerline coordinates for the road at one cross-section point resulted in a sample point being approximately 20 feet to the north of the planned roadway boundary. This additional location will complete the characterization as planned in the original PSP at the station number in the engineering design. The sample was collected from a low-lying ditch point that is a collection point for stormwater runoff. Therefore, it is probable that the selected location conservatively represents the higher contaminant concentrations for the immediate area.

ORIGINAL

REQUESTED BY: Mike Frank Date: 12/3/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE	12-3-98	X	CHARACTERIZATION LEAD	12/10/98
	DATA QUALITY MANAGEMENT		X	FIELD MANAGER	12/10/98
	ANALYTICAL CUSTOMER SUPPORT			OTHER	
	OTHER			OTHER	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeanie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

000089

VARIANCE / FIELD CHANGE NOTICE	V/F 20500PSP01-7
WBS NO.: 20500PSP01	Page 1 of 7
PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils	Date: 12/16/98

VARIANCE / FIELD CHANGE NOTICE (Include justification): 20500-PSP-0001 Rev.0 3149

This variance provides direction on additional sampling to be performed in the vicinity of the Pilot Plant Drainage Ditch in support of planned excavation for the Silos Project infrastructure road. The initial engineering design did not provide for re-routing of the drainage ditch as a result of a planned rock berm to be installed during road construction which would potentially disrupt storm water flow within the ditch. The design drawings were revised to include re-routing of approximately 50 to 75-foot section of channel. The revised drawings are attached along with cross-sectional drawings indicating the approximate depth of excavation and location of the sample points.

The sampling design includes ten sampling points spaced over the planned excavation area which encompasses a 50 to 75-foot section of the ditch and the soil bank to the south of the ditch. The entire area planned for excavation is approximately 75 feet by 25 feet.

Analytes	*TAL*	*Container/Mass*	*Preservative*
Total U / Tc-99	TAL A	250 mL/300 g	None

Sample IDs	*Total Depth*
A7-B73-*x*-R	555' Elevation
A7-B74-*x*-R	555' Elevation
A7-B75-*x*-R	555' Elevation
A7-B76-*x*-R	555' Elevation
A7-B77-*x*-R	555' Elevation
A7-B78-*x*-R	555' Elevation
A7-B79-*x*-R	555' Elevation
A7-B80-*x*-R	555' Elevation
A7-B81-*x*-R	555' Elevation
A7-B82-*x*-R	555' Elevation

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COPY NO.
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Note: The "*x*" will be replaced with the appropriate depth code as specified in the PSP (1 for 0-0.5 feet, 2 for 0.5-1.0 feet, etc.). The total boring depth will be determined based on the marked surface elevation at each sample location (surface elevation - 555 feet elevation = total depth).

All samples will be collected from the interval having the highest radiological field reading (beta-gamma frisker); if all soil intervals are background, then the 0.0-0.5 foot interval will be collected.

The total depth of each boring will extend to 555 feet in elevation. The total depths in feet will be recorded in the Field Activity Log during the sampling event. If an obstruction is encountered, the location should be relocated within the limits of the penetration permit. A minimum of three boring attempts should be made at each location if obstructions are encountered.

The sampling equipment to be utilized shall include a manually driven Macro-core or hand auger. A heavy steel bar with a blunt end may also be used to penetrate through obstructions such as rocks or roots.

For sample locations in the stream bed (B75 and B79), collection of soil is preferable down to the 555 feet elevation. The points may be moved along the stream channel up to ten feet in either direction if necessary to collect soil. However, it may be necessary to collect sediment as the 0.0-0.5 foot interval. If this is the case, attempt to collect only silt and fine-grained materials and avoid gravel to the extent possible.

Justification:

Characterization of the described area of soils is necessary due to excavation planned to install rock to support the planned infrastructure road. This rock will extend into the existing Pilot Plant Drainage Ditch which necessitates the need to re-route the ditch from approximately the 6+75 station to the 7+25 station as illustrated on the attached design drawings.

REQUESTED BY: Mike Frank Date: 12/16/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE	12-16-98	X	CHARACTERIZATION LEAD	12-16-98
	DATA QUALITY MANAGEMENT		X	FIELD MANAGER	12-16-98
	ANALYTICAL CUSTOMER SUPPORT		X	Sites Project Infrastructure Mgr.	12-16-98
	OTHER		X	AREA 7 PROJECT MGR.	12-16-98

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeanie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

Variance #7

Page 2 of 7

HORIZONTAL: 1" = 10'

VERTICAL: 1" = 10'

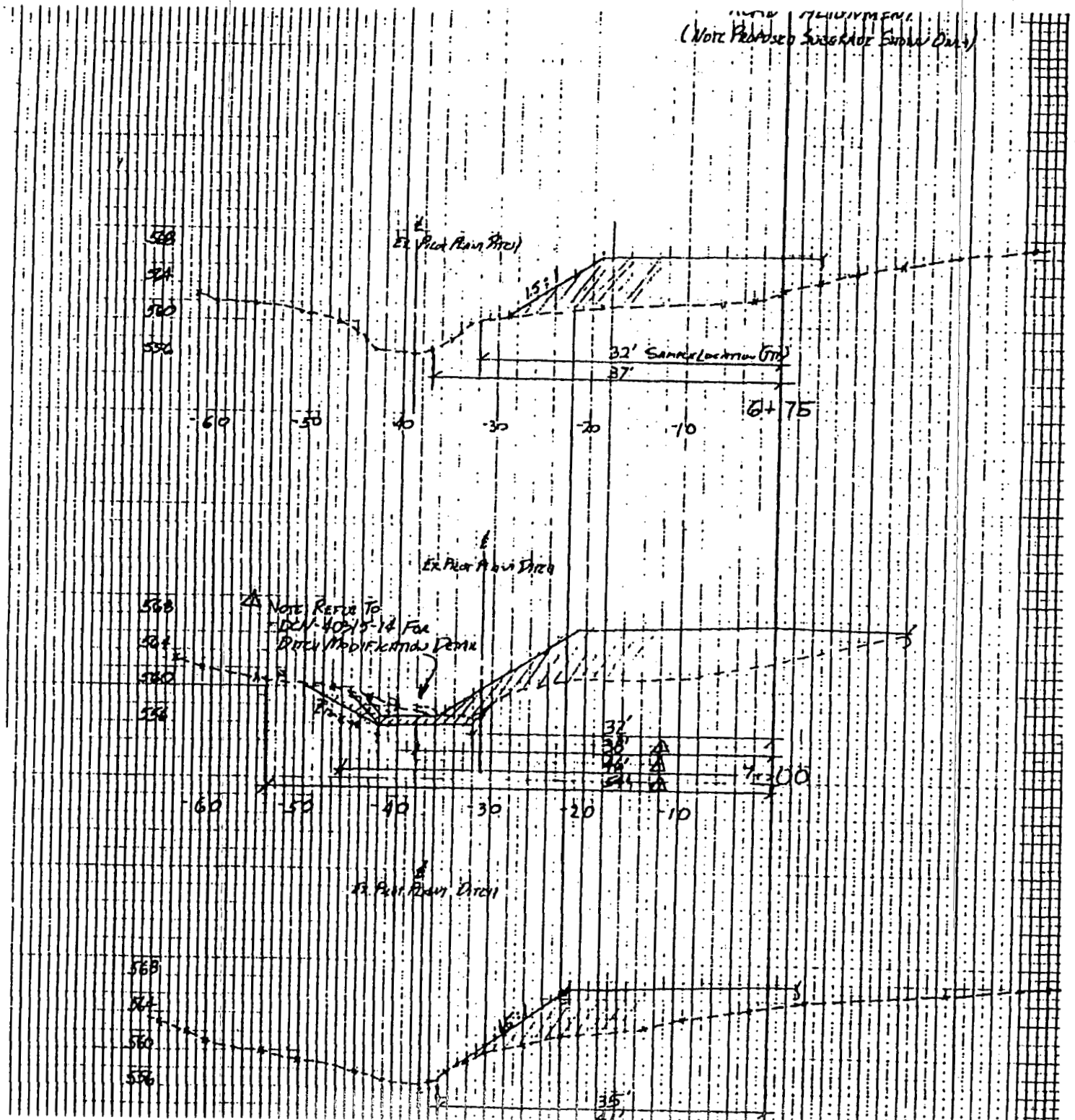
T. CRAWFORD 12-14-98
920 SDA2
-5849

REVISION A - 12-16-98 B
CORRECTED STATION 6+12.5 TO 7+12.5
REVISED STATION CROSSECTION 76 LINE
OUA DCN-40315-A-R0/0/0
RECEIVED 12-16-98
MOVED STATION 7+00 SAMPLE PTS
FROM -42' TO -38'
FROM -50' TO -46'
ADDED -54'
ALL POL EPA DISCUSSIONS 12-16-98
• PLACE SAMPLE PT. @ PILOT PLANT & FOR
STA 6+87.5 & 7+12.5 OR RELOCATE
ON FIRM SOIL W/IN ¢
• ADDED SAMPLE NO. TO TABLE

SUMMARY

SAMPLE LOCATIONS

STATION	DISTANCE FROM R0 ¢	DESCRIPTION	△ SAMPLE NO.
6+75	32' LEFT OR -32'	—	A7-B73
	-37'	—	A7-B74
△ 6+87.5	-35' ±	PLACE PILOT PLANT ¢	A7-B75
7+00	-32'	—	A7-B76
	-38' △	—	A7-B77
	-46' △	—	A7-B78
	-54' △	—	A7-B82
△ 7+12.5	-30' ±	PLACE PLANT ¢	A7-B79
7+25	-35'	—	A7-B80
	-41'	—	A7-B81



Variance #7
Page 4 of 7

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3149

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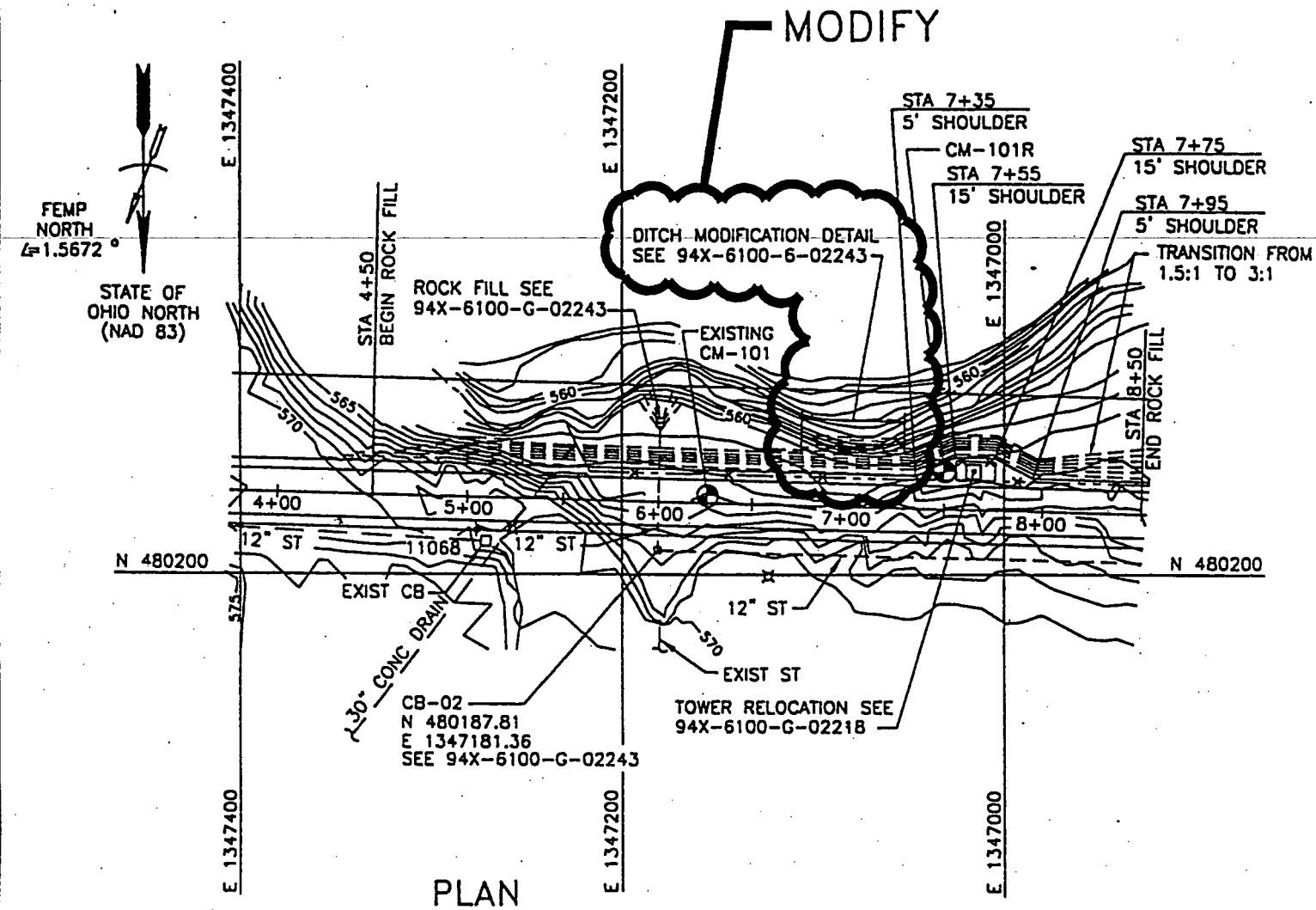


PLAN

STA 0+00 – 12+00

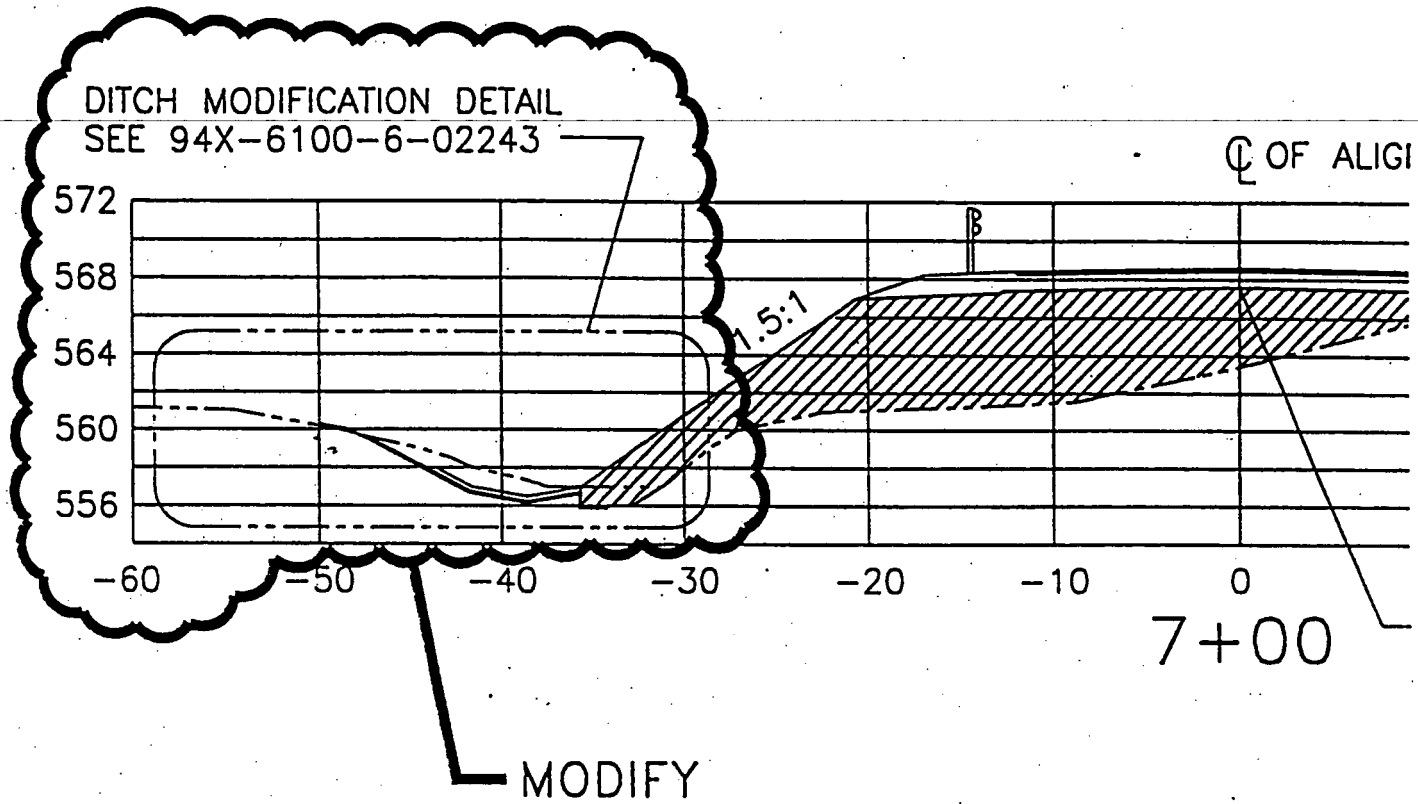
SCALE: 1"=50'

50 0 50 100

SCALE IN FEET

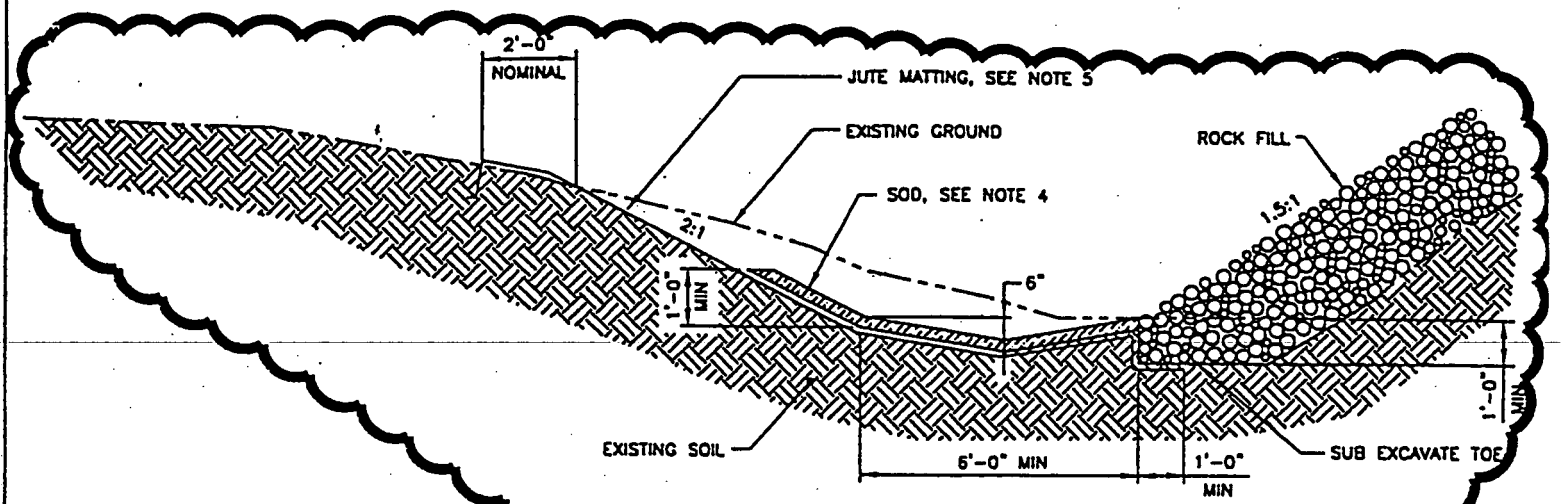
PSP
Variance #7
Page 5 of 7

FLUOR DANIEL NORTHWEST, INC.		DESIGN CHANGE NOTICE	
DESCRIPTION CHANGE: MODIFY PLAN VIEW TO REFERENCE DITCH MODIFICATION		BASE DOC. NO. 94X-6100-G-02210 SHT/PG. 1 REV. 0	
PREPARED BY: RS CHRISTENSEN	DATE: 12/9/98	CADCODE: WIN95:ACD2:14.0:SS 000094	
DISCIPLINE ENGINEER: D MESSINGER	DATE: 12/9/98	DCN-40315-014	PAGE 7 / REV 0
DISCIPLINE: CIVIL			



PSP Variance #7
Page 6 of 7

FLUOR DANIEL NORTHWEST, INC.		DESIGN CHANGE NOTICE
DESCRIPTION CHANGE: MODIFY CROSS SECTION AT STATION 7+00 TO SHOW MODIFICATION IN CHANNEL		BASE DOC. NO. 94X-6100-G-02213 SHT/PG. 1 REV. 0
PREPARED BY: RS CHRISTENSEN	DATE: 12/9/98	CADCODE: WIN95:ACD2:14.0:SS 000095
DISCIPLINE ENGINEER: D MESSINGER	DATE: 12/9/98	DCN-40315-014 PAGE REV



DITCH MODIFICATION DETAIL

SCALE: 1/2"=1'-0"

FROM STA 6+75 TO SA 7+28, SEE NOTE 3

ADD

3. MODIFY EXISTING DRAINAGE DITCH WHERE ROCK SLOPE ENCROCHES FROM APPROXIMATELY STA 6+75 TO STA 7+28. THE FINAL CHANNEL GRADE SHALL MATCH THE EXISTING CHANNEL GRADE.

NEW SPEC.

4. SOD SPECIFICATION NOTE (ENTER SECTION NO.)

5. SEE SPECIFICATION SECTION 02270, EROSION CONTROL BLANKETS.

PSP Variance

Page 7 of

FLUOR DANIEL NORTHWEST, INC.	DESIGN CHANGE NOTICE
DESCRIPTION CHANGE: ADD DITCH MODIFICATION DETAIL. ADD NOTES 3,4, & 5.	BASE DOC. NO. 94X-6100-G-02243 SHT/PG. 1 REV. 0
PREPARED BY: RS CHRISTENSEN DATE: 12/9/98	CADCODE: WIN95:ACD2:14.0:SS 000096
DISCIPLINE ENGINEER: D MESSINGER DATE: 12/9/98	DCN-40315-014 PAGE 5 REV 00
DISCIPLINE: CIVIL CADFILE: DCN14.DWG	

VARIANCE / FIELD CHANGE NOTICE

V 20500-001-9

WBS NO.: PROJECT/DOCUMENT ECDC #20500-PSP-0001 Rev0.

PROJECT TITLE: PSP for WAC Attainment Sampling of Area 7 Soils

Date: 6/23/99

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Field Change Notice:

3149

This variance outlines areas that need to be physically sampled/and or measured by real-time instruments for Area 7 Phase II WAC attainment, in the newly identified Area G (Phase 1 activities covered areas A-F). Sampling and real-time measurements will be used to support elements of the Accelerated Waste Retrieval Project not covered in the WAC Attainment Area 7 PSP (for Phase I).

Most of area G currently consists of soil vegetated areas and gravel roadways. Area G consist of several locations (as shown on Figure 1 on page 3 of this variance):

-East of Silo 2, 3 & 4 (future pipe support area from Silo 4 to proposed Transfer Tank area)

-South of Silo 1 (construction lay-down area)

ECDC CONTROLLED COPY NO. 8843

Section 1.1 of the PSP stated "a Phase II field sampling program which will focus on the Silo 1 and 2 soil berms and several areas associated with the silo berms will be addressed under a separate PSP." Due to the limited scope of Phase II soil sampling and real-time monitoring a new PSP will not be generated; the work for Phase II is identified in this V/FCN to the existing Phase I PSP.

Physical Sampling

Physical soil sampling in Area G will be performed East of Silos 2, 3 & 4 and south of Silo 1. There are 12 sample locations identified as G1 - G12 on Figure 1 on page 3 of this variance.

- Points G1-G6 will be sampled at 0 - 0.5 feet and will be for WAC determination of the construction lay down area.
- Points G7 - G12 will be to a 5 foot depth with the sample intervals described below. These points will be for WAC determination of the future pipe support area.

The target analytes for all samples will be Total U/Tc-99. The soil sampling and analytical requirements will be the same as is in the PSP (Sampling and Analytical Requirements, Table 2-1). All sample containerization, radiological screening and validation described in the PSP will be followed for this scope of work.

ORIGINAL

Continued on following page....

REQUESTED BY: Darren Wessel/Tom Crawford DATE: 6/23/99

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE Frank Thompson	6/29/99	X	PROJECT MANAGER	6-28-99
	DATA QUALITY MANAGEMENT		X	REAL-TIME PROGRAM MANAGER	6/23/99
X	ANALYTICAL CUSTOMER SUPPORT Bill Westerman	6/24/99	X	CHARACTERIZATION LEAD	6/24/99
X	FIELD SAMPLING MANAGER Mike Frank	6-24-99	X	WAO	6/24/99

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeanie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
		000097

Continued from preceding page...

- 3149

The depth and coordinates for soil sampling consist of the following:

Sample Identifier	Discrete Sample Interval (feet)	Northing Coordinate	Easting Coordinate
A7-G1-1-R	0-.5	480203.0	1347134.02
A7-G2-1-R	0-.5	480236.79	1347078.09
A7-G3-1-R	0-.5	480197.37	1347039.05
A7-G4-1-R	0-.5	480235.39	1346989.11
A7-G5-1-R	0-.5	480193.85	1346938.81
A7-G6-1-R	0-.5	480238.91	1346889.02
A7-G7-1-R	0-.5	480524.85	1347174.08
A7-G7-3-R	1-1.5	480524.85	1347174.08
A7-G7-6-R	2.5-3	480524.85	1347174.08
A7-G7-10-R	4.5-5	480524.85	1347174.08
A7-G8-1-R	0-.5	480615.77	1347176.78
A7-G8-3-R	1-1.5	480615.77	1347176.78
A7-G8-6-R	2.5-3	480615.77	1347176.78
A7-G8-10-R	4.5-5	480615.77	1347176.78
A7-G9-1-R	0-.5	480692.76	1347159.4
A7-G9-3-R	1-1.5	480692.76	1347159.4
A7-G9-6-R	2.5-3	480692.76	1347159.4
A7-G9-10-R	4.5-5	480692.76	1347159.4
A7-G10-1-R	0-.5	480753.8	1347106.43
A7-G10-3-R	1-1.5	480753.8	1347106.43
A7-G10-6-R	2.5-3	480753.8	1347106.43
A7-G10-10-R	4.5-5	480753.8	1347106.43
A7-G11-1-R	0-.5	480852.06	1347107.6
A7-G11-3-R	1-1.5	480852.06	1347107.6
A7-G11-6-R	2.5-3	480852.06	1347107.6
A7-G11-10-R	4.5-5	480852.06	1347107.6
A7-G12-1-R	0-.5	480939.5	1347106.43
A7-G12-3-R	1-1.5	480939.5	1347106.43
A7-G12-6-R	2.5-3	480939.5	1347106.43
A7-G12-10-R	4.5-5	480939.5	1347106.43

Real-Time Monitoring

Real-time monitoring will only be performed in the portion of Area G immediately south of the Silo 1. Real-time monitoring will NOT be performed in neither the portion of Area G east if Silo 2 (because the area is predominately gravel), nor east of Silos 3 and 4 (since the measurements were already collected in this location under Phase I).

Monitoring will consist of as close to 100% HPGe coverage. Due to high background gamma emissions from Silos 1 and 2, the NaI detectors will not be used. Real-time measurements will follow sections 3.2 - 3.6 of the PSP.

The real-time measurement numbering system will be modified to identify work being performed in Area G., and will follow the numbering system:

A7-G1-G-D where:
A7 = Area 7
G = Area G
1 = first gamma measurement
G = Gamma
D = duplicate (1 in 20 measurements)

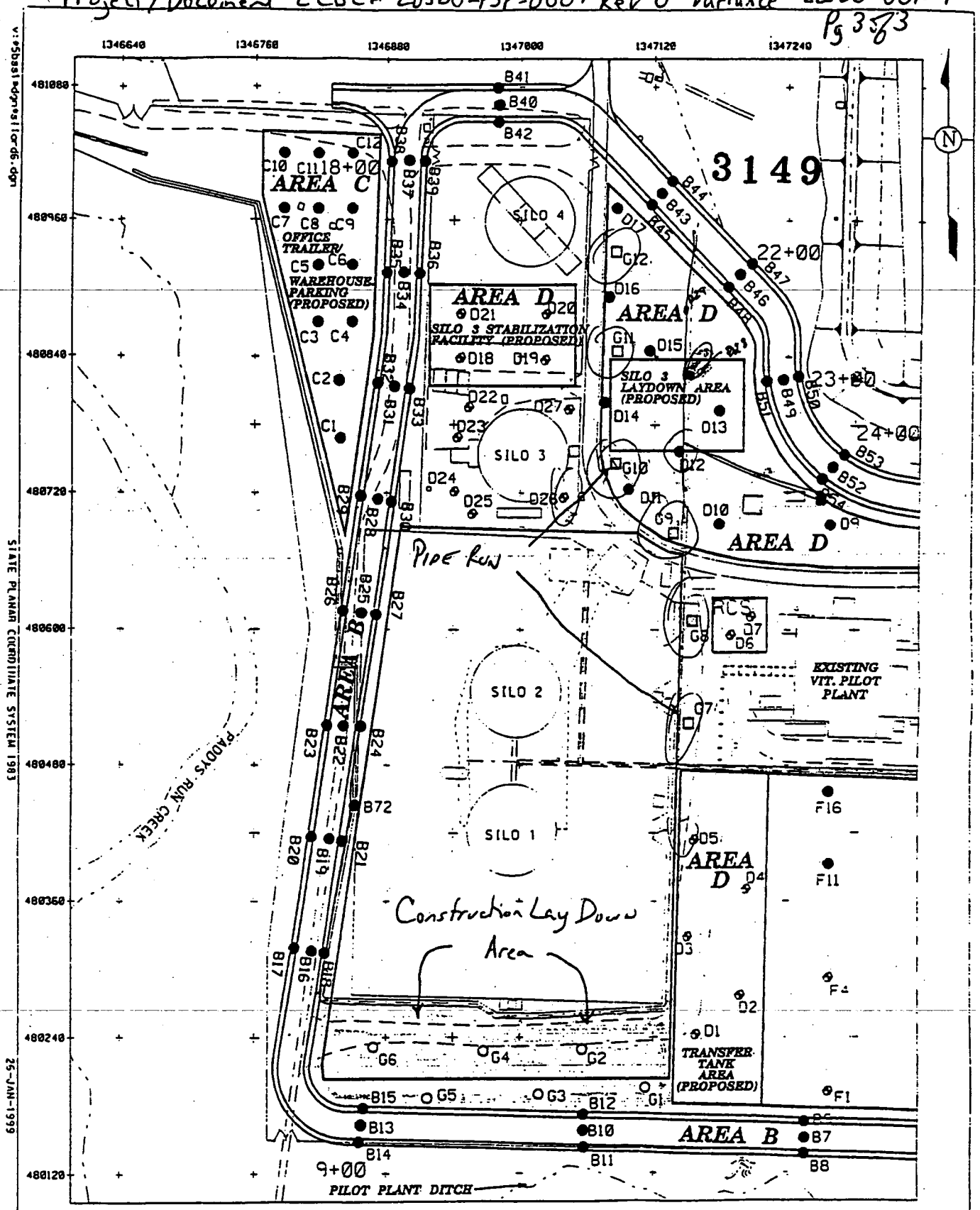
Justification:

This Phase II sampling under the Area 7 WAC Attainment PSP is necessary to determine the WAC status of soils in the additional area planned for construction by the Silos Project. Sample locations G7-G12 are intended to provide WAC data for the general corridor for the planned series of pipe support foundations for the Accelerated Waste Retrieval Project.

000098

Project/Document ECDC# 20500-PSP-0001 Rev 0 Variance # 20500-001-9

Pg 3 of 3



LEGEND:

- ● PHASE I BORING LOCATION (<5 FEET)
- ⊕ PHASE I BORING LOCATION (5 FEET)
- □ PHASE II BORING LOCATION (5 FEET)
- ○ PHASE II BORING LOCATION (0 - 6 INCHES)

SCALE

120 60 0 120 FEET

FIGURE 1. SILOS PROJECT AREA, SOIL WAC ATTAINMENT SAMPLING LOCATIONS. (COMPLETED PHASE I AND PROPOSED PHASE II LOCATIONS)

VARIANCE / FIELD CHANGE NOTICE

V/FCN20500PSP1-12
Page 1 of 2

WBS NO.: PROJECT/DOCUMENT #20500-PSP-0001, Rev 0

PROJECT TITLE: PSP for Area 7 WAC Attainment Sampling of Area 7 Soils

Date: 2/9/00

VARIANCE / FIELD CHANGE NOTICE (Include justification):

3149

This Variance Field Change Notice (V/FCN) adds two additional sample locations in Area D. Collect soil borings at two new locations (A7-D28 and A7-D29) within Area D at the following coordinates to a depth of five feet. Listed below are the locations for the soil borings:

Location ID	Northing	Easting
A7-D28	480824.2	1347167.6
A7-D29	480881.0	1347173.3

Soil samples will be collected at the 0-0.5, 1-1.5, 2.5-3, and 4.5-5 depth intervals at each location. The borings will be scanned with a beta-gamma frisker per Section 2.2.3 of the PSP. The soil sampling and analytical requirements will be the same as those identified in Table 2-1 and sample identification will follow Section 2.3. The samples will be analyzed for total uranium and technetium-99 at ASL B per the PSP.

ECDC CONTROLLED
COPY NO 8842

Justification

Existing RI/FS and 0-0.5 feet WAC attainment data is insufficient to characterize at depth since the depth of the original drainage excavation area has been revised. Thus, additional Area D samples are needed to demonstrate WAC attainment for excavation and installation of catch basins and drainage lines. This area will be a concrete storage area. The catch basins and drainage lines will collect surface water and drain through a larger culvert (replacing the existing culvert) to the existing storm water retention pond just north of the Silos Infrastructure Road.

REQUESTED BY: Mike Rolfes DATE: 2/9/00

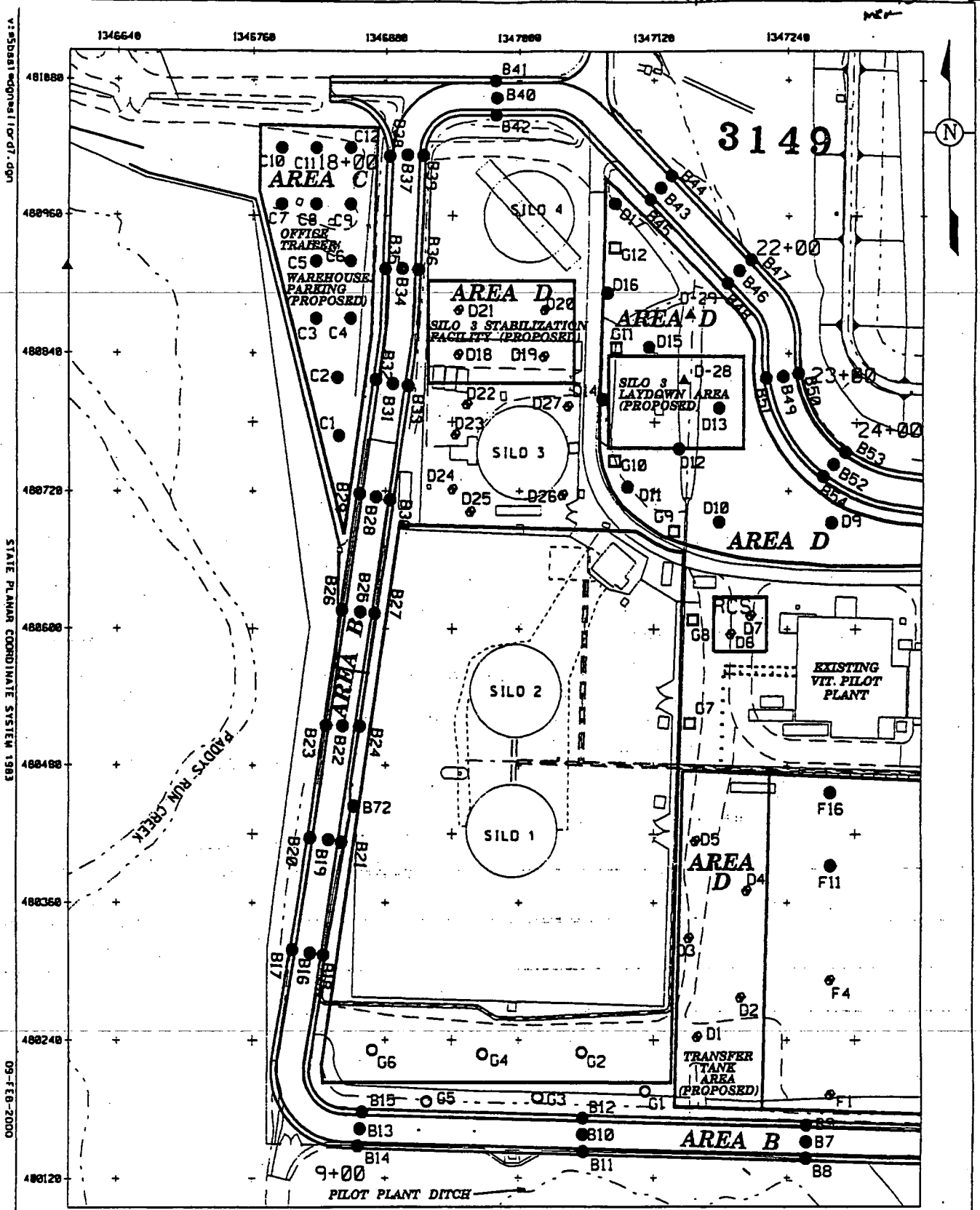
X IF REQD	VARIANCE/FAN APPROVAL	DATE	X IF REQD	VARIANCE/FAN APPROVAL	DATE
X	QUALITY ASSURANCE	02/10/00	X	PROJECT MANAGER	2/9/00
				Real-time Lead	
X	[illegible]	02/10/00	X	Characterization Contact	2/9/00
X	Project Sampling Manager	2-7-00	X	WAC	2/9/00

VARIANCE/FCN APPROVED [x]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:



LEGEND:

- ● PHASE I BORING LOCATION (<5 FEET)
- ⊕ PHASE I BORING LOCATION (5 FEET)
- ▲ ADDITIONAL AREA D BORING LOCATIONS (5 FT.)
- □ PHASE II BORING LOCATION (5 FEET)

SCALE: 120 60 0 120 FEET

FIGURE 1. SILOS PROJECT AREA. SOIL WAC ATTAINMENT SAMPLING LOCATIONS. (COMPLETED PHASE I AND PROPOSED PHASE II LOCATIONS)

WBS NO.: PROJECT/DOCUMENT #20500-PSP-0001, Rev 0

PROJECT TITLE: PSP for Area 7 WAC Attainment Sampling of Area 7 Soils

Date: 3/15/00

VARIANCE / FIELD CHANGE NOTICE (Include justification):

3149

A small soil/sand/gravel pile (approximately 700 yd3 and identified as WPR-008) is located just north of Area E (K65 Laydown Area) and is comprised of clean construction material (sand and gravel) purchased from an offsite vendor. This material was mixed with soil from construction of the IT-operated Gas Cleaning System/Water Treatment System (GCS/WTS) building located in Area 6. The soil and construction material were consolidated into a pile at the current location north of K65 Laydown area and south of the Second Street (Figure 1).

Analytical data from previous RI/FS sampling of the soil around and under the footprint of GCS/WTS building are all below OSDF WAC except for one total uranium sample (1753 ppm). Based on this information, total uranium will be retained as a COC for sampling. Technetium-99 was detected at below-WAC concentrations and will also be retained as a COC. All other available analytical data for OSDF WAC COCs were non-detects.

In addition, this soil is not located near any of the six geographical areas of the FEMP identified in the OU5 ROD as having reasonable potential for the presence of soil that qualifies as a Resource Conservation and Recovery Act characteristic area. Based on this process knowledge, TCLP metals analysis will not be considered for analysis.

This Variance Field Change Notice (V/FCN) adds sampling at three boring locations in this stockpile north of Area E. Due to the short length and narrow width of the pile, the boring locations are evenly spaced. The six-inch depth intervals listed below are randomly generated. The depth of each boring number is the approximate depth of the pile at that location plus one additional foot. Listed below is the location and depth for the soil boring:

Boring ID	Northing	Easting	Depth(ft)	Sample Depth Interval (ft)
A7-WPR8-1	480724	1347981	12	4-4.5
A7-WPR8-2	480715	1347927	11	9-9.5
A7-WPR8-3	480712	1347891	9	3-3.5

The entire boring will be scanned with a beta-gamma frisker per Section 2.2.3 of the PSP. If any interval exceeds background of the beta-gamma frisker, this interval will supersede the predetermined sample depth interval. The soil sampling and analytical requirements will be the same as those identified in Table 2-1 and sample identification will follow Section 2.3. The samples will be analyzed for total uranium and technetium-99 at ASL B and validated per the PSP.

Justification

Due to lack of tracking of bulk material during site prep for the WRPRAP project, other Area 6 sources of soil may have been added to the pile. Available RI/FS data from the GCS/WTS building footprint and surrounding Area 6 soils are below WAC except for total uranium. The above-WAC data for total uranium, as well as the presence of technetium-99 around the footprint of the GCS/WTS building, warrants further sampling to demonstrate WAC attainment.

REQUESTED BY: Mike Rolfes DATE: 3/15/00

ECDC CONTROLLED 000102
COPY NO. 8843

VARIANCE / FIELD CHANGE NOTICE

V/FCN20500PSP1-14
Page 2 of 3

WBS NO.: PROJECT/DOCUMENT #20500-PSP-0001, Rev 0

PROJECT TITLE: PSP for Area 7 WAC Attainment Sampling of Area 7 Soils

Date: 3/15/00

3149

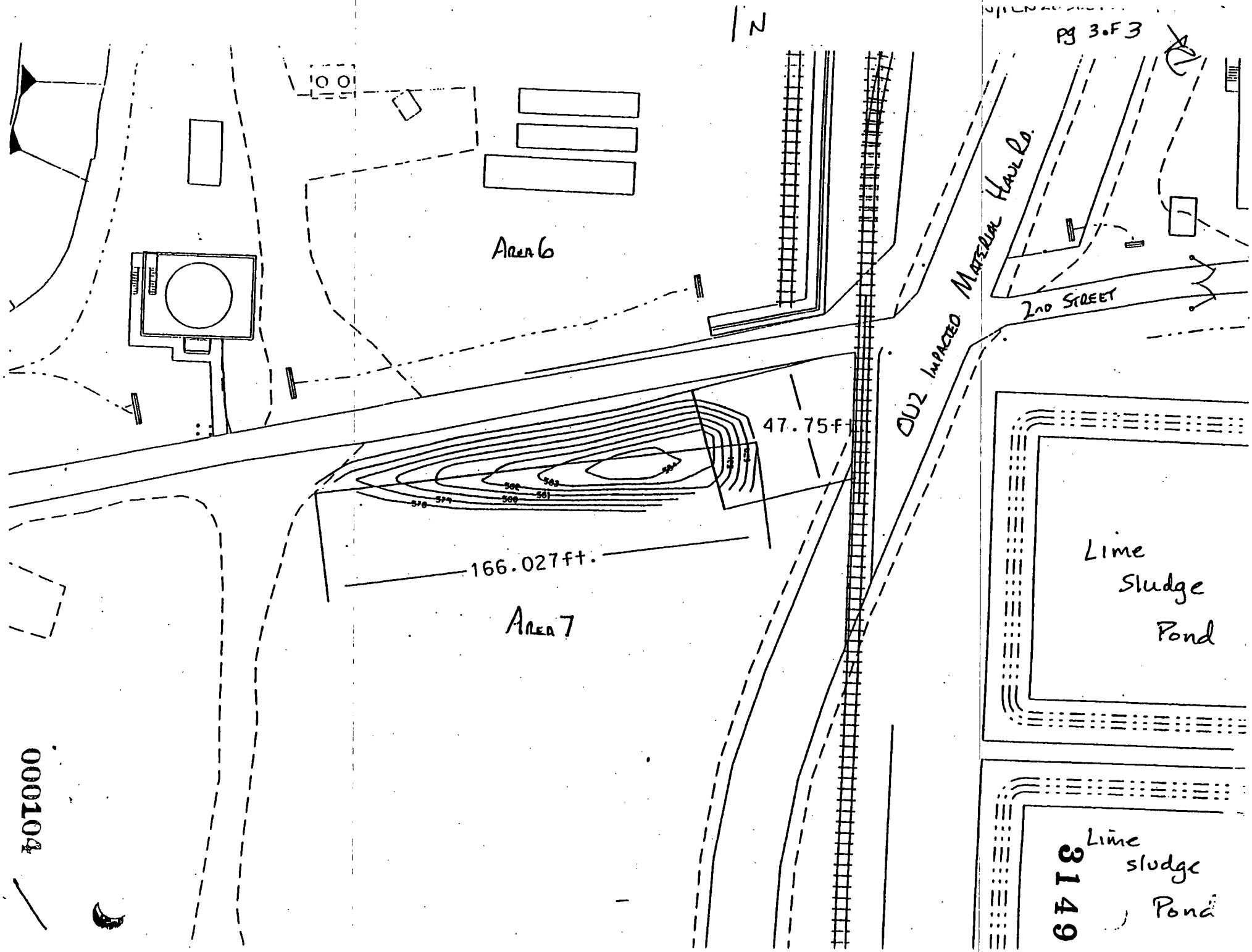
X IF REQD	VARIANCE/FAN APPROVAL	DATE	X IF REQD	VARIANCE/FAN APPROVAL	DATE
X	QUALITY ASSURANCE Frank Thompson	3-16-00	X	PROJECT MANAGER	3-16-00
				Real-time Lead	
X	ANALYTICAL CUSTOMER SUPPORT	03/15/00	X	Characterization Contact	3/15/00
X	Sampling Manager Tom Bulsky	3/15/00	X	WAO Linda Barlow	3/15/00

VARIANCE/FCN APPROVED [x]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:


N
Pg 3.F3
Area 6
OU2 Impacted Material Haul Rd.
2nd Street
47.75ft
166.027ft.
Area 7
Lime Sludge Pond
Lime sludge Pond
570
574
580
581
582
583

VARIANCE / FIELD CHANGE NOTICE

V/FCN20500PSP1-15
Page 1 of 12

WBS NO.: PROJECT/DOCUMENT #20500-PSP-0001, Rev 0

PROJECT TITLE: PSP for Area 7 WAC Attainment Sampling of Area 7 Soils

Date: 4/11/00

VARIANCE / FIELD CHANGE NOTICE (Include justification):

3149

This Variance Field Change Notice (V/FCN) supercedes variance 13. Variance 13 added four new sample locations in Area F to the depth of 15 feet. Listed below is the location and the new depth (6 feet) for the soil borings:

Location ID	Northing	Easting	Depth
A7-F21	480331.6	1347675.4	6'
A7-F22	480309.8	1347674.9	6'
A7-F23	480247.0	1347675.4	6'
A7-F24	480184.2	1347667.8	6'

Soil samples will be collected at the 1.5-2.0', 3.5-4.0', 5.5-6.0' depth intervals for the 6 foot borings. The borings will be scanned with a beta-gamma frisker per Section 2.2.3 of the PSP. The soil sampling and analytical requirements will be the same as those identified in Table 2-1 and sample identification will follow Section 2.3. The samples will be analyzed for total uranium and technetium-99 at ASL B per the PSP.

ECDC CONTROLLED COPY NO. 88

Justification

The Silos contractor will not be installing the three cistern tanks as previously designed. The underground piping (sanitary line) along the western perimeter of Area F will be installed. The existing RI/FS and 0-0.5 feet WAC attainment data is insufficient to characterize at-depth. Thus, additional Area F samples are needed to demonstrate WAC attainment for excavation and installation of the drainage lines to the depth of 6 feet.

REQUESTED BY: Mike Rolfes DATE: 2/29/00

X IF REQD	VARIANCE/FAN APPROVAL	DATE	X IF REQD	VARIANCE/FAN APPROVAL	DATE
X	QUALITY ASSURANCE Trent Thompson	4/11/00	X	PROJECT MANAGER	4-11-00
				Real-time Lead	
X	ANALYTICAL CUSTOMER SUPPORT	04/4/00	X	Characterization Contact Michael J Zosel	4/11/00
X	Sampling Manager Tom Bubolz	4/11/00	X	WAO Kenda Butler	4/11/00

VARIANCE/FCN APPROVED [x]YES [ ]NO

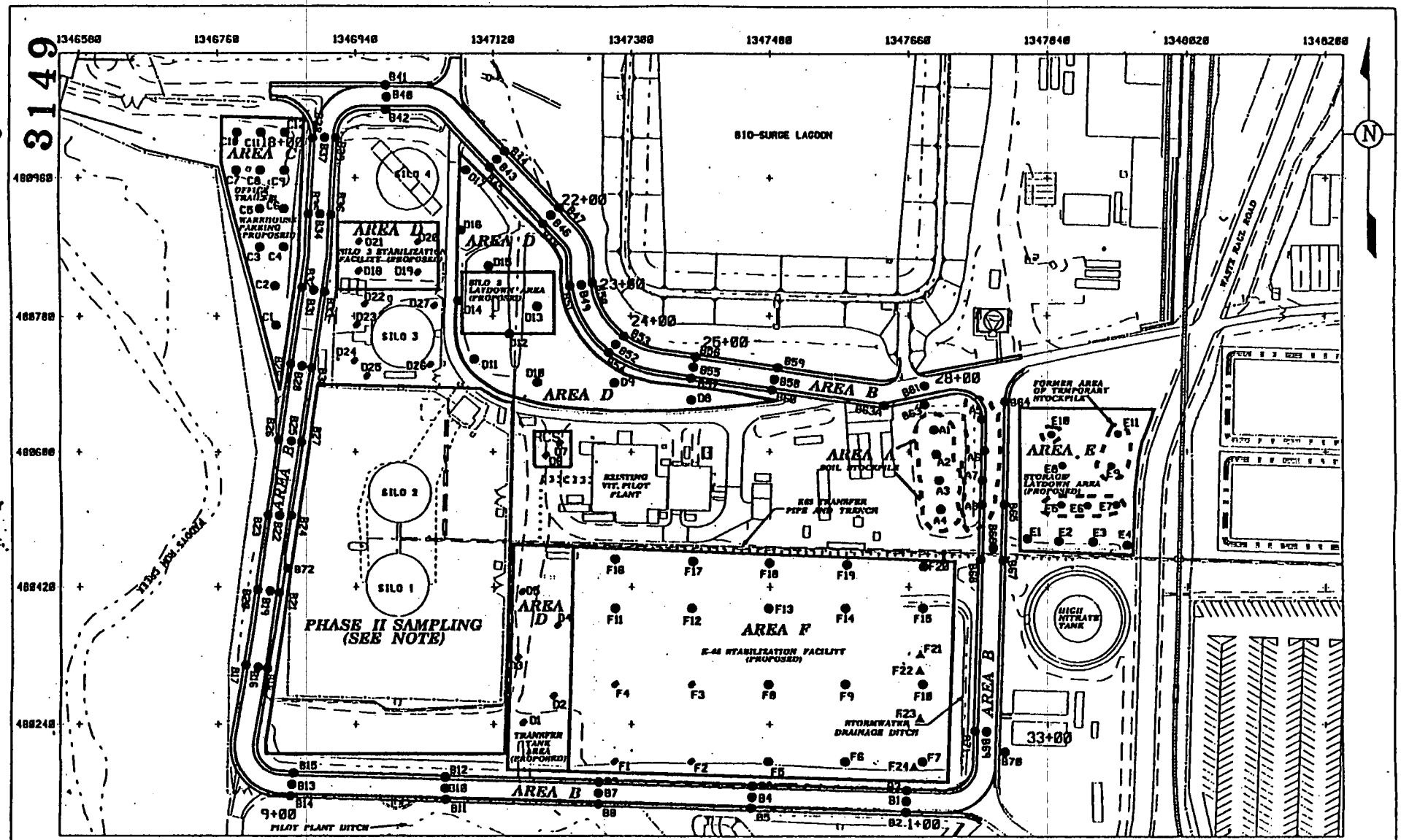
REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:

V/FCN 2050 PSP1-15
Page 2 of 2

3149



NOTE:
PHASE II SAMPLING TO BE PERFORMED UNDER SEPARATE PSP

LEGEND:
- ● SAMPLE/BORING LOCATION
- • DEEP BORING LOCATION IN AREAS OF FUTURE BUILDING FOUNDATIONS
- ▲ CISTERN/PIPING SAMPLE LOCATIONS

SCALE
180 90 0 180 FEET

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STATE PLANAR COORDINATE SYSTEM 1983

25-FEB-2000

FIGURE 1. SILOS PROJECT AREA, SOIL WAC ATTAINMENT SAMPLING LOCATIONS

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APPENDIX E

HISTORICAL DATA FOR THE PILOT PLANT DITCH

Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid	Units	Sample Type	
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Aluminum	17400.0	-	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Aluminum	8690.0	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Aluminum	269.0	J	mg/L	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Aluminum	22500.0	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Aluminum	5450.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Aluminum	345.0	J	mg/L	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Ammonia	93.6	-	mg/kg	NORMAL	SEDIMENT
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Antimony	22.6	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Arsenic	20.3	-	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Arsenic	6.8	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Arsenic	39.6	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Arsenic	26.0	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Barium	72.3	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Barium	49.8	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Barium	53.0	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Barium	381.0	-	mg/L	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Barium	116.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Barium	204.0	-	mg/L	NORMAL	SOIL
061156	WPA22	21-Apr-91	1.5	2	480066.5	1346835.6	Benzoic acid	59.0	J	ug/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Beryllium	0.5	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Beryllium	0.3	-	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Beryllium	0.7	-	mg/kg	NORMAL	SOIL
061156	WPA22	21-Apr-91	1.5	2	480066.5	1346835.6	bis(2-Ethylhexyl)phthalate	1600.0	-	ug/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Cadmium	5.8	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Calcium	43800.0	-	mg/L	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Calcium	25800.0	-	mg/L	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Calcium	73700.0	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Calcium	1920.0	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Calcium	1060.0	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Calcium	2590.0	J	mg/kg	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Cesium-137	1.0	J	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Cesium-137	0.5	-	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Cesium-137	0.6	J	pCi/g	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Cesium-137	0.6	J	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Cesium-137	0.5	-	pCi/g	NORMAL	SOIL

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Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid.	Units	Sample Type	
SS-23-083	CIS_SYSGEN_151		0	0.5	480121.2	1347722.4	Cesium-137	0.3	NV	pCi/g	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Chloride	40.0	-	mg/kg	NORMAL	SEDIMENT
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Chromium	11.0	-	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Chromium	14.5	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Chromium	22.3	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Chromium	17.3	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Cobalt	11.5	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Cobalt	12.4	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Cobalt	8.3	-	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Cobalt	8.7	-	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Copper	9.1	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Copper	21.4	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Copper	17.6	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Copper	13.3	-	mg/kg	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Fluoride	5.7	-	mg/kg	NORMAL	SEDIMENT
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Gross Alpha	24.5	NV	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Gross Alpha	15.0	NV	pCi/g	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Gross Alpha	26.0	NV	pCi/g	NORMAL	SEDIMENT
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Gross Beta	26.0	NV	pCi/g	NORMAL	SEDIMENT
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Gross Beta	32.4	NV	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Gross Beta	17.0	NV	pCi/g	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Iron	13900.0	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Iron	22800.0	-	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Iron	16200.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Iron	36000.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Lead	1.8	-	mg/L	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Lead	15.5	-	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Lead	16.9	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Lead	12.0	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Lead	19.9	J	mg/kg	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Lead	18.4	J	mg/kg	NORMAL	SEDIMENT
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Magnesium	2910.0	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Magnesium	2060.0	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Magnesium	1740.0	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Magnesium	6940.0	-	mg/L	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Magnesium	25000.0	-	mg/kg	NORMAL	SOIL

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Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid	Units	Sample Type	
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Magnesium	8170.0	-	mg/L	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Manganese	166.0	-	mg/L	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Manganese	1750.0	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Manganese	2790.0	-	mg/L	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Manganese	402.0	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Manganese	457.0	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Manganese	1050.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Molybdenum	2.4	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Molybdenum	4.6	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Molybdenum	2.2	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Neptunium-237	0.1	J	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Nickel	16.4	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Nickel	22.8	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Nickel	26.8	-	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Nickel	10.7	-	mg/kg	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Nitrate	2.6	J	mg/kg	NORMAL	SEDIMENT
061156	WPA22	21-Apr-91	1.5	2	480066.5	1346835.6	Phenol	230.0	J	ug/kg	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Phosphorus	38.9	-	mg/kg	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Plutonium-239/240	0.8	J	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Plutonium-239/240	0.6	J	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Plutonium-241	0.2	-	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Potassium	2090.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Potassium	2580.0	-	mg/kg	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Potassium	659.0	J	mg/kg	NORMAL	SEDIMENT
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Potassium	876.0	-	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Potassium	530.0	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Potassium	1670.0	-	mg/L	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Potassium	7210.0	-	mg/L	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Radium-226	0.3	-	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Radium-226	1.0	J	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Radium-226	1.1	J	pCi/g	NORMAL	SOIL
SD-40-013	CIS_SYSGEN_146		0	0.42	480108.4	1347052.0	Radium-226	0.7	NV	pCi/g	NORMAL	SEDIMENT
SD-40-011	CIS_SYSGEN_144		0	0.5	480090.4	1347220.0	Radium-226	0.8	NV	pCi/g	NORMAL	SEDIMENT
SS-23-083	CIS_SYSGEN_151		0	0.5	480121.2	1347722.4	Radium-226	0.5	NV	pCi/g	NORMAL	SOIL
SS-23-076	CIS_SYSGEN_152		0	0.5	480123.9	1347622.5	Radium-226	1.1	NV	pCi/g	NORMAL	SOIL
SD-40-010	CIS_SYSGEN_142		0	0.33	480068.4	1347301.0	Radium-226	0.7	NV	pCi/g	NORMAL	SEDIMENT

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Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid	Units	Sample Type	
SD-40-014	CIS_SYSGEN_141		0	0.17	480068.4	1346962.0	Radium-226	0.8	NV	pCi/g	NORMAL	SEDIMENT
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Radium-226	1.2	-	pCi/g	NORMAL	SOIL
SD-40-008	CIS_SYSGEN_135		0	0.5	479957.4	1347456.0	Radium-226	0.7	NV	pCi/g	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Radium-226	1.1	-	pCi/g	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Radium-226	0.7	J	pCi/g	NORMAL	SEDIMENT
SS-23-070	CIS_SYSGEN_153		0	0.5	480126.7	1347522.5	Radium-226	0.9	NV	pCi/g	NORMAL	SOIL
SD-40-005	CIS_SYSGEN_132		0	0.5	479808.4	1347713.0	Radium-226	0.8	NV	pCi/g	NORMAL	SEDIMENT
SD-40-007	CIS_SYSGEN_134		0	0.5	479913.4	1347543.0	Radium-226	0.6	NV	pCi/g	NORMAL	SEDIMENT
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Radium-226	1.2	-	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Radium-228	1.1	-	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Radium-228	0.9	J	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Radium-228	0.9	-	pCi/g	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Radium-228	0.9	J	pCi/g	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Radium-228	1.0	-	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Selenium	0.4	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Silicon	54.3	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Silicon	86.5	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Silicon	119.0	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Silicon	2380.0	J	mg/L	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Silver	9.0	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Sodium	45.2	-	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Sodium	67.1	-	mg/kg	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Strontium-90	1.1	-	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Strontium-90	0.5	-	pCi/g	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Sulfate	418.0	-	mg/kg	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Technetium-99	0.2	J	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Thallium	0.3	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Thallium	0.4	-	mg/kg	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Thorium-228	1.1	-	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Thorium-228	1.3	J	pCi/g	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Thorium-228	0.3	J	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Thorium-228	1.4	-	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Thorium-228	1.1	J	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Thorium-228	0.9	-	pCi/g	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Thorium-230	0.4	J	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Thorium-230	2.0	-	pCi/g	NORMAL	SOIL

000111

Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid.	Units	Sample Type	
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Thorium-230	1.4	-	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Thorium-230	2.2	-	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Thorium-230	8.4	-	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Thorium-230	3.2	-	pCi/g	NORMAL	SOIL
SD-40-005	CIS_SYSGEN_132		0	0.5	479808.4	1347713.0	Thorium-232	1.2	NV	pCi/g	NORMAL	SEDIMENT
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Thorium-232	5.2	-	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Thorium-232	1.0	-	pCi/g	NORMAL	SOIL
SS-23-070	CIS_SYSGEN_153		0	0.5	480126.7	1347522.5	Thorium-232	1.0	NV	pCi/g	NORMAL	SOIL
SS-23-076	CIS_SYSGEN_152		0	0.5	480123.9	1347622.5	Thorium-232	1.1	NV	pCi/g	NORMAL	SOIL
SS-23-083	CIS_SYSGEN_151		0	0.5	480121.2	1347722.4	Thorium-232	0.7	NV	pCi/g	NORMAL	SOIL
SD-40-006	CIS_SYSGEN_133		0	0.5	479861.4	1347629.0	Thorium-232	1.2	NV	pCi/g	NORMAL	SEDIMENT
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Thorium-232	0.9	-	pCi/g	NORMAL	SOIL
SD-40-013	CIS_SYSGEN_146		0	0.42	480108.4	1347052.0	Thorium-232	0.6	NV	pCi/g	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Thorium-232	0.9	-	pCi/g	NORMAL	SOIL
SD-40-009	CIS_SYSGEN_138		0	0.42	479998.4	1347370.0	Thorium-232	0.5	NV	pCi/g	NORMAL	SEDIMENT
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Thorium-232	1.1	-	pCi/g	NORMAL	SOIL
SD-40-008	CIS_SYSGEN_135		0	0.5	479957.4	1347456.0	Thorium-232	0.8	NV	pCi/g	NORMAL	SEDIMENT
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Thorium, Total	9.1	NV	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Thorium, Total	47.4	NV	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Thorium, Total	8.2	NV	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Total Organic Carbon	1410.0	NV	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Total Organic Carbon	15200.0	NV	mg/kg	NORMAL	SOIL
200097335	11369	22-Sep-94	2	2.5	479915.5	1347209.2	Total Organic Carbon	2460.0	J	mg/kg	NORMAL	SOIL
200097334	11369	22-Sep-94	0	0.17	479915.5	1347209.2	Total Organic Carbon	421000.0	J	mg/kg	NORMAL	SOIL
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Total Organic Nitrogen	794.0	-	mg/kg	NORMAL	SEDIMENT
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium-234	2.1	NV	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-234	7.1	J	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Uranium-234	21.0	J	pCi/g	NORMAL	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-234	1.1	J	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-234	10.0	NV	pCi/g	NORMAL	SOIL
200031	11369	11-Jul-94	0	0.5	479915.5	1347209.2	Uranium-234	8.6	NV	pCi/g	ARCHIVE	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-234	6.1	NV	pCi/g	NORMAL	SOIL
200029D	11369	28-Jul-94	0	0.17	479915.5	1347209.2	Uranium-234	4.9	NV	pCi/g	DUPLICATE	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Uranium-234	13.0	-	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium-234	0.9	J	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Uranium-234	9.9	-	pCi/g	NORMAL	SOIL

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Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid	Units	Sample Type	
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-234	1.6	NV	pCi/g	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Uranium-234	3.9	J	pCi/g	NORMAL	SOIL
200034	11369	11-Jul-94	0.5	1	479915.5	1347209.2	Uranium-234	3.1	NV	pCi/g	ARCHIVE	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-234	8.4	J	pCi/g	NORMAL	SOIL
200034	11369	11-Jul-94	0.5	1	479915.5	1347209.2	Uranium-235	0.2	NV	pCi/g	ARCHIVE	SOIL
200031	11369	11-Jul-94	0	0.5	479915.5	1347209.2	Uranium-235	0.4	NV	pCi/g	ARCHIVE	SOIL
200029D	11369	28-Jul-94	0	0.17	479915.5	1347209.2	Uranium-235	0.2	NV	pCi/g	DUPLICATE	SOIL
200038	11369	11-Jul-94	1.5	2	479915.5	1347209.2	Uranium-235	0.2	NV	pCi/g	ARCHIVE	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-235	0.1	NV	pCi/g	NORMAL	SOIL
200030D	11369	28-Jul-94	2	2.5	479915.5	1347209.2	Uranium-235	0.2	NV	pCi/g	DUPLICATE	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-235	0.3	NV	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium-235	0.1	NV	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-235	0.4	NV	pCi/g	NORMAL	SOIL
200036	11369	11-Jul-94	1	1.5	479915.5	1347209.2	Uranium-235	0.2	NV	pCi/g	ARCHIVE	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-235/236	0.4	J	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Uranium-235/236	1.4	J	pCi/g	NORMAL	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-235/236	0.1	-	pCi/g	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Uranium-235/236	0.9	-	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-235/236	0.9	-	pCi/g	NORMAL	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-235/236	0.1	J	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium-236	0.0	NV	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-236	0.1	NV	pCi/g	NORMAL	SOIL
200029D	11369	28-Jul-94	0	0.17	479915.5	1347209.2	Uranium-236	0.1	NV	pCi/g	DUPLICATE	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-236	0.1	NV	pCi/g	NORMAL	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-236	0.0	NV	pCi/g	NORMAL	SOIL
200031	11369	11-Jul-94	0	0.5	479915.5	1347209.2	Uranium-236	0.1	NV	pCi/g	ARCHIVE	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium-238	1.2	J	pCi/g	NORMAL	SOIL
SD-40-013	CIS_SYSGEN_146	N/A	0	0.42	480108.4	1347052.0	Uranium-238	3.3	NV	pCi/g	NORMAL	SEDIMENT
SD-40-012	CIS_SYSGEN_143	N/A	0	0.5	480090.4	1347130.0	Uranium-238	6.8	NV	pCi/g	NORMAL	SEDIMENT
SD-40-011	CIS_SYSGEN_144	N/A	0	0.5	480090.4	1347220.0	Uranium-238	4.7	NV	pCi/g	NORMAL	SEDIMENT
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-238	1.6	NV	pCi/g	NORMAL	SOIL
SD-40-013	CIS_SYSGEN_146	N/A	0	0.42	480108.4	1347052.0	Uranium-238	7.6	NV	pCi/g	NORMAL	SEDIMENT
SD-40-014	CIS_SYSGEN_141	N/A	0	0.17	480068.4	1346962.0	Uranium-238	7.4	NV	pCi/g	NORMAL	SEDIMENT
SS-23-083	CIS_SYSGEN_151	N/A	0	0.5	480121.2	1347722.4	Uranium-238	6.4	NV	pCi/g	NORMAL	SOIL
SD-40-010	CIS_SYSGEN_142	N/A	0	0.33	480068.4	1347301.0	Uranium-238	4.8	NV	pCi/g	NORMAL	SEDIMENT
SD-40-015	CIS_SYSGEN_139	N/A	0	0.42	480032.4	1346885.1	Uranium-238	8.1	NV	pCi/g	NORMAL	SEDIMENT

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Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft.)	Bottom Depth (ft.)	Northing	Easting	Analyte	Result	Valid.	Units	Sample Type	
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Uranium-238	13.8	-	pCi/g	NORMAL	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-238	7.3	NV	pCi/g	NORMAL	SOIL
SD-40-009	CIS_SYSGEN_138	N/A	0	0.42	479998.4	1347370.0	Uranium-238	2.9	NV	pCi/g	NORMAL	SEDIMENT
SD-40-016	CIS_SYSGEN_137	N/A	0	0.5	479993.4	1346814.1	Uranium-238	5.6	NV	pCi/g	NORMAL	SEDIMENT
SD-40-008	CIS_SYSGEN_135	N/A	0	0.5	479957.4	1347456.0	Uranium-238	5.2	NV	pCi/g	NORMAL	SEDIMENT
SD-40-007	CIS_SYSGEN_134	N/A	0	0.5	479913.4	1347543.0	Uranium-238	16.3	NV	pCi/g	NORMAL	SEDIMENT
SD-40-006	CIS_SYSGEN_133	N/A	0	0.5	479861.4	1347629.0	Uranium-238	10.5	NV	pCi/g	NORMAL	SEDIMENT
SD-40-005	CIS_SYSGEN_132	N/A	0	0.5	479808.4	1347713.0	Uranium-238	11.5	NV	pCi/g	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-238	8.0	J	pCi/g	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Uranium-238	5.0	J	pCi/g	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium-238	2.1	NV	pCi/g	NORMAL	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium-238	1.2	J	pCi/g	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Uranium-238	21.1	J	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Uranium-238	10.2	-	pCi/g	NORMAL	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium-238	8.6	J	pCi/g	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium-238	9.5	NV	pCi/g	NORMAL	SOIL
200038	11369	11-Jul-94	1.5	2	479915.5	1347209.2	Uranium-238	3.9	NV	pCi/g	ARCHIVE	SOIL
200031	11369	11-Jul-94	0	0.5	479915.5	1347209.2	Uranium-238	7.4	NV	pCi/g	ARCHIVE	SOIL
200036	11369	11-Jul-94	1	1.5	479915.5	1347209.2	Uranium-238	3.7	NV	pCi/g	ARCHIVE	SOIL
200029D	11369	28-Jul-94	0	0.17	479915.5	1347209.2	Uranium-238	4.3	NV	pCi/g	DUPLICATE	SOIL
200034	11369	11-Jul-94	0.5	1	479915.5	1347209.2	Uranium-238	3.9	NV	pCi/g	ARCHIVE	SOIL
200030D	11369	28-Jul-94	2	2.5	479915.5	1347209.2	Uranium-238	5.0	NV	pCi/g	DUPLICATE	SOIL
200029D	11369	28-Jul-94	0	0.17	479915.5	1347209.2	Uranium, Total	17.2	NV	mg/kg	DUPLICATE	SOIL
200036	11369	11-Jul-94	1	1.5	479915.5	1347209.2	Uranium, Total	11.1	NV	mg/kg	ARCHIVE	SOIL
SD-40-010	CIS_SYSGEN_142	N/A	0	0.33	480068.4	1347301.0	Uranium, Total	14.3	NV	pCi/g	NORMAL	SEDIMENT
200038	11369	11-Jul-94	1.5	2	479915.5	1347209.2	Uranium, Total	11.5	NV	mg/kg	ARCHIVE	SOIL
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium, Total	11.5	-	mg/kg	NORMAL	SOIL
SD-40-011	CIS_SYSGEN_144	N/A	0	0.5	480090.4	1347220.0	Uranium, Total	14.0	NV	pCi/g	NORMAL	SEDIMENT
SD-40-012	CIS_SYSGEN_143	N/A	0	0.5	480090.4	1347130.0	Uranium, Total	20.3	NV	pCi/g	NORMAL	SEDIMENT
SD-40-013	CIS_SYSGEN_146	N/A	0	0.42	480108.4	1347052.0	Uranium, Total	22.7	NV	pCi/g	NORMAL	SEDIMENT
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium, Total	2.2	-	mg/kg	NORMAL	SOIL
005511	ZONE 3-152	26-Sep-88	0	0.5	480009.4	1347766.0	Uranium, Total	40.0	J	mg/kg	NORMAL	SOIL
200029D	11369	28-Jul-94	0	0.17	479915.5	1347209.2	Uranium, Total	19.4	NV	mg/kg	DUPLICATE	SOIL
200034	11369	11-Jul-94	0.5	1	479915.5	1347209.2	Uranium, Total	11.7	NV	mg/kg	ARCHIVE	SOIL
200031	11369	11-Jul-94	0	0.5	479915.5	1347209.2	Uranium, Total	21.9	NV	mg/kg	ARCHIVE	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium, Total	1.0	-	mg/kg	NORMAL	SOIL

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Historical Data Summary for the Pilot Plant Ditch Vicinity South of the Silos Area (Detections Above the Minimum Detectable Concentration)

Sample ID	Location ID	Date Collected	Top Depth (ft)	Bottom Depth (ft)	Northing	Easting	Analyte	Result	Valid	Units	Sample Type	
009050	ASIT-010	28-Jun-88	0	0.5	480010.2	1346819.0	Uranium, Total	30.3	J	mg/kg	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium, Total	16.9	-	mg/kg	NORMAL	SOIL
005149	ZONE 3-149	14-Nov-87	0	0.1666667	480009.4	1347516.0	Uranium, Total	63.5	NV	pCi/g	NORMAL	SOIL
005517	ZONE 3-117	26-Sep-88	0	0.5	479759.4	1347766.0	Uranium, Total	43.0	-	mg/kg	NORMAL	SOIL
121100	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Uranium, Total	16.3	-	mg/kg	NORMAL	SOIL
SD-40-014	CIS_SYSGEN_141	N/A	0	0.17	480068.4	1346962.0	Uranium, Total	22.1	NV	pCi/g	NORMAL	SEDIMENT
200030D	11369	28-Jul-94	2	2.5	479915.5	1347209.2	Uranium, Total	15.0	NV	mg/kg	DUPLICATE	SOIL
4S-14	11369	19-Sep-94	2	2.5	479915.5	1347209.2	Uranium, Total	4.7	NV	mg/kg	NORMAL	SOIL
SS-23-070	CIS_SYSGEN_153	N/A	0	0.5	480126.7	1347522.5	Uranium, Total	43.5	NV	mg/kg	NORMAL	SOIL
SD-40-005	CIS_SYSGEN_132	N/A	0	0.5	479808.4	1347713.0	Uranium, Total	34.3	NV	pCi/g	NORMAL	SEDIMENT
SS-23-076	CIS_SYSGEN_152	N/A	0	0.5	480123.9	1347622.5	Uranium, Total	32.2	NV	mg/kg	NORMAL	SOIL
SS-23-083	CIS_SYSGEN_151	N/A	0	0.5	480121.2	1347722.4	Uranium, Total	19.1	NV	mg/kg	NORMAL	SOIL
SD-40-006	CIS_SYSGEN_133	N/A	0	0.5	479861.4	1347629.0	Uranium, Total	31.3	NV	pCi/g	NORMAL	SEDIMENT
91S-14	11369	19-Sep-94	0	0.17	479915.5	1347209.2	Uranium, Total	21.9	NV	mg/kg	NORMAL	SOIL
SD-40-007	CIS_SYSGEN_134	N/A	0	0.5	479913.4	1347543.0	Uranium, Total	48.6	NV	pCi/g	NORMAL	SEDIMENT
200030D	11369	28-Jul-94	2	2.5	479915.5	1347209.2	Uranium, Total	5.1	NV	mg/kg	DUPLICATE	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium, Total	6.3	NV	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Uranium, Total	4.1	NV	mg/kg	NORMAL	SOIL
SD-40-009	CIS_SYSGEN_138	N/A	0	0.42	479998.4	1347370.0	Uranium, Total	8.6	NV	pCi/g	NORMAL	SEDIMENT
SD-40-015	CIS_SYSGEN_139	N/A	0	0.42	480032.4	1346885.1	Uranium, Total	24.1	NV	pCi/g	NORMAL	SEDIMENT
SD-40-016	CIS_SYSGEN_137	N/A	0	0.5	479993.4	1346814.1	Uranium, Total	16.7	NV	pCi/g	NORMAL	SEDIMENT
200030D	11369	28-Jul-94	2	2.5	479915.5	1347209.2	Uranium, Total	9.2	NV	mg/kg	DUPLICATE	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium, Total	28.6	NV	mg/kg	NORMAL	SOIL
SD-40-008	CIS_SYSGEN_135	N/A	0	0.5	479957.4	1347456.0	Uranium, Total	15.5	NV	pCi/g	NORMAL	SEDIMENT
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Uranium, Total	17.9	NV	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Vanadium	37.5	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Vanadium	20.6	-	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Vanadium	34.4	J	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Vanadium	15.5	J	mg/kg	NORMAL	SOIL
200030	11369	11-Jul-94	2	2.5	479915.5	1347209.2	Zinc	55.0	J	mg/kg	NORMAL	SOIL
061150	WPA22	21-Apr-91	0	0.5	480066.5	1346835.6	Zinc	37.4	-	mg/kg	NORMAL	SOIL
121098	500318/SS-33	09-Jul-93	0	0.5	479975.5	1346903.2	Zinc	50.2	J	mg/kg	NORMAL	SOIL
200029	11369	11-Jul-94	0	0.17	479915.5	1347209.2	Zinc	53.1	J	mg/kg	NORMAL	SOIL

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APPENDIX F

ANALYTICAL SUMMARY FOR THE PROPOSED LIME SLUDGE POND CONSTRUCTION LAYDOWN AREA

FLUOR DANIEL FERNALD

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Cincinnati, OH 45253-8704

FACSIMILE LEAD SHEET

No. of Pages: 3
(Including Lead Sheet)

DATE: November 29, 1999

TO: Tom Schneider, Ohio EPA
James Saric, U.S. EPA
Francie Hodge, Tetra Tech

COMPANY NAME:

LOCATION:

FAX NO. TO BE CALLED: (937) 285-6404 TELEPHONE NO.:
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FROM: Jyh-Dong Chiou TELEPHONE NO.: (513) 648-3726

PROJECT NAME: Fernald Environmental Mgmt. CONTRACT NO.: DE-AC24-92OR21972

MESSAGE

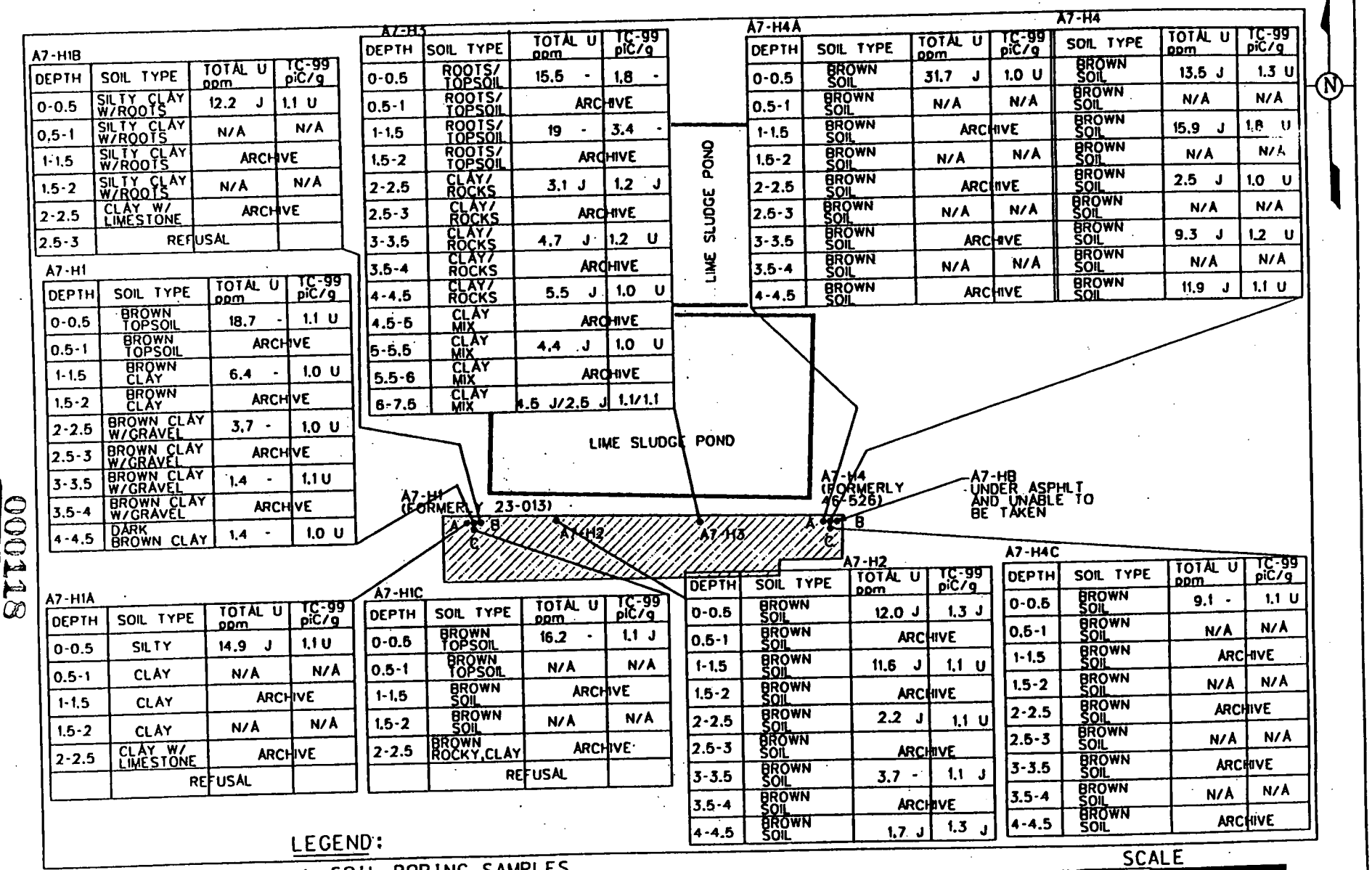
SUBJECT: ANALYTICAL SUMMARY FOR PROPOSED LIME SLUDGE POND (LSP) CONSTRUCTION LAYDOWN AREA SOUTH OF K-65 TRENCH

This cover letter summarizes the analytical data sampled from proposed LSP construction laydown area south of the K-65 trench. Also discussed in this letter, as previously detailed in the draft LSP Implementation Plan comment responses, are the proposed intentions for preparing the laydown area.

Per Variance/Field Change Notice 20500PSP1-11 (reviewed and verbally approved by OEPA in October) physical soil samples were collected to confirm or deny the presence of above-WAC concentrations of technetium-99 (Tc-99) and total uranium. Two sample locations from the previous CIS investigation had above-WAC concentrations for Tc-99. These locations were resampled and bounded with additional sample locations. The analytical results are summarized in the attached map. All the results are validated with non-detect (U), estimated (J), and no data qualifier (-) qualifications.

All the data are below-WAC concentrations for (Tc-99) and total uranium. Based on these results and with regulatory approval, DOE intends to use this area south of the K-65 trench as a construction support/laydown area. Per the August 5, 1999 draft Implementation Plan RTC (Attachment A), the area will be prepared with a geotextile overlaid with 6 inches of stone. DOE requests concurrence to follow this plan based on the below-WAC results.

If you have any questions or concerns, please contact Rich Abitz at (513) 648-4629.



A7-H1B

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	SILTY CLAY W/ROOTS	12.2 J	1.1 U
0.5-1	SILTY CLAY W/ROOTS	N/A	N/A
1-1.5	SILTY CLAY W/ROOTS	ARCHIVE	
1.5-2	SILTY CLAY W/ROOTS	N/A	N/A
2-2.5	CLAY W/ LIMESTONE	ARCHIVE	
2.5-3	REFUSAL		

A7-H1

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	BROWN TOPSOIL	18.7 -	1.1 U
0.5-1	BROWN TOPSOIL	ARCHIVE	
1-1.5	BROWN CLAY	6.4 -	1.0 U
1.5-2	BROWN CLAY	ARCHIVE	
2-2.5	BROWN CLAY W/GRAVEL	3.7 -	1.0 U
2.5-3	BROWN CLAY W/GRAVEL	ARCHIVE	
3-3.5	BROWN CLAY W/GRAVEL	1.4 -	1.1 U
3.5-4	BROWN CLAY W/GRAVEL	ARCHIVE	
4-4.5	DARK BROWN CLAY	1.4 -	1.0 U

A7-H1A

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	SILTY	14.9 J	1.1 U
0.5-1	CLAY	N/A	N/A
1-1.5	CLAY	ARCHIVE	
1.5-2	CLAY	N/A	N/A
2-2.5	CLAY W/ LIMESTONE	ARCHIVE	
	REFUSAL		

A7-H1C

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	BROWN TOPSOIL	16.2 -	1.1 J
0.5-1	BROWN TOPSOIL	N/A	N/A
1-1.5	BROWN SOIL	ARCHIVE	
1.5-2	BROWN SOIL	N/A	N/A
2-2.5	BROWN ROCKY,CLAY	ARCHIVE	
	REFUSAL		

A7-H3

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	ROOTS/ TOPSOIL	15.5 -	1.8 -
0.5-1	ROOTS/ TOPSOIL	ARCHIVE	
1-1.5	ROOTS/ TOPSOIL	19 -	3.4 -
1.5-2	ROOTS/ TOPSOIL	ARCHIVE	
2-2.5	CLAY/ ROCKS	3.1 J	1.2 J
2.5-3	CLAY/ ROCKS	ARCHIVE	
3-3.5	CLAY/ ROCKS	4.7 J	1.2 U
3.5-4	CLAY/ ROCKS	ARCHIVE	
4-4.5	CLAY/ ROCKS	5.5 J	1.0 U
4.5-5	CLAY MIX	ARCHIVE	
5-5.5	CLAY MIX	4.4 J	1.0 U
5.5-6	CLAY MIX	ARCHIVE	
6-7.5	CLAY MIX	4.5 J/2.5 J	1.1/1.1

A7-H4A

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	BROWN SOIL	31.7 J	1.0 U
0.5-1	BROWN SOIL	N/A	N/A
1-1.5	BROWN SOIL	ARCHIVE	
1.5-2	BROWN SOIL	N/A	N/A
2-2.5	BROWN SOIL	ARCHIVE	
2.5-3	BROWN SOIL	N/A	N/A
3-3.5	BROWN SOIL	ARCHIVE	
3.5-4	BROWN SOIL	N/A	N/A
4-4.5	BROWN SOIL	ARCHIVE	

A7-H4

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	BROWN SOIL	13.5 J	1.3 U
0.5-1	BROWN SOIL	N/A	N/A
1-1.5	BROWN SOIL	15.9 J	1.8 U
1.5-2	BROWN SOIL	N/A	N/A
2-2.5	BROWN SOIL	2.5 J	1.0 U
2.5-3	BROWN SOIL	N/A	N/A
3-3.5	BROWN SOIL	9.3 J	1.2 U
3.5-4	BROWN SOIL	N/A	N/A
4-4.5	BROWN SOIL	11.9 J	1.1 U

A7-H2

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	BROWN SOIL	12.0 J	1.3 J
0.5-1	BROWN SOIL	ARCHIVE	
1-1.5	BROWN SOIL	11.6 J	1.1 U
1.5-2	BROWN SOIL	ARCHIVE	
2-2.5	BROWN SOIL	2.2 J	1.1 U
2.5-3	BROWN SOIL	ARCHIVE	
3-3.5	BROWN SOIL	3.7 -	1.1 J
3.5-4	BROWN SOIL	ARCHIVE	
4-4.5	BROWN SOIL	1.7 J	1.3 J

A7-H4C

DEPTH	SOIL TYPE	TOTAL U ppm	TC-99 piC/g
0-0.5	BROWN SOIL	9.1 -	1.1 U
0.5-1	BROWN SOIL	N/A	N/A
1-1.5	BROWN SOIL	ARCHIVE	
1.5-2	BROWN SOIL	N/A	N/A
2-2.5	BROWN SOIL	ARCHIVE	
2.5-3	BROWN SOIL	N/A	N/A
3-3.5	BROWN SOIL	ARCHIVE	
3.5-4	BROWN SOIL	N/A	N/A
4-4.5	BROWN SOIL	ARCHIVE	

LEGEND:

- • SOIL BORING SAMPLES
- — LSP DESIGN PERIMETER
- ▨ AREA 7

DRAFT

FIGURE 1-1. CONSTRUCTION LAYDOWN SAMPLING LOCATIONS

29-NOV-1999

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