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Data Summary Report for IHSS Group 400-6 IHSS 157.2 Radioactive Site South Area

• Environmental Restoration •
Rocky Flats Environmental Technology Site

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IA-A-002380

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Data Summary Report
for IHSS Group 400-6
IHSS 157.2
Radioactive Site South Area

September 2004

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Approval received from the Colorado Department of Public Health and Environment
September 29, 2004
Approval letter contained in the Administrative Record

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ENCLOSURE

Compact Disc Containing Standardized Real and QC Data

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ACRONYMS

AAESE	Accelerated Action Ecological Screening Evaluation
AL	action level
AR	Administrative Record
ASD	Analytical Services Division
bgs	below ground surface
CAS	Chemical Abstracts Service
CD	compact disc
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
DOE	U.S. Department of Energy
DQA	Data Quality Assessment
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FB	field blank
ft	foot
FY	Fiscal Year
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
IMP	Integrated Monitoring Plan
K-H	Kaiser-Hill Company, L.L.C.
LCS	laboratory control sample
µg/kg	micrograms per kilogram (shown on maps as ug/kg)
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
NA	not applicable
NFAA	No Further Accelerated Action
NonRad	nonradionuclide
OPWL	Original Process Waste Lines
PAC	Potential Area of Concern
PAH	polycyclic aromatic hydrocarbon
PARCCS	precision, accuracy, representativeness, completeness, comparability, and sensitivity
PCB	polychlorinated biphenyl

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pCi/g	picocuries per gram
pCi/L	picocuries per liter
POE	Point of Evaluation
QA	quality assurance
QC	quality control
Rad	radionuclide
RFCA	Rocky Flats Cleanup Agreement
RFETS or Site	Rocky Flats Environmental Technology Site
RIN	report identification number
RL	reporting limit
RNS	rinse blank
RPD	relative percent difference
SAP	Sampling and Analysis Plan
SD	standard deviation
SOR	sum of ratios
SSRS	Subsurface Soil Risk Screen
SVOC	semivolatile organic compound
SWD	Soil Water Database
V&V	verification and validation
VOC	volatile organic compound
WRW	wildlife refuge worker
%REC	percent recovery

1.0 INTRODUCTION

This Data Summary Report summarizes accelerated action characterization conducted at Individual Hazardous Substance Site (IHSS) Group 400-6 at the Rocky Flats Environmental Technology Site (RFETS or Site) near Golden, Colorado. These activities were planned and executed in accordance with the Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001) and IASAP Addendum #IA-03-14 (DOE 2003a). Results are compared to wildlife refuge worker (WRW) action levels (ALs) described in the Rocky Flats Cleanup Agreement (RFCA) (DOE et al. 2003). Potential ecological risk associated with the results will be evaluated in the Accelerated Action Ecological Screening Evaluation (AAESE) and the ecological portion of the Sitewide Comprehensive Risk Assessment (CRA). The location of IHSS Group 400-6 (IHSS 157.2) is shown on Figure 1.

This IHSS Group consists of one IHSS: IHSS 157.2 — Radioactive Site South Area.

Approval of this Data Summary Report constitutes regulatory agency concurrence that IHSS Group 400-6 is a No Further Accelerated Action (NFAA) Site. This information and NFAA determination will be documented in the Fiscal Year (FY) 2004 (04) Historical Release Report (HRR).

2.0 SITE CHARACTERIZATION

IHSS Group 400-6 information consists of historical knowledge (DOE 1992-2003), historical sampling data, and recent sampling data. Historical information and data are summarized in Section 2.1. Characterization data collected in accordance with IASAP Addendum #IA-03-14 (DOE 2003a) are presented in Section 2.2.

2.1 Historical Information and Data

The Radioactive Site South Area (IHSS 157.2) includes the paved and unpaved areas surrounding Buildings 444, 445, 447, 448, 450, 451, and 439. Historical information relevant to soil contamination in this IHSS includes the following:

- Before 1973, soil in the vicinity was reported to contain low levels of uranium and organic chemical contamination. Infiltration of hydraulic oil and carbon tetrachloride may have occurred at the uranium machine tool storage area, at the present location of Building 460.

- Operations associated with Building 444 may have contributed to potential contamination in the area. Near the south dock of Building 444, solvents used to clean beryllium parts were disposed on the ground.

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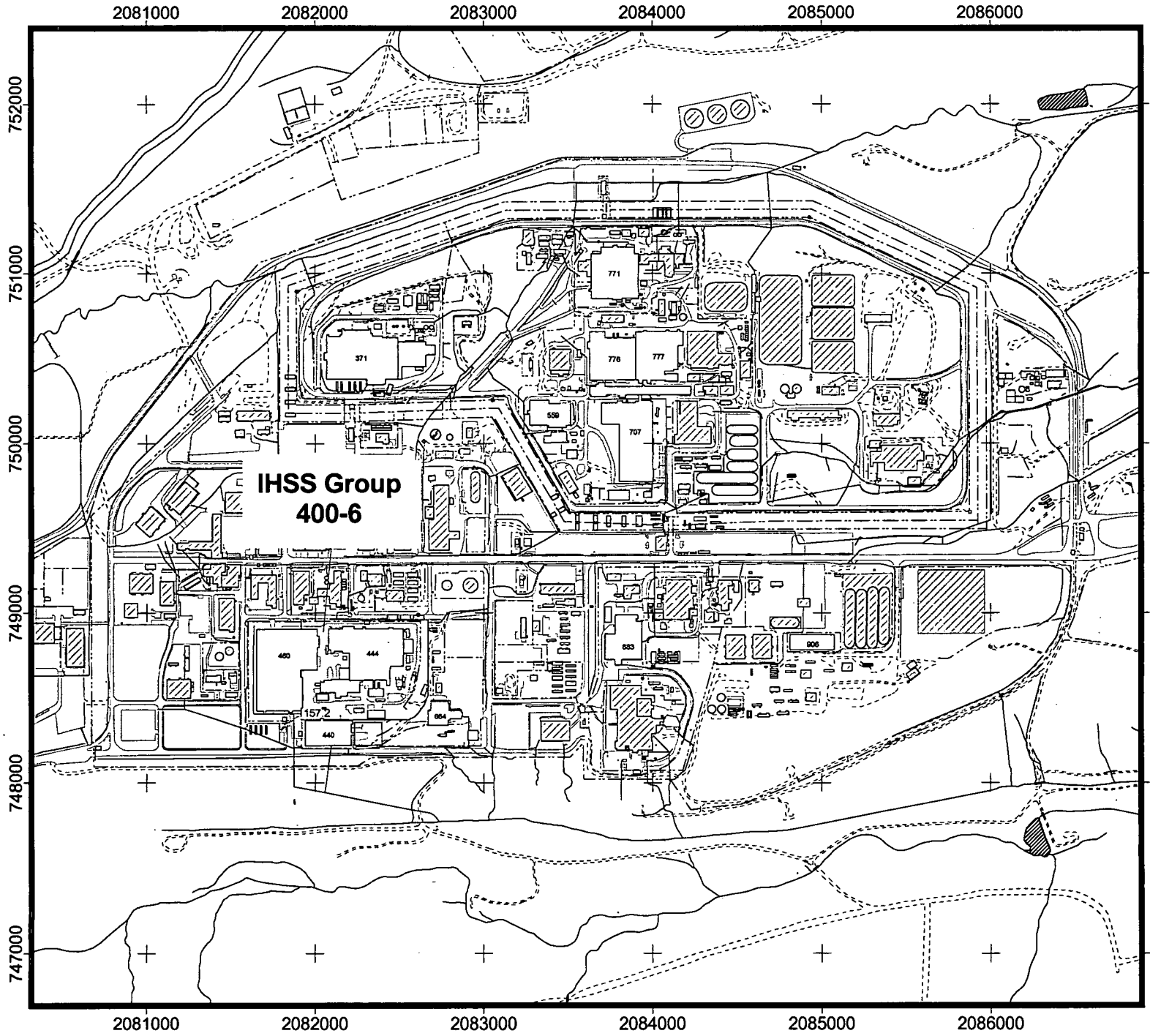

Figure 1
IHSS Group 400-6 Location

KEY

- IHSS Group 400-6
- Paved Road
- Dirt Road
- Stream or Ditch
- Pond

Building

- Demolished
- Standing

N
W E
S

500 0 500 Feet

Scale 1:10,000
State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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- Soil sampling conducted twice in 1954 in a ditch south of Building 444 indicated radioactivity levels of two to three times background; however, this was never documented in the HRR.

- An "ingot open storage area" east of Building 444, a metal storage area, and a uranium machine tool storage area to the west may have contributed to low-level contamination.

- Cooling tower ponds were once present in the area in IHSSs 136.1 and 136.2. (These sites are part of IHSS Group 400-3, not IHSS Group 400-6).

Numerous incidents are mentioned in documents found during the HRR search that indicate potential contaminant releases to the IHSS 157.2 area; however, most of them provide few details. The reported incidents are discussed in Appendix C of the IASAP (DOE 2001).

2.2 Accelerated Action Characterization Data

Table 1 summarizes the proposed and actual accelerated action sampling and analysis at IHSS Group 400-6. A total of 204 sampling locations were planned for IHSS Group 400-6 as part of IASAP Addendum #IA-03-14. Of these, three were omitted from sampling because they overlapped closely with locations sampled in IHSS Group 400-3, and one new location was added.

Table 1
IHSS Group 400-6 Sampling and Analysis Summary

IHSS Group	Category	Planned Total	Actual Total
400-6	Number of Sampling Locations	204	202
	Number of Samples	455	449
	Number of Metal Analyses	455	447
	Number of Radionuclide Analyses	455	447
	Number of SVOC Analyses	34	36
	Number of VOC Analyses	250	249
	Number of Pesticide Analyses	24	24
	Number of PCB Analyses	22	26
	Number of Cyanide Analyses	29	30

The locations omitted because of overlap with IHSS Group 400 3 sampling were BW36-041 (10 feet [ft] from previously sampled location BW36-007), BW36-042 (7.5 ft from previously sampled location BW36-009), and BX36-021 (7.6 ft from previously sampled location BX36-001). In all three cases, the IHSS Group 400-3 samples had been collected at equivalent depths and for equivalent analyte groups as were proposed for IHSS Group 400-6. IHSS Group 400-3 results were presented in a Data Summary Report (DOE 2003b) and the site was approved for NFAA on December 18, 2003. Because of

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the prior NFAA determination for IHSS Group 400-3 areas, it was considered unnecessary to resample at the same locations for the same analytes under the IHSS Group 400-6 project.

Sampling criteria for two other locations were modified because of overlap with previously sampled locations. Metal and radionuclide analyses were omitted from BW36-040 and BX36-020 because these analytes had previously been analyzed at equivalent depths at BW36-014 and BX36-006, both of which were sampled under IHSS Group 400-3. BW36-014 is 6.9 ft from BW36-040 and BX36-006 is 4.9 ft from BX36-020. Volatile organic compound (VOC) analyses proposed for these locations were retained for subsurface samples because VOCs had not been previously analyzed.

One new sampling location, not included in IASAP Addendum #IA-03-14, was added while IHSS Group 400-6 sampling was ongoing. BW35-043 was added as a replacement for BY35-017 because it was discovered that the A and B sampling intervals for BY35-017 had inadvertently been collected at proposed location BY35-009. The C, D, E, and F intervals for BY35-017 were collected later at the planned coordinates.

Only two of the locations proposed and sampled in IHSS Group 400-6 were biased locations. These were collected at downspout locations on the southern side of Building 447. The remainder were statistical locations. Every effort was made to collect statistical samples as close as possible to the coordinates originally planned in IASAP Addendum #IA-03-14, however, offsets were necessary in some cases due to an abundance of buried utilities in the area. Despite the offsets, the overall distribution of statistical samples remains basically uniform and all areas of this IHSS Group are well characterized. Table 2 outlines all of the sampling locations and describes deviations from the planned coordinates.

Accelerated action soil sampling locations and analytical results for IHSS Group 400-6 are summarized in Table 3 and shown on Figures 2 through 10. WRW AL exceedances are indicated in bold in Table 3 and in red on the figures. Only results greater than background means plus two standard deviations or reporting limits (RLs) are presented. Because of the large number of samples at this site, it was necessary to post surface and subsurface soil results separately and divide the area into quadrants. Figure 2 is an index map indicating which figures display the results for each location. All contaminant activities and concentrations are less than RFCA WRW ALs except for arsenic in three subsurface samples and benzo(a)pyrene and dibenz(a,h)anthracene in one subsurface sample.

Arsenic was detected at 23 to 24 milligrams per kilogram (mg/kg) in the 0.5- to 2.5-ft sampling interval at BW35-014, the 0.5- to 2.5-ft sampling interval at BX37-018, and the 0.5- to 2.5-ft sampling interval at BZ36-012. These exceedances are only slightly higher than the WRW AL of 22 mg/kg.

Exceedances of benzo(a)pyrene at 15,000 micrograms per kilogram (μg/kg) and dibenz(a,h)anthracene at 3,600 μg/kg occurred at BY35-008 in the 0.5- to 2.5-ft depth

Table 2
IHSS Group 400-6 Characterization Sampling Deviations

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BV35-000	748509.207	2081934.844	748506.982	2081939.164	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.9 SE	Relocated because of cooling tower water lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BV35-001	748414.128	2081929.186	748410.839	2081927.442	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.7 SW	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BV36-000	748638.942	2081930.760	748633.565	2081927.574	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.3 SW	Relocated because of electrical line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-006	748534.972	2081959.986	748534.938	2081959.965	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-007	748560.737	2081985.129	748560.675	2081985.193	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-008	748474.550	2081944.586	748478.157	2081938.795	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.8 NW	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-009	748500.315	2081969.729	748500.294	2081969.743	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-010	748526.081	2081994.871	748526.139	2081995.005	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BW35-011	748439.893	2081954.328	748439.874	2081954.345	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-012	748465.659	2081979.471	748465.685	2081979.034	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BW35-013	748491.424	2082004.613	748490.553	2082001.045	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.7 W	Relocated because of Building 451 foundation.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BW35-014	748379.471	2081938.928	748379.272	2081934.556	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.4 W	Relocated because of water line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-015	748405.237	2081964.070	748407.550	2081960.448	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.3 NW	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-016	748431.002	2081989.213	748431.471	2081992.209	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.0 E	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-017	748456.767	2082014.355	748456.813	2082014.382	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-018	748370.580	2081973.812	748383.213	2081981.834	Surface Soil	0.0 - 0.5	Radionuclides, Metals	15.0 NE	Relocated because of raw water line and concrete.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-019	748396.345	2081998.955	748393.935	2081999.021	Surface Soil	0.0 - 0.5	Radionuclides, Metals	2.4 S	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-020	748422.110	2082024.098	748413.450	2082024.067	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.7 S	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-021	748447.876	2082049.240	748452.438	2082034.644	Surface Soil	0.0 - 0.5	Radionuclides, Metals	15.3 NW	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-022	748473.641	2082074.383	748468.729	2082074.340	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.9 S	Relocated because of water line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-023	748499.406	2082099.525	748499.228	2082099.739	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 2.2	Radionuclides, Metals, VOCs		
BW35-024	748387.454	2082033.840	748393.716	2082033.702	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.3 N	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-025	748413.219	2082058.982	748413.222	2082059.014	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-026	748438.984	2082084.125	748429.499	2082074.897	Surface Soil	0.0 - 0.5	Radionuclides, Metals	13.2 SW	Relocated because of alarm and power lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-027	748464.750	2082109.267	748470.511	2082103.597	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.1 NW	Relocated because of

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		telephone, sewer, and electric lines.
BW35-028	748490.515	2082134.410	748490.520	2082134.466	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-029	748378.562	2082068.724	748378.686	2082068.836	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-030	748404.328	2082093.867	748404.185	2082104.208	Surface Soil	0.0 - 0.5	Radionuclides, Metals	10.3 E	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-031	748430.093	2082119.010	748427.583	2082122.484	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.3 SE	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-032	748369.671	2082103.609	748370.376	2082106.913	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.4 NE	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-033	748395.436	2082128.752	748395.490	2082132.623	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.9 E	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-034	748528.842	2082119.694	748528.870	2082119.694	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval because of refusal; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BW35-035	748528.526	2082084.198	748528.601	2082080.126	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.1 W	Relocated because of utilities.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BW35-043	748496.679	2082488.915	748496.637	2082489.230	Surface Soil	0.0 - 0.5	Radionuclides, Metals, PCBs, Pesticides, SVOCs	<1.0	No significant change in location. BW35-043 replaces the proposed BY35-017 for the A- and B- depth intervals.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, PCBs, Pesticides, SVOCs		
BW36-018	748742.004	2082031.330	748739.330	2082037.433	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.7 SE	Relocated because of manhole.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-019	748604.286	2081940.502	748605.853	2081934.619	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.1 W	Relocated because of conex

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		boxes. The 0-0.5 ft sample is called BW36-019C and the 0.5-2.5 ft sample is called BW36-019D.
BW36-020	748630.051	2081965.645	748629.541	2081962.535	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.2 W	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-021	748655.816	2081990.787	748656.609	2081990.846	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	Relocated because of underground piping.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-022	748681.582	2082015.930	748661.522	2082015.892	Surface Soil	0.0 - 0.5	Radionuclides, Metals	20.1 S	Relocated because of 13.8-kilovolt electrical line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-023	748707.347	2082041.072	748707.306	2082041.056	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-024	748733.112	2082066.215	748733.082	2082065.968	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-025	748758.878	2082091.358	748758.978	2082090.993	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-026	748569.629	2081950.244	748558.496	2081935.630	Surface Soil	0.0 - 0.5	Radionuclides, Metals	18.4 SW	Relocated because of conex boxes.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-027	748595.394	2081975.387	748595.342	2081975.458	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-028	748621.160	2082000.529	748621.226	2082000.448	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-029	748646.925	2082025.672	748646.899	2082025.727	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-030	748672.690	2082050.815	748672.739	2082051.019	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-031	748698.456	2082075.957	748698.532	2082076.026	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-032	748724.221	2082101.100	748724.258	2082100.980	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		location.
BW36-033	748749.986	2082126.242	748750.017	2082125.915	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-034	748586.503	2082010.272	748586.543	2082010.343	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-035	748612.268	2082035.414	748612.215	2082035.421	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-036	748638.033	2082060.557	748637.706	2082066.016	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.5 E	Relocated because of abandoned phone lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-037	748663.799	2082085.699	748663.792	2082085.977	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval because of refusal; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BW36-038	748689.564	2082110.842	748689.628	2082110.947	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-039	748715.329	2082135.984	748715.264	2082136.020	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-040	748629.142	2082095.441	748629.207	2082095.482	Subsurface Soil	0.5 - 2.5	VOCs	<1.0	This sampling location very closely overlaps with BW36-014, which was sampled previously under IHSS Group 400-3 in the A and B intervals for radionuclides and metals. This location was sampled only for VOCs in the B interval.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BW36-041	748654.910	2082120.580	-----	-----	-----	-----	-----	-----	This sampling location was eliminated because of very close overlap with location BW36-007, previously sampled under IHSS Group 400-3.
BW36-042	748620.250	2082130.330	-----	-----	-----	-----	-----	-----	This sampling location was eliminated because of very close overlap with location BW36-009, previously sampled under IHSS Group 400-3.
BW37-003	748958.836	2081937.993	748954.207	2081938.000	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.6 S	Relocated because of water line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-004	748924.179	2081947.735	748927.972	2081962.446	Surface Soil	0.0 - 0.5	Radionuclides, Metals	15.2 NE	Relocated because of electrical line and concrete.
BW37-005	748949.944	2081972.878	748943.925	2081984.434	Surface Soil	0.0 - 0.5	Radionuclides, Metals	13.0 SE	Relocated because of water line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-006	748915.288	2081982.620	748915.279	2081982.599	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-007	748941.053	2082007.762	748941.022	2082007.823	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-008	748906.396	2082017.504	748916.280	2082017.410	Surface Soil	0.0 - 0.5	Radionuclides, Metals	9.9 N	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-009	748932.161	2082042.647	748932.192	2082042.701	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-010	748957.927	2082067.789	748957.937	2082067.726	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BW37-011	748871.739	2082027.246	748871.646	2082020.575	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.7 W	Relocated because of electrical line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-012	748897.505	2082052.389	748894.914	2082053.040	Surface Soil	0.0 - 0.5	Radionuclides, Metals, PCBs, SVOCs	2.7 S	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, PCBs, SVOCs		
BW37-013	748923.270	2082077.532	748923.174	2082077.476	Surface Soil	0.0 - 0.5	Radionuclides, Metals, PCBs, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, PCBs, SVOCs		
BW37-014	748949.035	2082102.674	748949.026	2082102.629	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-015	748837.083	2082036.989	748836.773	2082039.960	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.0 E	Relocated because of sewer lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-016	748862.848	2082062.131	748866.421	2082055.829	Surface Soil	0.0 - 0.5	Radionuclides, Metals	7.2 NW	Relocated because of sewer and telephone lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-017	748914.378	2082112.416	748914.317	2082112.451	Surface Soil	0.0 - 0.5	Radionuclides, Metals, PCBs, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, PCBs, SVOCs		
BW37-018	748776.660	2082021.588	748774.189	2082019.444	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.3 SW	Relocated because of 13.8-kilovolt electrical line and rig access considerations.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-019	748802.426	2082046.731	748802.398	2082046.677	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-020	748828.191	2082071.873	748827.943	2082052.011	Surface Soil	0.0 - 0.5	Radionuclides, Metals	19.9 W	Relocated because of power lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW37-021	748767.769	2082056.473	748767.735	2082055.975	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BX35-005	748455.858	2082144.152	748444.847	2082144.465	Surface Soil	0.0 - 0.5	Radionuclides, Metals	11.0 S	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-006	748481.624	2082169.295	748473.571	2082169.793	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.1 S	Relocated because of utilities. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BX35-007	748507.389	2082194.437	748507.345	2082194.333	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Pesticides	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Pesticides		
BX35-008	748421.201	2082153.894	748416.910	2082153.797	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.3 S	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-009	748446.967	2082179.037	748443.651	2082173.624	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.3 SW	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-010	748472.732	2082204.179	748472.706	2082204.097	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 2.1	Radionuclides, Metals, VOCs		
BX35-011	748498.497	2082229.322	748498.531	2082229.290	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Pesticides	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Pesticides		
BX35-012	748524.263	2082254.464	748524.243	2082254.365	Surface Soil	0.0 - 0.5	Radionuclides, Metals, PCBs, SVOCs	<1.0	No significant change in location. PCBs were analyzed in the B interval instead of pesticides, which were called for in the IASAP Addendum.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, PCBs		
BX35-013	748550.028	2082279.607	748549.952	2082279.614	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. B interval refusal; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.3	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BX35-014	748386.545	2082163.636	748386.536	2082163.590	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-015	748412.310	2082188.779	748402.944	2082179.575	Surface Soil	0.0 - 0.5	Radionuclides, Metals	13.1 SW	Relocated because of red concrete (indicating underground electrical lines).
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-016	748438.075	2082213.922	748435.526	2082214.186	Surface Soil	0.0 - 0.5	Radionuclides, Metals	2.6 S	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-017	748463.841	2082239.064	748463.851	2082239.044	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-018	748489.606	2082264.207	748489.572	2082263.992	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Pesticides	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs, Pesticides		
BX35-019	748515.371	2082289.349	748515.380	2082289.343	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-020	748377.653	2082198.521	748382.082	2082199.317	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.5 N	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-021	748403.419	2082223.664	748403.422	2082223.707	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-022	748454.949	2082273.949	748454.953	2082273.986	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-023	748480.715	2082299.091	748480.761	2082299.029	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-024	748394.527	2082258.548	748394.459	2082258.573	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-025	748446.058	2082308.833	748446.151	2082305.321	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.5 W	Relocated because of domestic and rainwater pipes.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BX35-026	748385.636	2082293.433	748385.630	2082293.418	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BX36-018	748741.095	2082161.127	748740.841	2082158.325	Surface Soil	0.0 - 0.5	Radionuclides, Metals	2.8 W	Relocated because of underground lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX36-019	748680.673	2082145.727	748680.784	2082145.879	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX36-020	748706.438	2082170.869	748706.353	2082170.806	Subsurface Soil	1.5 - 3.5	VOCs	<1.0	This sampling location very closely overlaps with BX36-006, which was sampled previously under IHSS Group 400-3 in the A and B intervals for radionuclides and metals. This location was sampled only for VOCs. Asphalt and road base 0-1.5 ft.
BX36-021	748732.200	2082196.010	-----	-----	-----	-----	-----	-----	This sampling location was eliminated because of very close overlap with location BX36-001, previously sampled under IHSS Group 400-3.
BX36-022	748584.685	2082269.865	748584.657	2082269.876	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX36-023	748601.559	2082329.892	748601.652	2082329.958	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX37-012	748940.144	2082137.559	748940.121	2082137.551	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BX37-013	748905.487	2082147.301	748908.138	2082147.290	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	2.7 N	Relocated for sample collection rig access.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-014	748931.252	2082172.444	748931.293	2082172.471	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-015	748957.018	2082197.586	748957.062	2082197.572	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-016	748922.361	2082207.328	748922.458	2082207.287	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-017	748948.126	2082232.471	748948.146	2082232.486	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-018	748913.469	2082242.213	748913.451	2082242.134	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-019	748939.235	2082267.356	748939.276	2082267.306	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX37-020	748904.578	2082277.098	748909.235	2082263.861	Surface Soil	0.0 - 0.5	Radionuclides, Metals	14.0 NW	Relocated because of concrete pad and red concrete (indicating buried electrical lines).
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BX37-021	748930.343	2082302.240	748930.346	2082302.225	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-006	748437.166	2082343.718	748437.206	2082343.721	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Refusal in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BY35-007	748462.932	2082368.861	748462.969	2082368.827	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 2.0	Radionuclides, Metals, VOCs		
BY35-008	748514.462	2082419.146	748514.426	2082419.086	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-009	748540.228	2082444.288	748540.248	2082444.235	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location. Same location as BY35-017.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs		
BY35-010	748428.275	2082378.603	748431.342	2082378.524	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.1 N	Relocated because of utilities. Core loss in B interval because of refusal; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BY35-011	748454.040	2082403.745	748454.076	2082403.657	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval because of refusal; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BY35-012	748505.571	2082454.031	748505.523	2082454.023	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-013	748531.336	2082479.173	748531.325	2082479.180	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-014	748557.101	2082504.316	748557.084	2082504.328	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs, Cyanide		
BY35-015	748419.383	2082413.488	748419.226	2082416.680	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.2 E	Relocated because of building electrical line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-016	748445.149	2082438.630	748440.877	2082438.771	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.3 S	Relocated because of transformer.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-017	748496.679	2082488.915	748540.182	2082444.037	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	62.5 NW	The A- and B- interval samples for BY35-017 were inadvertently collected at the proposed BY35-009 location. Location BW35-043 was subsequently sampled in the A and B intervals at the proposed BY35-017 location to compensate. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BY35-017-01	748496.679	2082488.915	748496.637	2082489.230	Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs	<1.0	The C, D, E, and F intervals for BY35-017 were sampled at the proposed BY35-017 location. The location code for these intervals was subsequently changed to BY35-017-01 to distinguish from the A and B intervals that were sampled at a different location.
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-018	748522.445	2082514.058	748523.313	2082514.205	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs, Cyanide		
BY35-019	748384.727	2082423.230	748384.708	2082423.194	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-020	748410.492	2082448.372	748410.527	2082448.334	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BY35-021	748436.257	2082473.515	748436.327	2082473.584	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-022	748462.023	2082498.657	748462.048	2082498.673	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-023	748375.835	2082458.114	748379.300	2082453.770	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.6 NW	Relocated because of Building 440 electrical equipment.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BY35-024	748401.601	2082483.257	748405.025	2082480.264	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.5 NW	Relocated because of Building 440 electrical equipment.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-025	748427.366	2082508.400	748427.507	2082508.434	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-026	748453.131	2082533.542	748453.168	2082533.498	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-027	748392.709	2082518.142	748392.771	2082518.088	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BY36-019	748635.306	2082449.947	748635.407	2082464.994	Surface Soil	0.0 - 0.5	Radionuclides, Metals, VOCs	15.0 E	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-020	748661.072	2082475.089	748661.126	2082475.072	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
BY36-021	748712.602	2082525.374	748708.422	2082541.924	Surface Soil	0.0 - 0.5	Radionuclides, Metals	17.1 SE	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-022	748600.650	2082459.689	748600.633	2082459.708	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide		
BY36-023	748626.415	2082484.831	748626.390	2082484.841	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-024	748652.180	2082509.974	748645.052	2082506.089	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.1 SW	Relocated because of water and alarm lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-025	748677.946	2082535.117	748681.514	2082539.991	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.0 NE	Relocated because of concrete pad.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-026	748565.993	2082469.431	748566.461	2082476.484	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	7.1 E	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY36-027	748591.758	2082494.574	748591.754	2082494.586	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs, Cyanide		
BY36-028	748617.524	2082519.716	748617.479	2082519.773	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-029	748582.867	2082529.458	748582.834	2082529.476	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BY37-017	748921.452	2082337.125	748921.490	2082337.075	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-018	748947.217	2082362.268	748951.231	2082355.392	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.0 NW	Relocated because of power lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ35-008-01	748409.583	2082578.169	748409.599	2082578.159	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ35-009	748435.348	2082603.311	748435.307	2082603.334	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ35-010-02	748461.114	2082628.454	748461.100	2082628.471	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ36-006	748729.476	2082585.402	748729.523	2082585.384	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-007	748755.242	2082610.544	748755.292	2082615.863	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.3 E	Relocated because of water and power lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-008	748643.289	2082544.859	748643.253	2082544.851	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-009	748669.054	2082570.001	748669.070	2082569.988	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-010	748694.819	2082595.144	748694.805	2082595.095	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		location.
BZ36-011	748720.585	2082620.286	748720.587	2082620.333	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.0	Radionuclides, Metals, VOCs		
BZ36-012	748746.350	2082645.429	748746.379	2082645.463	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-013	748608.632	2082554.601	748608.609	2082554.570	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-014	748634.397	2082579.743	748634.482	2082579.775	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-015	748660.163	2082604.886	748660.118	2082604.937	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-016	748685.928	2082630.029	748685.886	2082630.050	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-017	748711.693	2082655.171	748711.698	2082655.123	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-018	748573.975	2082564.343	748573.947	2082564.358	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-019	748599.741	2082589.486	748599.786	2082589.499	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-020	748625.506	2082614.628	748625.475	2082614.606	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-021	748651.271	2082639.771	748651.281	2082639.711	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-022	748677.037	2082664.913	748677.072	2082664.934	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-023	748565.084	2082599.228	748565.076	2082599.290	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-024	748590.849	2082624.370	748590.814	2082624.354	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		location.
BZ36-025	748616.615	2082649.513	748616.668	2082649.540	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-026	748581.958	2082659.255	748582.000	2082659.189	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.2	Radionuclides, Metals, VOCs		
BZ37-003	748928.525	2082561.834	748928.515	2082561.845	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-004	748954.291	2082586.976	748949.922	2082587.164	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.4 S	Relocated because of water and sewer lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-005	748893.869	2082571.576	748893.935	2082571.665	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BZ37-006	748919.634	2082596.718	748913.229	2082591.552	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.2 SW	Relocated because of water lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-007	748945.399	2082621.861	748945.433	2082621.830	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ37-008	748859.212	2082581.318	748859.241	2082581.274	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-009	748884.977	2082606.460	748884.946	2082606.463	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-010	748910.742	2082631.603	748910.720	2082631.635	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-011	748936.508	2082656.746	748936.491	2082656.742	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. The IASAP Addendum called for cyanide
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Media	Actual Depth Interval (ft bgs)	Actual Analytes	Relocation Distance & Direction (ft)	Comment
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		in the E interval; however, this analysis was omitted.
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ37-012	748824.555	2082591.060	748824.548	2082591.036	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval; however, all analyses were completed.
					Subsurface Soil	0.5 - 2.0	Radionuclides, Metals, VOCs		
BZ37-013	748850.320	2082616.203	748850.582	2082621.345	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.1 E	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-014	748876.086	2082641.345	748876.027	2082641.333	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-015	748901.851	2082666.488	748901.853	2082666.432	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-016	748789.898	2082600.802	748789.841	2082600.852	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-017	748815.664	2082625.945	748815.670	2082625.998	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-018	748841.429	2082651.087	748841.453	2082651.078	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-019	748781.007	2082635.687	748781.077	2082635.664	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-020	748806.772	2082660.829	748806.785	2082660.781	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Table 3
IHSS Group 400-6 Results Greater Than Background Means Plus Two Standard Deviations or RLs

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BV35-000	748506.982	2081939.164	0.0	0.5	Copper	20.000	---	18.060	40900	mg/kg
BV35-001	*748410.839*	*2081927.442*	*0.0*	*0.5*	*Uranium-234*	*2.814*	---	*2.253*	*300*	*pCi/g*
BV35-001	748410.839	2081927.442	0.0	0.5	Uranium-235	0.198	---	0.094	8	pCi/g
BV35-001	748410.839	2081927.442	0.0	0.5	Uranium-238	2.814	---	2.000	351	pCi/g
BV35-001	748410.839	2081927.442	0.5	2.5	Aluminum	39000.000	---	35373.170	228000	mg/kg
BV35-001	748410.839	2081927.442	0.5	2.5	Uranium-238	1.719	---	1.490	351	pCi/g
BV36-000	748633.565	2081927.574	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg
BV36-000	748633.565	2081927.574	0.0	0.5	Strontium	50.000	---	48.940	613000	mg/kg
BV36-000	*748633.565*	*2081927.574*	*0.0*	*0.5*	*Uranium-234*	*5.206*	---	*2.253*	*300*	*pCi/g*
BV36-000	748633.565	2081927.574	0.0	0.5	Uranium-235	0.278	---	0.094	8	pCi/g
BV36-000	748633.565	2081927.574	0.0	0.5	Uranium-238	5.206	---	2.000	351	pCi/g
BV36-000	*748633.565*	*2081927.574*	*0.5*	*2.5*	*Uranium-234*	*3.748*	---	*2.640*	*300*	*pCi/g*
BV36-000	748633.565	2081927.574	0.5	2.5	Uranium-235	0.184	---	0.120	8	pCi/g
BV36-000	748633.565	2081927.574	0.5	2.5	Uranium-238	3.748	---	1.490	351	pCi/g
BW35-006	748534.938	2081959.965	0.0	0.5	Strontium	55.000	---	48.940	613000	mg/kg
BW35-006	*748534.938*	*2081959.965*	*0.0*	*0.5*	*Uranium-234*	*3.928*	---	*2.253*	*300*	*pCi/g*
BW35-006	748534.938	2081959.965	0.0	0.5	Uranium-235	0.206	---	0.094	8	pCi/g
BW35-006	748534.938	2081959.965	0.0	0.5	Uranium-238	3.928	---	2.000	351	pCi/g
BW35-006	*748534.938*	*2081959.965*	*0.5*	*2.5*	*Uranium-234*	*3.885*	---	*2.640*	*300*	*pCi/g*
BW35-006	748534.938	2081959.965	0.5	2.5	Uranium-235	0.194	---	0.120	8	pCi/g
BW35-006	748534.938	2081959.965	0.5	2.5	Uranium-238	3.885	---	1.490	351	pCi/g
BW35-007	*748560.675*	*2081985.193*	*0.0*	*0.5*	*Uranium-234*	*4.229*	---	*2.253*	*300*	*pCi/g*
BW35-007	748560.675	2081985.193	0.0	0.5	Uranium-235	0.216	---	0.094	8	pCi/g
BW35-007	748560.675	2081985.193	0.0	0.5	Uranium-238	4.229	---	2.000	351	pCi/g
BW35-007	*748560.675*	*2081985.193*	*0.5*	*2.5*	*Uranium-234*	*4.192*	---	*2.640*	*300*	*pCi/g*
BW35-007	748560.675	2081985.193	0.5	2.5	Uranium-235	0.299	---	0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW35-007	748560.675	2081985.193	0.5	2.5	Uranium-238	4.192	---	1.490	351	pCi/g
BW35-008	*748478.157*	*2081938.795*	*0.0*	*0.5*	*Uranium-234*	*5.155*	---	*2.253*	*300*	*pCi/g*
BW35-008	748478.157	2081938.795	0.0	0.5	Uranium-235	0.298	---	0.094	8	pCi/g
BW35-008	748478.157	2081938.795	0.0	0.5	Uranium-238	5.155	---	2.000	351	pCi/g
BW35-008	*748478.157*	*2081938.795*	*0.5*	*2.5*	*Uranium-234*	*3.672*	---	*2.640*	*300*	*pCi/g*
BW35-008	748478.157	2081938.795	0.5	2.5	Uranium-235	0.203	---	0.120	8	pCi/g
BW35-008	748478.157	2081938.795	0.5	2.5	Uranium-238	3.672	---	1.490	351	pCi/g
BW35-009	748500.294	2081969.743	0.0	0.5	Iron	19000.000	---	18037.000	307000	mg/kg
BW35-009	748500.294	2081969.743	0.0	0.5	Strontium	49.000	---	48.940	613000	mg/kg
BW35-009	748500.294	2081969.743	0.5	2.5	Uranium-238	2.159	---	1.490	351	pCi/g
BW35-010	748526.139	2081995.005	0.0	0.5	Aluminum	29000.000	---	16902.000	228000	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Chromium	21.000	---	16.990	268	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Copper	29.000	---	18.060	40900	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Iron	22000.000	---	18037.000	307000	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Lithium	17.000	---	11.550	20400	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Nickel	23.000	---	14.910	20400	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Strontium	55.000	---	48.940	613000	mg/kg
BW35-010	748526.139	2081995.005	0.0	0.5	Vanadium	56.000	---	45.590	7150	mg/kg
BW35-010	748526.139	2081995.005	0.5	1.0	Uranium-235	0.159	---	0.120	8	pCi/g
BW35-010	748526.139	2081995.005	0.5	1.0	Uranium-238	1.680	---	1.490	351	pCi/g
BW35-011	*748439.874*	*2081954.345*	*0.0*	*0.5*	*Uranium-234*	*2.509*	---	*2.253*	*300*	*pCi/g*
BW35-011	748439.874	2081954.345	0.0	0.5	Uranium-235	0.184	---	0.094	8	pCi/g
BW35-011	748439.874	2081954.345	0.0	0.5	Uranium-238	2.509	---	2.000	351	pCi/g
BW35-011	748439.874	2081954.345	0.5	2.5	Arsenic	18.000	---	13.140	22.2	mg/kg
BW35-011	748439.874	2081954.345	0.5	2.5	Uranium-238	2.346	---	1.490	351	pCi/g
BW35-012	748465.685	2081979.034	0.5	1.0	Uranium-235	0.172	---	0.120	8	pCi/g
BW35-012	748465.685	2081979.034	0.5	1.0	Uranium-238	1.590	---	1.490	351	pCi/g
BW35-013	748490.553	2082001.045	0.0	0.5	Aluminum	21000.000	---	16902.000	228000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW35-013	748490.553	2082001.045	0.0	0.5	Beryllium	0.970	---	0.966	921	mg/kg
BW35-013	748490.553	2082001.045	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BW35-013	748490.553	2082001.045	0.0	0.5	Copper	24.000	---	18.060	40900	mg/kg
BW35-013	748490.553	2082001.045	0.0	0.5	Iron	19000.000	---	18037.000	307000	mg/kg
BW35-013	748490.553	2082001.045	0.0	0.5	Lithium	13.000	---	11.550	20400	mg/kg
BW35-013	748490.553	2082001.045	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BW35-013	748490.553	2082001.045	0.5	2.5	Acetone	8.000	5.6	---	102000000	µg/kg
BW35-013	748490.553	2082001.045	0.5	2.5	Methylene chloride	1.200	0.98	---	2530000	µg/kg
BW35-013	748490.553	2082001.045	0.5	2.5	Tetrachloroethene	3.300	1.2	---	615000	µg/kg
BW35-014	748379.272	2081934.556	0.0	0.5	Aluminum	21000.000	---	16902.000	228000	mg/kg
BW35-014	748379.272	2081934.556	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BW35-014	748379.272	2081934.556	0.0	0.5	Iron	24000.000	---	18037.000	307000	mg/kg
BW35-014	**748379.272**	**2081934.556**	**0.5**	**2.5**	**Arsenic**	**24.000**	**---**	**13.140**	**22.2**	**mg/kg**
BW35-014	748379.272	2081934.556	0.5	2.5	Uranium-235	0.166	---	0.120	8	pCi/g
BW35-015	748407.550	2081960.448	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BW35-015	748407.550	2081960.448	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg
BW35-015	*748407.550*	*2081960.448*	*0.0*	*0.5*	*Uranium-234*	*3.781*	---	*2.253*	*300*	*pCi/g*
BW35-015	748407.550	2081960.448	0.0	0.5	Uranium-235	0.258	---	0.094	8	pCi/g
BW35-015	748407.550	2081960.448	0.0	0.5	Uranium-238	3.781	---	2.000	351	pCi/g
BW35-015	*748407.550*	*2081960.448*	*0.5*	*2.5*	*Uranium-234*	*4.698*	---	*2.640*	*300*	*pCi/g*
BW35-015	748407.550	2081960.448	0.5	2.5	Uranium-235	0.217	---	0.120	8	pCi/g
BW35-015	748407.550	2081960.448	0.5	2.5	Uranium-238	4.698	---	1.490	351	pCi/g
BW35-016	748431.471	2081992.209	0.0	0.5	Uranium-235	0.162	---	0.094	8	pCi/g
BW35-016	748431.471	2081992.209	0.5	2.5	Uranium-238	1.559	---	1.490	351	pCi/g
BW35-017	748456.813	2082014.382	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BW35-017	748456.813	2082014.382	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BW35-017	748456.813	2082014.382	0.0	0.5	Chromium	19.000	---	16.990	268	mg/kg
BW35-017	748456.813	2082014.382	0.0	0.5	Uranium-235	0.201	---	0.094	8	pCi/g
BW35-017	*748456.813*	*2082014.382*	*0.5*	*2.5*	*Uranium-234*	*4.144*	---	*2.640*	*300*	*pCi/g*

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Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW35-017	748456.813	2082014.382	0.5	2.5	Uranium-235	0.249	---	0.120	8	pCi/g
BW35-017	748456.813	2082014.382	0.5	2.5	Uranium-238	4.144	---	1.490	351	pCi/g
BW35-018	748383.213	2081981.834	0.0	0.5	Uranium-235	0.157	---	0.094	8	pCi/g
BW35-018	748383.213	2081981.834	0.0	0.5	Uranium-238	2.051	---	2.000	351	pCi/g
BW35-018	748383.213	2081981.834	0.5	2.5	Uranium-235	0.152	---	0.120	8	pCi/g
BW35-019	*748393.935*	*2081999.021*	*0.0*	*0.5*	*Uranium-234*	*4.715*	---	*2.253*	*300*	*pCi/g*
BW35-019	748393.935	2081999.021	0.0	0.5	Uranium-235	0.238	---	0.094	8	pCi/g
BW35-019	748393.935	2081999.021	0.0	0.5	Uranium-238	4.715	---	2.000	351	pCi/g
BW35-019	*748393.935*	*2081999.021*	*0.5*	*2.5*	*Uranium-234*	*4.011*	---	*2.640*	*300*	*pCi/g*
BW35-019	748393.935	2081999.021	0.5	2.5	Uranium-235	0.176	---	0.120	8	pCi/g
BW35-019	748393.935	2081999.021	0.5	2.5	Uranium-238	4.011	---	1.490	351	pCi/g
BW35-020	748413.450	2082024.067	0.0	0.5	Strontium	50.000	---	48.940	613000	mg/kg
BW35-020	748413.450	2082024.067	0.5	2.5	Aluminum	43000.000	---	35373.170	228000	mg/kg
BW35-020	748413.450	2082024.067	0.5	2.5	Uranium-235	0.224	---	0.120	8	pCi/g
BW35-020	748413.450	2082024.067	0.5	2.5	Uranium-238	2.588	---	1.490	351	pCi/g
BW35-021	748452.438	2082034.644	0.0	0.5	Uranium-235	0.159	---	0.094	8	pCi/g
BW35-022	748468.729	2082074.340	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BW35-022	748468.729	2082074.340	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BW35-022	*748468.729*	*2082074.340*	*0.0*	*0.5*	*Uranium-234*	*4.348*	---	*2.253*	*300*	*pCi/g*
BW35-022	748468.729	2082074.340	0.0	0.5	Uranium-235	0.198	---	0.094	8	pCi/g
BW35-022	748468.729	2082074.340	0.0	0.5	Uranium-238	4.348	---	2.000	351	pCi/g
BW35-022	*748468.729*	*2082074.340*	*0.5*	*2.5*	*Uranium-234*	*4.516*	---	*2.640*	*300*	*pCi/g*
BW35-022	748468.729	2082074.340	0.5	2.5	Uranium-235	0.210	---	0.120	8	pCi/g
BW35-022	748468.729	2082074.340	0.5	2.5	Uranium-238	4.516	---	1.490	351	pCi/g
BW35-023	748499.228	2082099.739	0.0	0.5	Aluminum	30000.000	---	16902.000	228000	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Antimony	0.560	---	0.470	409	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Arsenic	11.000	---	10.090	22.2	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Beryllium	1.500	---	0.966	921	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Chromium	27.000	---	16.990	268	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW35-023	748499.228	2082099.739	0.0	0.5	Iron	22000.000	---	18037.000	307000	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Lithium	18.000	---	11.550	20400	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Nickel	22.000	---	14.910	20400	mg/kg
BW35-023	748499.228	2082099.739	0.0	0.5	Vanadium	52.000	---	45.590	7150	mg/kg
BW35-023	748499.228	2082099.739	0.5	2.2	4-Methyl-2-pentanone	11.000	4.4	---	16400000	µg/kg
BW35-023	748499.228	2082099.739	0.5	2.2	Aluminum	37000.000	---	35373.170	228000	mg/kg
BW35-023	748499.228	2082099.739	0.5	2.2	Cobalt	41.000	---	29.040	1550	mg/kg
BW35-023	748499.228	2082099.739	0.5	2.2	Tetrachloroethene	1.900	1.1	---	615000	µg/kg
BW35-023	748499.228	2082099.739	0.5	2.2	Xylene	9.900	3.2	---	2040000	µg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Aluminum	46000.000	---	16902.000	228000	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Arsenic	17.000	---	10.090	22.2	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Beryllium	2.700	---	0.966	921	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Chromium	35.000	---	16.990	268	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Iron	30000.000	---	18037.000	307000	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Lithium	19.000	---	11.550	20400	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Mercury	0.230	---	0.134	25200	mg/kg
BW35-024	748393.716	2082033.702	0.0	0.5	Nickel	26.000	---	14.910	20400	mg/kg
BW35-024	*748393.716*	*2082033.702*	*0.0*	*0.5*	*Uranium-234*	*3.547*	---	*2.253*	*300*	*pCi/g*
BW35-024	748393.716	2082033.702	0.0	0.5	Uranium-235	0.191	---	0.094	8	pCi/g
BW35-024	748393.716	2082033.702	0.0	0.5	Uranium-238	3.547	---	2.000	351	pCi/g
BW35-024	748393.716	2082033.702	0.0	0.5	Vanadium	75.000	---	45.590	7150	mg/kg
BW35-024	*748393.716*	*2082033.702*	*0.5*	*2.5*	*Uranium-234*	*4.907*	---	*2.640*	*300*	*pCi/g*
BW35-024	748393.716	2082033.702	0.5	2.5	Uranium-238	4.907	---	1.490	351	pCi/g
BW35-025	748413.222	2082059.014	0.0	0.5	Arsenic	11.000	---	10.090	22.2	mg/kg
BW35-025	748413.222	2082059.014	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BW35-025	748413.222	2082059.014	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BW35-025	748413.222	2082059.014	0.0	0.5	Uranium-235	0.123	---	0.094	8	pCi/g
BW35-025	748413.222	2082059.014	0.5	2.5	Uranium-235	0.140	---	0.120	8	pCi/g
BW35-026	748429.499	2082074.897	0.0	0.5	Aluminum	19000.000	---	16902.000	228000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW35-026	748429.499	2082074.897	0.0	0.5	Arsenic	11.000	---	10.090	22.2	mg/kg
BW35-026	748429.499	2082074.897	0.0	0.5	Chromium	19.000	---	16.990	268	mg/kg
BW35-026	748429.499	2082074.897	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BW35-026	748429.499	2082074.897	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BW35-026	*748429.499*	*2082074.897*	*0.0*	*0.5*	*Uranium-234*	*4.841*	---	*2.253*	*300*	*pCi/g*
BW35-026	748429.499	2082074.897	0.0	0.5	Uranium-235	0.263	---	0.094	8	pCi/g
BW35-026	748429.499	2082074.897	0.0	0.5	Uranium-238	4.841	---	2.000	351	pCi/g
BW35-026	748429.499	2082074.897	0.5	2.5	Aluminum	41000.000	---	35373.170	228000	mg/kg
BW35-026	748429.499	2082074.897	0.5	2.5	Arsenic	17.000	---	13.140	22.2	mg/kg
BW35-026	*748429.499*	*2082074.897*	*0.5*	*2.5*	*Uranium-234*	*4.808*	---	*2.640*	*300*	*pCi/g*
BW35-026	748429.499	2082074.897	0.5	2.5	Uranium-235	0.235	---	0.120	8	pCi/g
BW35-026	748429.499	2082074.897	0.5	2.5	Uranium-238	4.808	---	1.490	351	pCi/g
BW35-027	748470.511	2082103.597	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg
BW35-027	748470.511	2082103.597	0.0	0.5	Copper	39.000	---	18.060	40900	mg/kg
BW35-027	748470.511	2082103.597	0.0	0.5	Tin	3.300	---	2.900	613000	mg/kg
BW35-027	*748470.511*	*2082103.597*	*0.0*	*0.5*	*Uranium-234*	*4.437*	---	*2.253*	*300*	*pCi/g*
BW35-027	748470.511	2082103.597	0.0	0.5	Uranium-238	4.437	---	2.000	351	pCi/g
BW35-027	748470.511	2082103.597	0.5	2.5	Arsenic	16.000	---	13.140	22.2	mg/kg
BW35-027	*748470.511*	*2082103.597*	*0.5*	*2.5*	*Uranium-234*	*3.829*	---	*2.640*	*300*	*pCi/g*
BW35-027	748470.511	2082103.597	0.5	2.5	Uranium-235	0.232	---	0.120	8	pCi/g
BW35-027	748470.511	2082103.597	0.5	2.5	Uranium-238	3.829	---	1.490	351	pCi/g
BW35-028	748490.520	2082134.466	0.0	0.5	Copper	39.000	---	18.060	40900	mg/kg
BW35-028	*748490.520*	*2082134.466*	*0.0*	*0.5*	*Uranium-234*	*4.496*	---	*2.253*	*300*	*pCi/g*
BW35-028	748490.520	2082134.466	0.0	0.5	Uranium-235	0.186	---	0.094	8	pCi/g
BW35-028	748490.520	2082134.466	0.0	0.5	Uranium-238	4.496	---	2.000	351	pCi/g
BW35-028	*748490.520*	*2082134.466*	*0.5*	*2.5*	*Uranium-234*	*4.269*	---	*2.640*	*300*	*pCi/g*
BW35-028	748490.520	2082134.466	0.5	2.5	Uranium-235	0.206	---	0.120	8	pCi/g
BW35-028	748490.520	2082134.466	0.5	2.5	Uranium-238	4.269	---	1.490	351	pCi/g
BW35-029	748378.686	2082068.836	0.0	0.5	Zinc	78.000	---	73.760	307000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW35-029	748378.686	2082068.836	0.5	2.5	Aluminum	38000.000	---	35373.170	228000	mg/kg
BW35-029	748378.686	2082068.836	0.5	2.5	Arsenic	18.000	---	13.140	22.2	mg/kg
BW35-029	748378.686	2082068.836	0.5	2.5	Uranium-235	0.243	---	0.120	8	pCi/g
BW35-029	748378.686	2082068.836	0.5	2.5	Uranium-238	2.309	---	1.490	351	pCi/g
BW35-030	*748404.185*	*2082104.208*	*0.0*	*0.5*	*Uranium-234*	*2.473*	---	*2.253*	*300*	*pCi/g*
BW35-030	748404.185	2082104.208	0.0	0.5	Uranium-238	2.473	---	2.000	351	pCi/g
BW35-030	748404.185	2082104.208	0.5	2.5	Uranium-235	0.126	---	0.120	8	pCi/g
BW35-031	748427.583	2082122.484	0.5	2.5	Uranium-238	1.870	---	1.490	351	pCi/g
BW35-032	748370.376	2082106.913	0.0	0.5	Uranium-235	0.114	---	0.094	8	pCi/g
BW35-032	748370.376	2082106.913	0.5	2.5	Aluminum	42000.000	---	35373.170	228000	mg/kg
BW35-032	748370.376	2082106.913	0.5	2.5	Uranium-235	0.162	---	0.120	8	pCi/g
BW35-033	748395.490	2082132.623	0.5	2.5	Tetrachloroethene	3.000	1.2	---	615000	µg/kg
BW35-033	748395.490	2082132.623	0.5	2.5	Toluene	0.940	0.92	---	31300000	µg/kg
BW35-034	748528.870	2082119.694	0.0	0.5	Zinc	86.000	---	73.760	307000	mg/kg
BW35-034	748528.870	2082119.694	0.5	1.5	Uranium-238	1.662	---	1.490	351	pCi/g
BW35-035	748528.601	2082080.126	0.0	0.5	Copper	35.000	---	18.060	40900	mg/kg
BW35-035	748528.601	2082080.126	0.0	0.5	Uranium-235	0.161	---	0.094	8	pCi/g
BW35-035	748528.601	2082080.126	0.0	0.5	Zinc	140.000	---	73.760	307000	mg/kg
BW35-035	748528.601	2082080.126	0.5	1.5	Naphthalene	7.350	6.26	---	3090000	µg/kg
BW35-035	748528.601	2082080.126	0.5	1.5	Uranium-235	0.171	---	0.120	8	pCi/g
BW35-035	748528.601	2082080.126	0.5	1.5	Uranium-238	2.046	---	1.490	351	pCi/g
BW35-043	748496.637	2082489.230	0.0	0.5	Fluoranthene	53.000	24	---	27200000	µg/kg
BW35-043	748496.637	2082489.230	0.0	0.5	Uranium-235	0.126	---	0.094	8	pCi/g
BW35-043	748496.637	2082489.230	0.5	2.5	Uranium-235	0.163	---	0.120	8	pCi/g
BW35-043	748496.637	2082489.230	0.5	2.5	Uranium-238	1.663	---	1.490	351	pCi/g
BW36-018	748739.330	2082037.433	0.0	0.5	Aluminum	20000.000	---	16902.000	228000	mg/kg
BW36-018	748739.330	2082037.433	0.0	0.5	Beryllium	0.990	---	0.966	921	mg/kg
BW36-018	748739.330	2082037.433	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BW36-018	*748739.330*	*2082037.433*	*0.0*	*0.5*	*Uranium-234*	*4.489*	---	*2.253*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW36-018	748739.330	2082037.433	0.0	0.5	Uranium-235	0.226	---	0.094	8	pCi/g
BW36-018	748739.330	2082037.433	0.0	0.5	Uranium-238	4.489	---	2.000	351	pCi/g
BW36-018	*748739.330*	*2082037.433*	*0.5*	*2.5*	*Uranium-234*	*4.413*	---	*2.640*	*300*	*pCi/g*
BW36-018	748739.330	2082037.433	0.5	2.5	Uranium-235	0.258	---	0.120	8	pCi/g
BW36-018	748739.330	2082037.433	0.5	2.5	Uranium-238	4.413	---	1.490	351	pCi/g
BW36-019	748605.853	2081934.619	0.0	0.5	Aluminum	19000.000	---	16902.000	228000	mg/kg
BW36-019	748605.853	2081934.619	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BW36-019	748605.853	2081934.619	0.0	0.5	Uranium-235	0.144	---	0.094	8	pCi/g
BW36-019	748605.853	2081934.619	0.5	2.5	Uranium-238	1.571	---	1.490	351	pCi/g
BW36-019	748605.853	2081934.619	0.5	2.5	Vanadium	100.000	---	88.490	7150	mg/kg
BW36-020	748629.541	2081962.535	0.0	0.5	Chromium	20.000	---	16.990	268	mg/kg
BW36-020	*748629.541*	*2081962.535*	*0.0*	*0.5*	*Uranium-234*	*4.405*	---	*2.253*	*300*	*pCi/g*
BW36-020	748629.541	2081962.535	0.0	0.5	Uranium-235	0.210	---	0.094	8	pCi/g
BW36-020	748629.541	2081962.535	0.0	0.5	Uranium-238	4.405	---	2.000	351	pCi/g
BW36-021	748656.609	2081990.846	0.0	0.5	Strontium	59.000	---	48.940	613000	mg/kg
BW36-021	748656.609	2081990.846	0.0	0.5	Uranium-235	0.255	---	0.094	8	pCi/g
BW36-021	748656.609	2081990.846	0.5	2.5	Manganese	930.000	---	901.620	3480	mg/kg
BW36-021	748656.609	2081990.846	0.5	2.5	Uranium-235	0.155	---	0.120	8	pCi/g
BW36-021	748656.609	2081990.846	0.5	2.5	Uranium-238	1.839	---	1.490	351	pCi/g
BW36-022	*748661.522*	*2082015.892*	*0.0*	*0.5*	*Uranium-234*	*3.886*	---	*2.253*	*300*	*pCi/g*
BW36-022	748661.522	2082015.892	0.0	0.5	Uranium-235	0.228	---	0.094	8	pCi/g
BW36-022	748661.522	2082015.892	0.0	0.5	Uranium-238	3.886	---	2.000	351	pCi/g
BW36-022	*748661.522*	*2082015.892*	*0.5*	*2.5*	*Uranium-234*	*4.226*	---	*2.640*	*300*	*pCi/g*
BW36-022	748661.522	2082015.892	0.5	2.5	Uranium-235	0.193	---	0.120	8	pCi/g
BW36-022	748661.522	2082015.892	0.5	2.5	Uranium-238	4.226	---	1.490	351	pCi/g
BW36-023	748707.306	2082041.056	0.0	0.5	Aluminum	27000.000	---	16902.000	228000	mg/kg
BW36-023	748707.306	2082041.056	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BW36-023	748707.306	2082041.056	0.0	0.5	Cadmium	6.100	---	1.612	962	mg/kg
BW36-023	748707.306	2082041.056	0.0	0.5	Chromium	120.000	---	16.990	268	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW36-023	748707.306	2082041.056	0.0	0.5	Copper	40.000	---	18.060	40900	mg/kg
BW36-023	748707.306	2082041.056	0.0	0.5	Iron	23000.000	---	18037.000	307000	mg/kg
BW36-023	748707.306	2082041.056	0.0	0.5	Lithium	16.000	---	11.550	20400	mg/kg
BW36-023	748707.306	2082041.056	0.0	0.5	Nickel	19.000	---	14.910	20400	mg/kg
BW36-023	748707.306	2082041.056	0.5	2.5	Uranium-235	0.137	---	0.120	8	pCi/g
BW36-024	748733.082	2082065.968	0.0	0.5	Strontium	53.000	---	48.940	613000	mg/kg
BW36-024	*748733.082*	*2082065.968*	*0.0*	*0.5*	*Uranium-234*	*4.709*	---	*2.253*	*300*	*pCi/g*
BW36-024	748733.082	2082065.968	0.0	0.5	Uranium-235	0.247	---	0.094	8	pCi/g
BW36-024	748733.082	2082065.968	0.0	0.5	Uranium-238	4.709	---	2.000	351	pCi/g
BW36-024	748733.082	2082065.968	0.5	2.5	Aluminum	40000.000	---	35373.170	228000	mg/kg
BW36-024	748733.082	2082065.968	0.5	2.5	Uranium-238	1.493	---	1.490	351	pCi/g
BW36-025	748758.978	2082090.993	0.0	0.5	Aluminum	24000.000	---	16902.000	228000	mg/kg
BW36-025	748758.978	2082090.993	0.0	0.5	Chromium	34.000	---	16.990	268	mg/kg
BW36-025	748758.978	2082090.993	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BW36-025	748758.978	2082090.993	0.0	0.5	Mercury	0.150	---	0.134	25200	mg/kg
BW36-025	*748758.978*	*2082090.993*	*0.0*	*0.5*	*Uranium-234*	*5.278*	---	*2.253*	*300*	*pCi/g*
BW36-025	748758.978	2082090.993	0.0	0.5	Uranium-235	0.277	---	0.094	8	pCi/g
BW36-025	748758.978	2082090.993	0.0	0.5	Uranium-238	5.278	---	2.000	351	pCi/g
BW36-025	*748758.978*	*2082090.993*	*0.5*	*2.5*	*Uranium-234*	*2.816*	---	*2.640*	*300*	*pCi/g*
BW36-025	748758.978	2082090.993	0.5	2.5	Uranium-235	0.212	---	0.120	8	pCi/g
BW36-025	748758.978	2082090.993	0.5	2.5	Uranium-238	2.816	---	1.490	351	pCi/g
BW36-026	748558.496	2081935.630	0.0	0.5	Aluminum	26000.000	---	16902.000	228000	mg/kg
BW36-026	748558.496	2081935.630	0.0	0.5	Americium-241	0.085	---	0.023	76	pCi/g
BW36-026	748558.496	2081935.630	0.0	0.5	Antimony	0.480	---	0.470	409	mg/kg
BW36-026	748558.496	2081935.630	0.0	0.5	Beryllium	1.400	---	0.966	921	mg/kg
BW36-026	748558.496	2081935.630	0.0	0.5	Chromium	24.000	---	16.990	268	mg/kg
BW36-026	748558.496	2081935.630	0.5	2.5	Americium-241	0.199	---	0.020	76	pCi/g
BW36-027	748595.342	2081975.458	0.0	0.5	Uranium-235	0.198	---	0.094	8	pCi/g
BW36-027	*748595.342*	*2081975.458*	*0.5*	*2.5*	*Uranium-234*	*3.051*	---	*2.640*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW36-027	748595.342	2081975.458	0.5	2.5	Uranium-235	0.166	---	0.120	8	pCi/g
BW36-027	748595.342	2081975.458	0.5	2.5	Uranium-238	3.051	---	1.490	351	pCi/g
BW36-028	*748621.226*	*2082000.448*	*0.0*	*0.5*	*Uranium-234*	*5.104*	---	*2.253*	*300*	*pCi/g*
BW36-028	748621.226	2082000.448	0.0	0.5	Uranium-235	0.199	---	0.094	8	pCi/g
BW36-028	748621.226	2082000.448	0.0	0.5	Uranium-238	5.104	---	2.000	351	pCi/g
BW36-029	748646.899	2082025.727	0.5	2.5	Uranium-235	0.164	---	0.120	8	pCi/g
BW36-029	748646.899	2082025.727	0.5	2.5	Uranium-238	1.656	---	1.490	351	pCi/g
BW36-030	748672.739	2082051.019	0.0	0.5	Aluminum	22000.000	---	16902.000	228000	mg/kg
BW36-030	748672.739	2082051.019	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg
BW36-030	748672.739	2082051.019	0.0	0.5	Iron	19000.000	---	18037.000	307000	mg/kg
BW36-030	748672.739	2082051.019	0.0	0.5	Lithium	13.000	---	11.550	20400	mg/kg
BW36-030	*748672.739*	*2082051.019*	*0.0*	*0.5*	*Uranium-234*	*5.104*	---	*2.253*	*300*	*pCi/g*
BW36-030	748672.739	2082051.019	0.0	0.5	Uranium-235	0.224	---	0.094	8	pCi/g
BW36-030	748672.739	2082051.019	0.0	0.5	Uranium-238	5.104	---	2.000	351	pCi/g
BW36-030	*748672.739*	*2082051.019*	*0.5*	*2.5*	*Uranium-234*	*3.582*	---	*2.640*	*300*	*pCi/g*
BW36-030	748672.739	2082051.019	0.5	2.5	Uranium-235	0.257	---	0.120	8	pCi/g
BW36-030	748672.739	2082051.019	0.5	2.5	Uranium-238	3.582	---	1.490	351	pCi/g
BW36-031	748698.532	2082076.026	0.0	0.5	Aluminum	20000.000	---	16902.000	228000	mg/kg
BW36-031	748698.532	2082076.026	0.0	0.5	Americium-241	1.270	---	0.023	76	pCi/g
BW36-031	748698.532	2082076.026	0.0	0.5	Antimony	0.600	---	0.470	409	mg/kg
BW36-031	748698.532	2082076.026	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BW36-031	748698.532	2082076.026	0.0	0.5	Plutonium-239/240	0.301	---	0.066	50	pCi/g
BW36-031	748698.532	2082076.026	0.5	2.5	Americium-241	0.725	---	0.020	76	pCi/g
BW36-031	748698.532	2082076.026	0.5	2.5	Methylene chloride	0.920	0.86	---	2530000	µg/kg
BW36-031	748698.532	2082076.026	0.5	2.5	Naphthalene	1.200	0.92	---	3090000	µg/kg
BW36-031	748698.532	2082076.026	0.5	2.5	Plutonium-239/240	0.280	---	0.020	50	pCi/g
BW36-031	748698.532	2082076.026	0.5	2.5	Xylene	3.300	3	---	2040000	µg/kg
BW36-032	748724.258	2082100.980	0.0	0.5	Aluminum	35000.000	---	16902.000	228000	mg/kg
BW36-032	748724.258	2082100.980	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW36-032	748724.258	2082100.980	0.0	0.5	Chromium	23.000	---	16.990	268	mg/kg
BW36-032	748724.258	2082100.980	0.0	0.5	Lithium	14.000	---	11.550	20400	mg/kg
BW36-032	748724.258	2082100.980	0.0	0.5	Mercury	0.140	---	0.134	25200	mg/kg
BW36-032	748724.258	2082100.980	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BW36-032	*748724.258*	*2082100.980*	*0.0*	*0.5*	*Uranium-234*	*2.895*	---	*2.253*	*300*	*pCi/g*
BW36-032	748724.258	2082100.980	0.0	0.5	Uranium-235	0.191	---	0.094	8	pCi/g
BW36-032	748724.258	2082100.980	0.0	0.5	Uranium-238	2.895	---	2.000	351	pCi/g
BW36-032	*748724.258*	*2082100.980*	*0.5*	*2.5*	*Uranium-234*	*3.081*	---	*2.640*	*300*	*pCi/g*
BW36-032	748724.258	2082100.980	0.5	2.5	Uranium-235	0.203	---	0.120	8	pCi/g
BW36-032	748724.258	2082100.980	0.5	2.5	Uranium-238	3.081	---	1.490	351	pCi/g
BW36-033	748750.017	2082125.915	0.0	0.5	Aluminum	20000.000	---	16902.000	228000	mg/kg
BW36-033	748750.017	2082125.915	0.0	0.5	Chromium	74.000	---	16.990	268	mg/kg
BW36-033	748750.017	2082125.915	0.0	0.5	Lithium	13.000	---	11.550	20400	mg/kg
BW36-033	748750.017	2082125.915	0.0	0.5	Nickel	68.000	---	14.910	20400	mg/kg
BW36-033	748750.017	2082125.915	0.5	2.5	Aluminum	38000.000	---	35373.170	228000	mg/kg
BW36-033	748750.017	2082125.915	0.5	2.5	Uranium-238	1.813	---	1.490	351	pCi/g
BW36-034	748586.543	2082010.343	0.0	0.5	Chromium	52.000	---	16.990	268	mg/kg
BW36-034	748586.543	2082010.343	0.0	0.5	Copper	47.000	---	18.060	40900	mg/kg
BW36-034	748586.543	2082010.343	0.0	0.5	Strontium	190.000	---	48.940	613000	mg/kg
BW36-034	*748586.543*	*2082010.343*	*0.0*	*0.5*	*Uranium-234*	*3.777*	---	*2.253*	*300*	*pCi/g*
BW36-034	748586.543	2082010.343	0.0	0.5	Uranium-235	0.222	---	0.094	8	pCi/g
BW36-034	748586.543	2082010.343	0.0	0.5	Uranium-238	3.777	---	2.000	351	pCi/g
BW36-034	748586.543	2082010.343	0.0	0.5	Zinc	190.000	---	73.760	307000	mg/kg
BW36-034	748586.543	2082010.343	0.5	2.5	Copper	40.000	---	38.210	40900	mg/kg
BW36-034	748586.543	2082010.343	0.5	2.5	Naphthalene	7.830	5.82	---	3090000	µg/kg
BW36-034	*748586.543*	*2082010.343*	*0.5*	*2.5*	*Uranium-234*	*5.384*	---	*2.640*	*300*	*pCi/g*
BW36-034	748586.543	2082010.343	0.5	2.5	Uranium-235	0.265	---	0.120	8	pCi/g
BW36-034	748586.543	2082010.343	0.5	2.5	Uranium-238	5.384	---	1.490	351	pCi/g
BW36-034	748586.543	2082010.343	0.5	2.5	Zinc	300.000	---	139.100	307000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW36-035	748612.215	2082035.421	0.0	0.5	Plutonium-239/240	0.552	---	0.066	50	pCi/g
BW36-035	748612.215	2082035.421	0.0	0.5	Uranium-234	2.570	---	2.253	300	pCi/g
BW36-035	748612.215	2082035.421	0.5	2.5	2-Butanone	6.500	5.4	---	192000000	µg/kg
BW36-035	748612.215	2082035.421	0.5	2.5	Acetone	49.000	5.3	---	102000000	µg/kg
BW36-035	748612.215	2082035.421	0.5	2.5	Naphthalene	1.300	0.99	---	3090000	µg/kg
BW36-035	748612.215	2082035.421	0.5	2.5	Tetrachloroethene	1.700	1.1	---	615000	µg/kg
BW36-036	748637.706	2082066.016	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BW36-036	748637.706	2082066.016	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BW36-036	748637.706	2082066.016	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BW36-036	748637.706	2082066.016	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BW36-036	748637.706	2082066.016	0.0	0.5	Uranium-235	0.160	---	0.094	8	pCi/g
BW36-036	748637.706	2082066.016	0.5	2.5	Uranium-238	1.803	---	1.490	351	pCi/g
BW36-037	748663.792	2082085.977	0.0	0.5	Copper	29.000	---	18.060	40900	mg/kg
BW36-037	748663.792	2082085.977	0.0	0.5	Zinc	160.000	---	73.760	307000	mg/kg
BW36-037	748663.792	2082085.977	0.5	1.0	Aluminum	40000.000	---	35373.170	228000	mg/kg
BW36-037	748663.792	2082085.977	0.5	1.0	Arsenic	15.000	---	13.140	22.2	mg/kg
BW36-037	748663.792	2082085.977	0.5	1.0	Tetrachloroethene	12.000	1.2	---	615000	µg/kg
BW36-037	748663.792	2082085.977	0.5	1.0	Trichloroethene	2.300	1	---	19600	µg/kg
BW36-037	748663.792	2082085.977	0.5	1.0	Uranium-235	0.141	---	0.120	8	pCi/g
BW36-038	748689.628	2082110.947	0.0	0.5	Aluminum	45000.000	---	16902.000	228000	mg/kg
BW36-038	748689.628	2082110.947	0.0	0.5	Beryllium	1.900	---	0.966	921	mg/kg
BW36-038	748689.628	2082110.947	0.0	0.5	Chromium	33.000	---	16.990	268	mg/kg
BW36-038	748689.628	2082110.947	0.0	0.5	Iron	22000.000	---	18037.000	307000	mg/kg
BW36-038	748689.628	2082110.947	0.0	0.5	Lithium	23.000	---	11.550	20400	mg/kg
BW36-038	748689.628	2082110.947	0.0	0.5	Mercury	0.210	---	0.134	25200	mg/kg
BW36-038	748689.628	2082110.947	0.0	0.5	Nickel	27.000	---	14.910	20400	mg/kg
BW36-038	*748689.628*	*2082110.947*	*0.0*	*0.5*	*Uranium-234*	*4.178*	---	*2.253*	*300*	*pCi/g*
BW36-038	748689.628	2082110.947	0.0	0.5	Uranium-238	4.178	---	2.000	351	pCi/g
BW36-038	748689.628	2082110.947	0.0	0.5	Vanadium	61.000	---	45.590	7150	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW36-038	*748689.628*	*2082110.947*	*0.5*	*2.5*	*Uranium-234*	*5.122*	---	*2.640*	*300*	*pCi/g*
BW36-038	748689.628	2082110.947	0.5	2.5	Uranium-235	0.213	---	0.120	8	pCi/g
BW36-038	748689.628	2082110.947	0.5	2.5	Uranium-238	5.122	---	1.490	351	pCi/g
BW36-039	748715.264	2082136.020	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BW36-039	748715.264	2082136.020	0.0	0.5	Chromium	22.000	---	16.990	268	mg/kg
BW36-039	748715.264	2082136.020	0.0	0.5	Lead	300.000	---	54.620	1000	mg/kg
BW36-039	748715.264	2082136.020	0.0	0.5	Lithium	16.000	---	11.550	20400	mg/kg
BW36-039	748715.264	2082136.020	0.0	0.5	Nickel	20.000	---	14.910	20400	mg/kg
BW36-039	748715.264	2082136.020	0.0	0.5	Uranium-235	0.118	---	0.094	8	pCi/g
BW36-039	748715.264	2082136.020	0.0	0.5	Vanadium	47.000	---	45.590	7150	mg/kg
BW36-039	748715.264	2082136.020	0.0	0.5	Zinc	190.000	---	73.760	307000	mg/kg
BW36-039	748715.264	2082136.020	0.5	2.5	Xylene	22.100	12	---	2040000	µg/kg
BW37-003	748954.207	2081938.000	0.0	0.5	Uranium-235	0.116	---	0.094	8	pCi/g
BW37-003	748954.207	2081938.000	0.5	2.5	Toluene	6.460	5.47	---	31300000	µg/kg
BW37-003	748954.207	2081938.000	0.5	2.5	Uranium-235	0.182	---	0.120	8	pCi/g
BW37-003	748954.207	2081938.000	0.5	2.5	Uranium-238	1.635	---	1.490	351	pCi/g
BW37-004	748927.972	2081962.446	0.0	0.5	Uranium-235	0.149	---	0.094	8	pCi/g
BW37-005	748943.925	2081984.434	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg
BW37-005	748943.925	2081984.434	0.5	2.5	Naphthalene	1.200	0.92	---	3090000	µg/kg
BW37-006	*748915.279*	*2081982.599*	*0.0*	*0.5*	*Uranium-234*	*3.356*	---	*2.253*	*300*	*pCi/g*
BW37-006	748915.279	2081982.599	0.0	0.5	Uranium-235	0.249	---	0.094	8	pCi/g
BW37-006	748915.279	2081982.599	0.0	0.5	Uranium-238	3.356	---	2.000	351	pCi/g
BW37-007	748941.022	2082007.823	0.0	0.5	Barium	150.000	---	141.260	26400	mg/kg
BW37-007	748941.022	2082007.823	0.0	0.5	Cobalt	18.000	---	10.910	1550	mg/kg
BW37-007	748941.022	2082007.823	0.0	0.5	Copper	22.000	---	18.060	40900	mg/kg
BW37-007	748941.022	2082007.823	0.0	0.5	Iron	22000.000	---	18037.000	307000	mg/kg
BW37-007	748941.022	2082007.823	0.0	0.5	Manganese	510.000	---	365.080	3480	mg/kg
BW37-007	748941.022	2082007.823	0.0	0.5	Nickel	24.000	---	14.910	20400	mg/kg
BW37-007	*748941.022*	*2082007.823*	*0.0*	*0.5*	*Uranium-234*	*2.502*	---	*2.253*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW37-007	748941.022	2082007.823	0.0	0.5	Uranium-238	2.502	---	2.000	351	pCi/g
BW37-007	748941.022	2082007.823	0.0	0.5	Zinc	81.000	---	73.760	307000	mg/kg
BW37-007	*748941.022*	*2082007.823*	*0.5*	*2.5*	*Uranium-234*	*3.799*	---	*2.640*	*300*	*pCi/g*
BW37-007	748941.022	2082007.823	0.5	2.5	Uranium-238	3.799	---	1.490	351	pCi/g
BW37-008	748916.280	2082017.410	0.0	0.5	Uranium-235	0.173	---	0.094	8	pCi/g
BW37-008	748916.280	2082017.410	0.5	2.5	Aluminum	38000.000	---	35373.170	228000	mg/kg
BW37-008	*748916.280*	*2082017.410*	*0.5*	*2.5*	*Uranium-234*	*3.468*	---	*2.640*	*300*	*pCi/g*
BW37-008	748916.280	2082017.410	0.5	2.5	Uranium-235	0.217	---	0.120	8	pCi/g
BW37-008	748916.280	2082017.410	0.5	2.5	Uranium-238	3.468	---	1.490	351	pCi/g
BW37-009	*748932.192*	*2082042.701*	*0.0*	*0.5*	*Uranium-234*	*3.769*	---	*2.253*	*300*	*pCi/g*
BW37-009	748932.192	2082042.701	0.0	0.5	Uranium-235	0.159	---	0.094	8	pCi/g
BW37-009	748932.192	2082042.701	0.0	0.5	Uranium-238	3.769	---	2.000	351	pCi/g
BW37-009	748932.192	2082042.701	0.5	2.5	Uranium-238	1.670	---	1.490	351	pCi/g
BW37-010	748957.937	2082067.726	0.0	0.5	Aluminum	18000.000	---	16902.000	228000	mg/kg
BW37-010	748957.937	2082067.726	0.0	0.5	Uranium-235	0.110	---	0.094	8	pCi/g
BW37-010	748957.937	2082067.726	0.5	2.5	Uranium-235	0.195	---	0.120	8	pCi/g
BW37-010	748957.937	2082067.726	0.5	2.5	Uranium-238	1.842	---	1.490	351	pCi/g
BW37-011	748871.646	2082020.575	0.0	0.5	Aluminum	20000.000	---	16902.000	228000	mg/kg
BW37-011	748871.646	2082020.575	0.0	0.5	Beryllium	1.100	---	0.966	921	mg/kg
BW37-011	748871.646	2082020.575	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BW37-011	748871.646	2082020.575	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BW37-011	*748871.646*	*2082020.575*	*0.5*	*2.5*	*Uranium-234*	*3.025*	---	*2.640*	*300*	*pCi/g*
BW37-011	748871.646	2082020.575	0.5	2.5	Uranium-235	0.151	---	0.120	8	pCi/g
BW37-011	748871.646	2082020.575	0.5	2.5	Uranium-238	3.025	---	1.490	351	pCi/g
BW37-012	748894.914	2082053.040	0.0	0.5	Benzo(a)pyrene	47.000	42	---	3490	µg/kg
BW37-012	748894.914	2082053.040	0.0	0.5	Benzo(b)fluoranthene	39.000	30	---	34900	µg/kg
BW37-012	748894.914	2082053.040	0.0	0.5	Chromium	23.000	---	16.990	268	mg/kg
BW37-012	748894.914	2082053.040	0.0	0.5	Chrysene	43.000	29	---	3490000	µg/kg
BW37-012	748894.914	2082053.040	0.0	0.5	Nickel	15.000	---	14.910	20400	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW37-012	748894.914	2082053.040	0.5	2.5	Acetone	37.000	5.2	---	102000000	µg/kg
BW37-012	748894.914	2082053.040	0.5	2.5	Isophorone	840.000	37	---	29100000	µg/kg
BW37-012	748894.914	2082053.040	0.5	2.5	Tetrachloroethene	1.300	1.1	---	615000	µg/kg
BW37-013	748923.174	2082077.476	0.0	0.5	Antimony	0.550	---	0.470	409	mg/kg
BW37-013	748923.174	2082077.476	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg
BW37-013	748923.174	2082077.476	0.0	0.5	Di-n-octylphthalate	280.000	55	---	14700000	µg/kg
BW37-013	*748923.174*	*2082077.476*	*0.0*	*0.5*	*Uranium-234*	*2.300*	---	*2.253*	*300*	*pCi/g*
BW37-013	748923.174	2082077.476	0.0	0.5	Uranium-238	2.300	---	2.000	351	pCi/g
BW37-014	748949.026	2082102.629	0.0	0.5	Aluminum	18000.000	---	16902.000	228000	mg/kg
BW37-014	748949.026	2082102.629	0.0	0.5	Beryllium	0.980	---	0.966	921	mg/kg
BW37-014	*748949.026*	*2082102.629*	*0.5*	*2.5*	*Uranium-234*	*4.318*	---	*2.640*	*300*	*pCi/g*
BW37-014	748949.026	2082102.629	0.5	2.5	Uranium-235	0.165	---	0.120	8	pCi/g
BW37-014	748949.026	2082102.629	0.5	2.5	Uranium-238	4.318	---	1.490	351	pCi/g
BW37-015	748836.773	2082039.960	0.5	2.5	Acetone	15.000	5.3	---	102000000	µg/kg
BW37-015	748836.773	2082039.960	0.5	2.5	Naphthalene	1.200	0.99	---	3090000	µg/kg
BW37-015	748836.773	2082039.960	0.5	2.5	Tetrachloroethene	1.900	1.1	---	615000	µg/kg
BW37-016	*748866.421*	*2082055.829*	*0.0*	*0.5*	*Uranium-234*	*3.490*	---	*2.253*	*300*	*pCi/g*
BW37-016	748866.421	2082055.829	0.0	0.5	Uranium-235	0.175	---	0.094	8	pCi/g
BW37-016	748866.421	2082055.829	0.0	0.5	Uranium-238	3.490	---	2.000	351	pCi/g
BW37-016	*748866.421*	*2082055.829*	*0.5*	*2.5*	*Uranium-234*	*4.388*	---	*2.640*	*300*	*pCi/g*
BW37-016	748866.421	2082055.829	0.5	2.5	Uranium-235	0.180	---	0.120	8	pCi/g
BW37-016	748866.421	2082055.829	0.5	2.5	Uranium-238	4.388	---	1.490	351	pCi/g
BW37-017	748914.317	2082112.451	0.0	0.5	Aroclor-1254	27.000	4.6	---	12400	µg/kg
BW37-017	748914.317	2082112.451	0.0	0.5	Copper	37.000	---	18.060	40900	mg/kg
BW37-017	*748914.317*	*2082112.451*	*0.0*	*0.5*	*Uranium-234*	*3.392*	---	*2.253*	*300*	*pCi/g*
BW37-017	748914.317	2082112.451	0.0	0.5	Uranium-235	0.245	---	0.094	8	pCi/g
BW37-017	748914.317	2082112.451	0.0	0.5	Uranium-238	3.392	---	2.000	351	pCi/g
BW37-017	748914.317	2082112.451	0.5	2.5	Aroclor-1254	7.300	4.8	---	12400	µg/kg
BW37-017	*748914.317*	*2082112.451*	*0.5*	*2.5*	*Uranium-234*	*3.759*	---	*2.640*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BW37-017	748914.317	2082112.451	0.5	2.5	Uranium-235	0.193	---	0.120	8	pCi/g
BW37-017	748914.317	2082112.451	0.5	2.5	Uranium-238	3.759	---	1.490	351	pCi/g
BW37-018	*748774.189*	*2082019.444*	*0.5*	*2.5*	*Uranium-234*	*4.599*	---	*2.640*	*300*	*pCi/g*
BW37-018	748774.189	2082019.444	0.5	2.5	Uranium-235	0.216	---	0.120	8	pCi/g
BW37-018	748774.189	2082019.444	0.5	2.5	Uranium-238	4.599	---	1.490	351	pCi/g
BW37-019	748802.398	2082046.677	0.0	0.5	Mercury	0.170	---	0.134	25200	mg/kg
BW37-019	*748802.398*	*2082046.677*	*0.0*	*0.5*	*Uranium-234*	*5.205*	---	*2.253*	*300*	*pCi/g*
BW37-019	748802.398	2082046.677	0.0	0.5	Uranium-235	0.251	---	0.094	8	pCi/g
BW37-019	748802.398	2082046.677	0.0	0.5	Uranium-238	5.205	---	2.000	351	pCi/g
BW37-019	*748802.398*	*2082046.677*	*0.5*	*2.5*	*Uranium-234*	*4.163*	---	*2.640*	*300*	*pCi/g*
BW37-019	748802.398	2082046.677	0.5	2.5	Uranium-235	0.170	---	0.120	8	pCi/g
BW37-019	748802.398	2082046.677	0.5	2.5	Uranium-238	4.163	---	1.490	351	pCi/g
BW37-020	748827.943	2082052.011	0.0	0.5	Aluminum	34000.000	---	16902.000	228000	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Beryllium	1.800	---	0.966	921	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Chromium	29.000	---	16.990	268	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Iron	19000.000	---	18037.000	307000	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Lithium	18.000	---	11.550	20400	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Mercury	0.330	---	0.134	25200	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Nickel	26.000	---	14.910	20400	mg/kg
BW37-020	748827.943	2082052.011	0.0	0.5	Uranium-235	0.146	---	0.094	8	pCi/g
BW37-020	748827.943	2082052.011	0.0	0.5	Vanadium	57.000	---	45.590	7150	mg/kg
BW37-021	748767.735	2082055.975	0.0	0.5	Strontium	190.000	---	48.940	613000	mg/kg
BW37-021	*748767.735*	*2082055.975*	*0.0*	*0.5*	*Uranium-234*	*5.293*	---	*2.253*	*300*	*pCi/g*
BW37-021	748767.735	2082055.975	0.0	0.5	Uranium-235	0.248	---	0.094	8	pCi/g
BW37-021	748767.735	2082055.975	0.0	0.5	Uranium-238	5.293	---	2.000	351	pCi/g
BW37-021	748767.735	2082055.975	0.5	2.5	Uranium-235	0.144	---	0.120	8	pCi/g
BX35-005	748444.847	2082144.465	0.0	0.5	Uranium-235	0.106	---	0.094	8	pCi/g
BX35-006	*748473.571*	*2082169.793*	*0.0*	*0.5*	*Uranium-234*	*3.113*	---	*2.253*	*300*	*pCi/g*
BX35-006	748473.571	2082169.793	0.0	0.5	Uranium-235	0.230	---	0.094	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX35-006	748473.571	2082169.793	0.0	0.5	Uranium-238	3.113	---	2.000	351	pCi/g
BX35-006	748473.571	2082169.793	0.5	1.5	Chromium	120.000	---	68.270	268	mg/kg
BX35-006	748473.571	2082169.793	0.5	1.5	Nickel	67.000	---	62.210	20400	mg/kg
BX35-006	*748473.571*	*2082169.793*	*0.5*	*1.5*	*Uranium-234*	*4.700*	---	*2.640*	*300*	*pCi/g*
BX35-006	748473.571	2082169.793	0.5	1.5	Uranium-235	0.297	---	0.120	8	pCi/g
BX35-006	748473.571	2082169.793	0.5	1.5	Uranium-238	4.700	---	1.490	351	pCi/g
BX35-007	*748507.345*	*2082194.333*	*0.0*	*0.5*	*Uranium-234*	*4.763*	---	*2.253*	*300*	*pCi/g*
BX35-007	748507.345	2082194.333	0.0	0.5	Uranium-238	4.763	---	2.000	351	pCi/g
BX35-008	748416.910	2082153.797	0.0	0.5	Copper	33.000	---	18.060	40900	mg/kg
BX35-008	748416.910	2082153.797	0.0	0.5	Iron	20000.000	---	18037.000	307000	mg/kg
BX35-008	748416.910	2082153.797	0.0	0.5	Uranium-235	0.177	---	0.094	8	pCi/g
BX35-008	748416.910	2082153.797	0.0	0.5	Vanadium	52.000	---	45.590	7150	mg/kg
BX35-008	748416.910	2082153.797	0.5	2.5	Uranium-235	0.198	---	0.120	8	pCi/g
BX35-009	748443.651	2082173.624	0.0	0.5	Uranium-235	0.239	---	0.094	8	pCi/g
BX35-010	*748472.706*	*2082204.097*	*0.0*	*0.5*	*Uranium-234*	*3.146*	---	*2.253*	*300*	*pCi/g*
BX35-010	748472.706	2082204.097	0.0	0.5	Uranium-238	3.146	---	2.000	351	pCi/g
BX35-010	*748472.706*	*2082204.097*	*0.5*	*2.1*	*Uranium-234*	*3.361*	---	*2.640*	*300*	*pCi/g*
BX35-010	748472.706	2082204.097	0.5	2.1	Uranium-235	0.235	---	0.120	8	pCi/g
BX35-010	748472.706	2082204.097	0.5	2.1	Uranium-238	3.361	---	1.490	351	pCi/g
BX35-011	748498.531	2082229.290	0.0	0.5	Aluminum	27000.000	---	16902.000	228000	mg/kg
BX35-011	748498.531	2082229.290	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BX35-011	748498.531	2082229.290	0.0	0.5	Chromium	21.000	---	16.990	268	mg/kg
BX35-011	748498.531	2082229.290	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BX35-011	748498.531	2082229.290	0.5	2.5	Tetrachloroethene	1.600	1.1	---	615000	µg/kg
BX35-013	748549.952	2082279.614	0.0	0.5	Copper	24.000	---	18.060	40900	mg/kg
BX35-013	748549.952	2082279.614	0.0	0.5	Uranium-235	0.198	---	0.094	8	pCi/g
BX35-013	748549.952	2082279.614	0.0	0.5	Uranium-238	2.217	---	2.000	351	pCi/g
BX35-013	748549.952	2082279.614	0.0	0.5	Zinc	93.000	---	73.760	307000	mg/kg
BX35-013	748549.952	2082279.614	0.5	1.3	Naphthalene	27.100	5.46	---	3090000	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX35-013	748549.952	2082279.614	0.5	1.3	Uranium-235	0.175	---	0.120	8	pCi/g
BX35-013	748549.952	2082279.614	0.5	1.3	Uranium-238	2.034	---	1.490	351	pCi/g
BX35-014	748386.536	2082163.590	0.0	0.5	Aluminum	18000.000	---	16902.000	228000	mg/kg
BX35-014	748386.536	2082163.590	0.0	0.5	Arsenic	11.000	---	10.090	22.2	mg/kg
BX35-014	748386.536	2082163.590	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BX35-014	748386.536	2082163.590	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BX35-014	748386.536	2082163.590	0.0	0.5	Cobalt	12.000	---	10.910	1550	mg/kg
BX35-014	748386.536	2082163.590	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BX35-014	748386.536	2082163.590	0.0	0.5	Nickel	18.000	---	14.910	20400	mg/kg
BX35-014	*748386.536*	*2082163.590*	*0.0*	*0.5*	*Uranium-234*	*5.105*	---	*2.253*	*300*	*pCi/g*
BX35-014	748386.536	2082163.590	0.0	0.5	Uranium-235	0.200	---	0.094	8	pCi/g
BX35-014	748386.536	2082163.590	0.0	0.5	Uranium-238	5.105	---	2.000	351	pCi/g
BX35-014	748386.536	2082163.590	0.0	0.5	Vanadium	48.000	---	45.590	7150	mg/kg
BX35-014	*748386.536*	*2082163.590*	*0.5*	*2.5*	*Uranium-234*	*4.150*	---	*2.640*	*300*	*pCi/g*
BX35-014	748386.536	2082163.590	0.5	2.5	Uranium-235	0.229	---	0.120	8	pCi/g
BX35-014	748386.536	2082163.590	0.5	2.5	Uranium-238	4.150	---	1.490	351	pCi/g
BX35-015	*748402.944*	*2082179.575*	*0.0*	*0.5*	*Uranium-234*	*4.431*	---	*2.253*	*300*	*pCi/g*
BX35-015	748402.944	2082179.575	0.0	0.5	Uranium-235	0.228	---	0.094	8	pCi/g
BX35-015	748402.944	2082179.575	0.0	0.5	Uranium-238	4.431	---	2.000	351	pCi/g
BX35-015	*748402.944*	*2082179.575*	*0.5*	*2.5*	*Uranium-234*	*4.385*	---	*2.640*	*300*	*pCi/g*
BX35-015	748402.944	2082179.575	0.5	2.5	Uranium-235	0.263	---	0.120	8	pCi/g
BX35-015	748402.944	2082179.575	0.5	2.5	Uranium-238	4.385	---	1.490	351	pCi/g
BX35-016	748435.526	2082214.186	0.0	0.5	Aluminum	24000.000	---	16902.000	228000	mg/kg
BX35-016	748435.526	2082214.186	0.0	0.5	Beryllium	1.100	---	0.966	921	mg/kg
BX35-016	748435.526	2082214.186	0.0	0.5	Chromium	19.000	---	16.990	268	mg/kg
BX35-016	748435.526	2082214.186	0.0	0.5	Lithium	13.000	---	11.550	20400	mg/kg
BX35-016	748435.526	2082214.186	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BX35-016	748435.526	2082214.186	0.0	0.5	Uranium-235	0.125	---	0.094	8	pCi/g
BX35-016	*748435.526*	*2082214.186*	*0.5*	*2.5*	*Uranium-234*	*4.744*	---	*2.640*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX35-016	748435.526	2082214.186	0.5	2.5	Uranium-235	0.214	---	0.120	8	pCi/g
BX35-016	748435.526	2082214.186	0.5	2.5	Uranium-238	4.744	---	1.490	351	pCi/g
BX35-017	*748463.851*	*2082239.044*	*0.0*	*0.5*	*Uranium-234*	*4.026*	---	*2.253*	*300*	*pCi/g*
BX35-017	748463.851	2082239.044	0.0	0.5	Uranium-235	0.246	---	0.094	8	pCi/g
BX35-017	748463.851	2082239.044	0.0	0.5	Uranium-238	4.026	---	2.000	351	pCi/g
BX35-017	*748463.851*	*2082239.044*	*0.5*	*2.5*	*Uranium-234*	*4.447*	---	*2.640*	*300*	*pCi/g*
BX35-017	748463.851	2082239.044	0.5	2.5	Uranium-238	4.447	---	1.490	351	pCi/g
BX35-018	748489.572	2082263.992	0.0	0.5	Antimony	0.480	---	0.470	409	mg/kg
BX35-018	748489.572	2082263.992	0.0	0.5	Endosulfan sulfate	5.500	1.6	---	4420000	µg/kg
BX35-018	*748489.572*	*2082263.992*	*0.0*	*0.5*	*Uranium-234*	*4.959*	---	*2.253*	*300*	*pCi/g*
BX35-018	748489.572	2082263.992	0.0	0.5	Uranium-235	0.229	---	0.094	8	pCi/g
BX35-018	748489.572	2082263.992	0.0	0.5	Uranium-238	4.959	---	2.000	351	pCi/g
BX35-018	748489.572	2082263.992	0.0	0.5	Zinc	94.000	---	73.760	307000	mg/kg
BX35-018	748489.572	2082263.992	0.5	1.5	4,4'-DDE	0.460	0.32	---	101000	µg/kg
BX35-018	748489.572	2082263.992	0.5	1.5	Endosulfan sulfate	0.870	0.33	---	4420000	µg/kg
BX35-018	*748489.572*	*2082263.992*	*0.5*	*1.5*	*Uranium-234*	*3.988*	---	*2.640*	*300*	*pCi/g*
BX35-018	748489.572	2082263.992	0.5	1.5	Uranium-235	0.193	---	0.120	8	pCi/g
BX35-018	748489.572	2082263.992	0.5	1.5	Uranium-238	3.988	---	1.490	351	pCi/g
BX35-019	748515.380	2082289.343	0.0	0.5	Copper	20.000	---	18.060	40900	mg/kg
BX35-019	748515.380	2082289.343	0.5	2.5	Acetone	31.000	5.2	---	102000000	µg/kg
BX35-019	748515.380	2082289.343	0.5	2.5	Naphthalene	3.800	0.97	---	3090000	µg/kg
BX35-019	748515.380	2082289.343	0.5	2.5	Silver	100.000	---	24.540	5110	mg/kg
BX35-019	748515.380	2082289.343	0.5	2.5	Tetrachloroethene	3.600	1.1	---	615000	µg/kg
BX35-020	748382.082	2082199.317	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg
BX35-020	748382.082	2082199.317	0.5	2.5	Uranium-238	1.668	---	1.490	351	pCi/g
BX35-021	748403.422	2082223.707	0.0	0.5	Uranium-235	0.195	---	0.094	8	pCi/g
BX35-021	748403.422	2082223.707	0.0	0.5	Uranium-238	2.178	---	2.000	351	pCi/g
BX35-023	748480.761	2082299.029	0.5	2.5	Americium-241	0.178	---	0.020	76	pCi/g
BX35-023	*748480.761*	*2082299.029*	*0.5*	*2.5*	*Plutonium-239/240*	*1.012*	---	*0.020*	*50*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX35-024	748394.459	2082258.573	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BX35-024	748394.459	2082258.573	0.0	0.5	Uranium-235	0.218	---	0.094	8	pCi/g
BX35-025	748446.151	2082305.321	0.0	0.5	Antimony	0.520	---	0.470	409	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Aluminum	40000.000	---	16902.000	228000	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Arsenic	14.000	---	10.090	22.2	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Beryllium	1.800	---	0.966	921	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Chromium	32.000	---	16.990	268	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Iron	24000.000	---	18037.000	307000	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Lithium	21.000	---	11.550	20400	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Nickel	25.000	---	14.910	20400	mg/kg
BX35-026	748385.630	2082293.418	0.0	0.5	Vanadium	63.000	---	45.590	7150	mg/kg
BX35-026	748385.630	2082293.418	0.5	2.5	Aluminum	55000.000	---	35373.170	228000	mg/kg
BX35-026	748385.630	2082293.418	0.5	2.5	Arsenic	18.000	---	13.140	22.2	mg/kg
BX35-026	*748385.630*	*2082293.418*	*4.5*	*6.5*	*Uranium-234*	*2.873*	---	*2.640*	*300*	*pCi/g*
BX35-026	748385.630	2082293.418	4.5	6.5	Uranium-235	0.185	---	0.120	8	pCi/g
BX35-026	748385.630	2082293.418	4.5	6.5	Uranium-238	2.873	---	1.490	351	pCi/g
BX35-026	748385.630	2082293.418	8.5	10.5	Uranium-238	1.582	---	1.490	351	pCi/g
BX36-018	748740.841	2082158.325	0.0	0.5	Uranium-235	0.193	---	0.094	8	pCi/g
BX36-018	*748740.841*	*2082158.325*	*0.5*	*2.5*	*Uranium-234*	*3.831*	---	*2.640*	*300*	*pCi/g*
BX36-018	748740.841	2082158.325	0.5	2.5	Uranium-235	0.195	---	0.120	8	pCi/g
BX36-018	748740.841	2082158.325	0.5	2.5	Uranium-238	3.831	---	1.490	351	pCi/g
BX36-019	748680.784	2082145.879	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BX36-019	*748680.784*	*2082145.879*	*0.5*	*2.5*	*Uranium-234*	*3.361*	---	*2.640*	*300*	*pCi/g*
BX36-019	748680.784	2082145.879	0.5	2.5	Uranium-235	0.302	---	0.120	8	pCi/g
BX36-019	748680.784	2082145.879	0.5	2.5	Uranium-238	3.361	---	1.490	351	pCi/g
BX36-022	748584.657	2082269.876	0.0	0.5	Cadmium	1.700	---	1.612	962	mg/kg
BX36-022	748584.657	2082269.876	0.0	0.5	Copper	46.000	---	18.060	40900	mg/kg
BX36-022	748584.657	2082269.876	0.0	0.5	Uranium, Total	18.000	---	5.980	2750	mg/kg
BX36-022	*748584.657*	*2082269.876*	*0.0*	*0.5*	*Uranium-234*	*5.213*	---	*2.253*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX36-022	748584.657	2082269.876	0.0	0.5	Uranium-235	0.226	---	0.094	8	pCi/g
BX36-022	748584.657	2082269.876	0.0	0.5	Uranium-238	5.213	---	2.000	351	pCi/g
BX36-022	*748584.657*	*2082269.876*	*0.5*	*2.5*	*Uranium-234*	*3.913*	---	*2.640*	*300*	*pCi/g*
BX36-022	748584.657	2082269.876	0.5	2.5	Uranium-235	0.196	---	0.120	8	pCi/g
BX36-022	748584.657	2082269.876	0.5	2.5	Uranium-238	3.913	---	1.490	351	pCi/g
BX36-023	748601.652	2082329.958	0.0	0.5	Antimony	2.200	---	0.470	409	mg/kg
BX36-023	748601.652	2082329.958	0.0	0.5	Zinc	190.000	---	73.760	307000	mg/kg
BX36-023	748601.652	2082329.958	0.5	2.5	Uranium-235	0.170	---	0.120	8	pCi/g
BX37-012	*748940.121*	*2082137.551*	*0.0*	*0.5*	*Uranium-234*	*3.954*	---	*2.253*	*300*	*pCi/g*
BX37-012	748940.121	2082137.551	0.0	0.5	Uranium-235	0.344	---	0.094	8	pCi/g
BX37-012	748940.121	2082137.551	0.0	0.5	Uranium-238	3.954	---	2.000	351	pCi/g
BX37-012	*748940.121*	*2082137.551*	*0.5*	*2.5*	*Uranium-234*	*3.890*	---	*2.640*	*300*	*pCi/g*
BX37-012	748940.121	2082137.551	0.5	2.5	Uranium-235	0.286	---	0.120	8	pCi/g
BX37-012	748940.121	2082137.551	0.5	2.5	Uranium-238	3.890	---	1.490	351	pCi/g
BX37-013	748908.138	2082147.290	0.0	0.5	Chromium	19.000	---	16.990	268	mg/kg
BX37-013	748908.138	2082147.290	0.0	0.5	Copper	38.000	---	18.060	40900	mg/kg
BX37-013	748908.138	2082147.290	0.0	0.5	Mercury	0.160	---	0.134	25200	mg/kg
BX37-013	748908.138	2082147.290	0.5	2.5	Copper	100.000	---	38.210	40900	mg/kg
BX37-013	748908.138	2082147.290	0.5	2.5	Lead	37.000	---	24.970	1000	mg/kg
BX37-013	748908.138	2082147.290	0.5	2.5	Naphthalene	1.100	1	---	3090000	µg/kg
BX37-013	748908.138	2082147.290	0.5	2.5	Tetrachloroethene	100.000	1.2	---	615000	µg/kg
BX37-013	748908.138	2082147.290	0.5	2.5	Trichloroethene	1.600	1.1	---	19600	µg/kg
BX37-014	748931.293	2082172.471	0.0	0.5	Benzo(a)anthracene	64.000	26	---	34900	µg/kg
BX37-014	748931.293	2082172.471	0.0	0.5	Chrysene	72.000	29	---	3490000	µg/kg
BX37-014	*748931.293*	*2082172.471*	*0.0*	*0.5*	*Uranium-234*	*3.826*	---	*2.253*	*300*	*pCi/g*
BX37-014	748931.293	2082172.471	0.0	0.5	Uranium-235	0.248	---	0.094	8	pCi/g
BX37-014	748931.293	2082172.471	0.0	0.5	Uranium-238	3.826	---	2.000	351	pCi/g
BX37-014	748931.293	2082172.471	0.5	2.5	Acenaphthene	54.000	33	---	40800000	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Anthracene	110.000	25	---	204000000	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX37-014	748931.293	2082172.471	0.5	2.5	Benzo(a)anthracene	260.000	26	---	34900	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Benzo(a)pyrene	240.000	43	---	3490	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Benzo(b)fluoranthene	200.000	31	---	34900	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Benzo(k)fluoranthene	180.000	34	---	349000	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Chrysene	270.000	30	---	3490000	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Fluoranthene	510.000	24	---	27200000	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Indeno(1,2,3-cd)pyrene	140.000	24	---	34900	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Pyrene	570.000	140	---	22100000	µg/kg
BX37-014	748931.293	2082172.471	0.5	2.5	Uranium-235	0.177	---	0.120	8	pCi/g
BX37-015	748957.062	2082197.572	0.0	0.5	Copper	22.000	---	18.060	40900	mg/kg
BX37-015	*748957.062*	*2082197.572*	*0.0*	*0.5*	*Uranium-234*	*4.051*	---	*2.253*	*300*	*pCi/g*
BX37-015	748957.062	2082197.572	0.0	0.5	Uranium-235	0.244	---	0.094	8	pCi/g
BX37-015	748957.062	2082197.572	0.0	0.5	Uranium-238	4.051	---	2.000	351	pCi/g
BX37-015	*748957.062*	*2082197.572*	*0.5*	*2.5*	*Uranium-234*	*5.790*	---	*2.640*	*300*	*pCi/g*
BX37-015	748957.062	2082197.572	0.5	2.5	Uranium-235	0.210	---	0.120	8	pCi/g
BX37-015	748957.062	2082197.572	0.5	2.5	Uranium-238	5.790	---	1.490	351	pCi/g
BX37-016	748922.458	2082207.287	0.0	0.5	Acenaphthene	63.000	31	---	40800000	µg/kg
BX37-016	748922.458	2082207.287	0.0	0.5	Anthracene	110.000	24	---	204000000	µg/kg
BX37-016	748922.458	2082207.287	0.0	0.5	Fluoranthene	400.000	23	---	27200000	µg/kg
BX37-016	748922.458	2082207.287	0.0	0.5	Fluorene	57.000	35	---	40800000	µg/kg
BX37-016	748922.458	2082207.287	0.0	0.5	Pyrene	410.000	140	---	22100000	µg/kg
BX37-016	*748922.458*	*2082207.287*	*0.0*	*0.5*	*Uranium-234*	*5.847*	---	*2.253*	*300*	*pCi/g*
BX37-016	748922.458	2082207.287	0.0	0.5	Uranium-235	0.235	---	0.094	8	pCi/g
BX37-016	748922.458	2082207.287	0.0	0.5	Uranium-238	5.847	---	2.000	351	pCi/g
BX37-017	748948.146	2082232.486	0.0	0.5	Aluminum	18000.000	---	16902.000	228000	mg/kg
BX37-017	748948.146	2082232.486	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BX37-017	748948.146	2082232.486	0.0	0.5	Chromium	21.000	---	16.990	268	mg/kg
BX37-017	748948.146	2082232.486	0.0	0.5	Nickel	20.000	---	14.910	20400	mg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Benzo(a)anthracene	190.000	29	---	34900	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX37-017	748948.146	2082232.486	0.5	2.5	Benzo(a)pyrene	320.000	48	---	3490	µg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Benzo(b)fluoranthene	210.000	34	---	34900	µg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Benzo(k)fluoranthene	240.000	38	---	349000	µg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Chrysene	230.000	33	---	3490000	µg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Fluoranthene	130.000	27	---	27200000	µg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Indeno(1,2,3-cd)pyrene	180.000	27	---	34900	µg/kg
BX37-017	748948.146	2082232.486	0.5	2.5	Pyrene	210.000	160	---	22100000	µg/kg
BX37-017	*748948.146*	*2082232.486*	*0.5*	*2.5*	*Uranium-234*	*3.087*	---	*2.640*	*300*	*pCi/g*
BX37-017	748948.146	2082232.486	0.5	2.5	Uranium-235	0.273	---	0.120	8	pCi/g
BX37-017	748948.146	2082232.486	0.5	2.5	Uranium-238	3.087	---	1.490	351	pCi/g
BX37-018	748913.451	2082242.134	0.0	0.5	Acenaphthene	72.000	33	---	40800000	µg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Anthracene	69.000	26	---	204000000	µg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Beryllium	1.000	---	0.966	921	mg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Fluoranthene	430.000	25	---	27200000	µg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Fluorene	43.000	37	---	40800000	µg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BX37-018	748913.451	2082242.134	0.0	0.5	Pyrene	390.000	140	---	22100000	µg/kg
BX37-018	*748913.451*	*2082242.134*	*0.0*	*0.5*	*Uranium-234*	*2.597*	---	*2.253*	*300*	*pCi/g*
BX37-018	748913.451	2082242.134	0.0	0.5	Uranium-235	0.208	---	0.094	8	pCi/g
BX37-018	748913.451	2082242.134	0.0	0.5	Uranium-238	2.597	---	2.000	351	pCi/g
BX37-018	748913.451	2082242.134	0.5	2.5	Aluminum	44000.000	---	35373.170	228000	mg/kg
BX37-018	**748913.451**	**2082242.134**	**0.5**	**2.5**	**Arsenic**	**23.000**	---	**13.140**	**22.2**	**mg/kg**
BX37-018	748913.451	2082242.134	0.5	2.5	Tetrachloroethene	12.600	6.64	---	615000	µg/kg
BX37-018	*748913.451*	*2082242.134*	*0.5*	*2.5*	*Uranium-234*	*4.224*	---	*2.640*	*300*	*pCi/g*
BX37-018	748913.451	2082242.134	0.5	2.5	Uranium-238	4.224	---	1.490	351	pCi/g
BX37-018	748913.451	2082242.134	0.5	2.5	Vanadium	91.000	---	88.490	7150	mg/kg
BX37-019	*748939.276*	*2082267.306*	*0.0*	*0.5*	*Uranium-234*	*2.332*	---	*2.253*	*300*	*pCi/g*
BX37-019	748939.276	2082267.306	0.0	0.5	Uranium-235	0.185	---	0.094	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BX37-019	748939.276	2082267.306	0.0	0.5	Uranium-238	2.332	---	2.000	351	pCi/g
BX37-019	*748939.276*	*2082267.306*	*0.5*	*2.5*	*Uranium-234*	*3.278*	---	*2.640*	*300*	*pCi/g*
BX37-019	748939.276	2082267.306	0.5	2.5	Uranium-235	0.147	---	0.120	8	pCi/g
BX37-019	748939.276	2082267.306	0.5	2.5	Uranium-238	3.278	---	1.490	351	pCi/g
BX37-020	748909.235	2082263.861	0.0	0.5	Copper	29.000	---	18.060	40900	mg/kg
BX37-020	*748909.235*	*2082263.861*	*0.0*	*0.5*	*Uranium-234*	*4.053*	---	*2.253*	*300*	*pCi/g*
BX37-020	748909.235	2082263.861	0.0	0.5	Uranium-235	0.255	---	0.094	8	pCi/g
BX37-020	748909.235	2082263.861	0.0	0.5	Uranium-238	4.053	---	2.000	351	pCi/g
BX37-020	748909.235	2082263.861	0.0	0.5	Zinc	77.000	---	73.760	307000	mg/kg
BX37-020	748909.235	2082263.861	0.5	2.5	Tetrachloroethene	435.000	27.7	---	615000	µg/kg
BX37-021	748930.346	2082302.225	0.0	0.5	Aluminum	22000.000	---	16902.000	228000	mg/kg
BX37-021	748930.346	2082302.225	0.0	0.5	Beryllium	1.100	---	0.966	921	mg/kg
BX37-021	748930.346	2082302.225	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BX37-021	*748930.346*	*2082302.225*	*0.0*	*0.5*	*Uranium-234*	*3.541*	---	*2.253*	*300*	*pCi/g*
BX37-021	748930.346	2082302.225	0.0	0.5	Uranium-235	0.137	---	0.094	8	pCi/g
BX37-021	748930.346	2082302.225	0.0	0.5	Uranium-238	3.541	---	2.000	351	pCi/g
BX37-021	*748930.346*	*2082302.225*	*0.5*	*2.5*	*Uranium-234*	*2.818*	---	*2.640*	*300*	*pCi/g*
BX37-021	748930.346	2082302.225	0.5	2.5	Uranium-235	0.185	---	0.120	8	pCi/g
BX37-021	748930.346	2082302.225	0.5	2.5	Uranium-238	2.818	---	1.490	351	pCi/g
BY35-006	748437.206	2082343.721	0.0	0.5	Chromium	38.000	---	16.990	268	mg/kg
BY35-006	748437.206	2082343.721	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BY35-006	*748437.206*	*2082343.721*	*0.0*	*0.5*	*Uranium-234*	*3.940*	---	*2.253*	*300*	*pCi/g*
BY35-006	748437.206	2082343.721	0.0	0.5	Uranium-235	0.208	---	0.094	8	pCi/g
BY35-006	748437.206	2082343.721	0.0	0.5	Uranium-238	3.940	---	2.000	351	pCi/g
BY35-006	748437.206	2082343.721	0.0	0.5	Zinc	81.000	---	73.760	307000	mg/kg
BY35-006	*748437.206*	*2082343.721*	*0.5*	*1.0*	*Uranium-234*	*4.035*	---	*2.640*	*300*	*pCi/g*
BY35-006	748437.206	2082343.721	0.5	1.0	Uranium-235	0.223	---	0.120	8	pCi/g
BY35-006	748437.206	2082343.721	0.5	1.0	Uranium-238	4.035	---	1.490	351	pCi/g
BY35-007	748462.969	2082368.827	0.0	0.5	Copper	40.000	---	18.060	40900	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-007	748462.969	2082368.827	0.0	0.5	Iron	27000.000	---	18037.000	307000	mg/kg
BY35-007	748462.969	2082368.827	0.0	0.5	Manganese	550.000	---	365.080	3480	mg/kg
BY35-007	*748462.969*	*2082368.827*	*0.0*	*0.5*	*Uranium-234*	*3.485*	---	*2.253*	*300*	*pCi/g*
BY35-007	748462.969	2082368.827	0.0	0.5	Uranium-235	0.194	---	0.094	8	pCi/g
BY35-007	748462.969	2082368.827	0.0	0.5	Uranium-238	3.485	---	2.000	351	pCi/g
BY35-007	748462.969	2082368.827	0.0	0.5	Zinc	82.000	---	73.760	307000	mg/kg
BY35-007	748462.969	2082368.827	0.5	2.0	Uranium-238	2.051	---	1.490	351	pCi/g
BY35-008	748514.426	2082419.086	0.0	0.5	4,4'-DDD	3.500	3.4	---	143000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Acenaphthene	290.000	32	---	40800000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Anthracene	320.000	25	---	204000000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Aroclor-1260	25.000	6.3	---	12400	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Barium	160.000	---	141.260	26400	mg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Benzo(a)anthracene	1000.000	26	---	34900	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Benzo(a)pyrene	1100.000	42	---	3490	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Benzo(b)fluoranthene	890.000	30	---	34900	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Benzo(k)fluoranthene	860.000	33	---	349000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Beryllium	1.000	---	0.966	921	mg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	bis(2-Ethylhexyl)phthalate	480.000	75	---	1970000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Chromium	21.000	---	16.990	268	mg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Chrysene	1300.000	29	---	3490000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Dibenzofuran	85.000	37	---	2950000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Fluoranthene	2500.000	24	---	27200000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Fluorene	210.000	35	---	40800000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Indeno(1,2,3-cd)pyrene	610.000	24	---	34900	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Pyrene	2400.000	140	---	22100000	µg/kg
BY35-008	748514.426	2082419.086	0.0	0.5	Zinc	150.000	---	73.760	307000	mg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	1,1,1-Trichloroethane	6.400	1.1	---	79700000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	2-Methylnaphthalene	1400.000	34	---	20400000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	4,4'-DDD	4.200	3.5	---	143000	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-008	748514.426	2082419.086	0.5	2.5	4-Methylphenol	95.000	58	---	3690000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Acenaphthene	7900.000	660	---	40800000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Anthracene	6900.000	510	---	204000000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Aroclor-1260	27.000	6.5	---	12400	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Benzo(a)anthracene	16000.000	530	---	34900	µg/kg
BY35-008	**748514.426**	**2082419.086**	**0.5**	**2.5**	**Benzo(a)pyrene**	**15000.000**	**860**	**---**	**3490**	**µg/kg**
BY35-008	748514.426	2082419.086	0.5	2.5	Benzo(b)fluoranthene	11000.000	620	---	34900	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Benzo(k)fluoranthene	14000.000	680	---	349000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	bis(2-Ethylhexyl)phthalate	240.000	77	---	1970000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Chromium	130.000	---	68.270	268	mg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Chrysene	19000.000	590	---	3490000	µg/kg
BY35-008	**748514.426**	**2082419.086**	**0.5**	**2.5**	**Dibenz(a,h)anthracene**	**3600.000**	**26**	**---**	**3490**	**µg/kg**
BY35-008	748514.426	2082419.086	0.5	2.5	Dibenzofuran	3300.000	38	---	2950000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Fluoranthene	40000.000	480	---	27200000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Fluorene	6300.000	730	---	40800000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Indeno(1,2,3-cd)pyrene	6900.000	480	---	34900	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Naphthalene	23.000	0.95	---	3090000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Pyrene	46000.000	2900	---	22100000	µg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Silver	110.000	---	24.540	5110	mg/kg
BY35-008	748514.426	2082419.086	0.5	2.5	Tetrachloroethene	9.900	1.1	---	615000	µg/kg
BY35-010	748431.342	2082378.524	0.0	0.5	Copper	28.000	---	18.060	40900	mg/kg
BY35-010	748431.342	2082378.524	0.0	0.5	Manganese	450.000	---	365.080	3480	mg/kg
BY35-010	*748431.342*	*2082378.524*	*0.0*	*0.5*	*Uranium-234*	*3.918*	*---*	*2.253*	*300*	*pCi/g*
BY35-010	748431.342	2082378.524	0.0	0.5	Uranium-235	0.243	---	0.094	8	pCi/g
BY35-010	748431.342	2082378.524	0.0	0.5	Uranium-238	3.918	---	2.000	351	pCi/g
BY35-010	748431.342	2082378.524	0.5	1.5	Copper	39.000	---	38.210	40900	mg/kg
BY35-010	748431.342	2082378.524	0.5	1.5	Uranium-235	0.138	---	0.120	8	pCi/g
BY35-011	748454.076	2082403.657	0.0	0.5	Cadmium	2.000	---	1.612	962	mg/kg
BY35-011	748454.076	2082403.657	0.0	0.5	Uranium-235	0.111	---	0.094	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-011	748454.076	2082403.657	0.0	0.5	Zinc	84.000	---	73.760	307000	mg/kg
BY35-011	748454.076	2082403.657	0.5	1.0	Cadmium	2.700	---	1.700	962	mg/kg
BY35-011	748454.076	2082403.657	0.5	1.0	Toluene	5.850	5.42	---	31300000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Acenaphthene	190.000	38	---	40800000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Anthracene	210.000	30	---	204000000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Antimony	0.520	---	0.470	409	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Aroclor-1260	280.000	7.6	---	12400	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Benzo(a)anthracene	560.000	31	---	34900	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Benzo(a)pyrene	580.000	50	---	3490	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Benzo(b)fluoranthene	440.000	36	---	34900	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Benzo(k)fluoranthene	540.000	40	---	349000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Beryllium	2.400	---	0.966	921	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	bis(2-Ethylhexyl)phthalate	200.000	90	---	1970000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Cadmium	2.100	---	1.612	962	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Chromium	29.000	---	16.990	268	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Chrysene	690.000	35	---	3490000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Copper	36.000	---	18.060	40900	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Dibenz(a,h)anthracene	99.000	31	---	3490	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Dibenzofuran	64.000	45	---	2950000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Fluoranthene	1700.000	28	---	27200000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Fluorene	150.000	42	---	40800000	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Indeno(1,2,3-cd)pyrene	310.000	28	---	34900	µg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Lead	280.000	---	54.620	1000	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BY35-012	748505.523	2082454.023	0.0	0.5	Pyrene	980.000	170	---	22100000	µg/kg
BY35-012	*748505.523*	*2082454.023*	*0.0*	*0.5*	*Uranium-234*	*3.368*	---	*2.253*	*300*	*pCi/g*
BY35-012	748505.523	2082454.023	0.0	0.5	Uranium-235	0.439	---	0.094	8	pCi/g
BY35-012	748505.523	2082454.023	0.0	0.5	Uranium-238	3.368	---	2.000	351	pCi/g
BY35-012	748505.523	2082454.023	0.0	0.5	Zinc	630.000	---	73.760	307000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-012	748505.523	2082454.023	0.5	2.5	2-Methylnaphthalene	62.000	41	---	20400000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Acenaphthene	540.000	39	---	40800000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Anthracene	580.000	30	---	204000000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Aroclor-1260	87.000	7.7	---	12400	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Benzo(a)anthracene	1500.000	31	---	34900	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Benzo(a)pyrene	1600.000	51	---	3490	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Benzo(b)fluoranthene	1400.000	37	---	34900	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Benzo(k)fluoranthene	1400.000	41	---	349000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Chrysene	1800.000	35	---	3490000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Dibenz(a,h)anthracene	400.000	31	---	3490	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Dibenzofuran	210.000	46	---	2950000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Fluoranthene	4000.000	29	---	27200000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Fluorene	470.000	43	---	40800000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Indeno(1,2,3-cd)pyrene	850.000	29	---	34900	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Pyrene	3700.000	170	---	22100000	µg/kg
BY35-012	748505.523	2082454.023	0.5	2.5	Silver	98.000	---	24.540	5110	mg/kg
BY35-012	*748505.523*	*2082454.023*	*0.5*	*2.5*	*Uranium-234*	*4.802*	---	*2.640*	*300*	*pCi/g*
BY35-012	748505.523	2082454.023	0.5	2.5	Uranium-238	4.802	---	1.490	351	pCi/g
BY35-013	748531.325	2082479.180	0.0	0.5	Plutonium-239/240	0.175	---	0.066	50	pCi/g
BY35-013	748531.325	2082479.180	0.5	2.5	Acetone	27.000	4.9	---	102000000	µg/kg
BY35-013	748531.325	2082479.180	0.5	2.5	Americium-241	0.138	---	0.020	76	pCi/g
BY35-013	748531.325	2082479.180	0.5	2.5	Plutonium-239/240	0.284	---	0.020	50	pCi/g
BY35-014	*748557.084*	*2082504.328*	*0.0*	*0.5*	*Uranium-234*	*5.596*	---	*2.253*	*300*	*pCi/g*
BY35-014	748557.084	2082504.328	0.0	0.5	Uranium-235	0.144	---	0.094	8	pCi/g
BY35-014	748557.084	2082504.328	0.0	0.5	Uranium-238	5.596	---	2.000	351	pCi/g
BY35-014	748557.084	2082504.328	0.5	1.5	Naphthalene	5.910	5.86	---	3090000	µg/kg
BY35-014	748557.084	2082504.328	0.5	1.5	Uranium, Total	4.800	---	3.040	2750	mg/kg
BY35-014	*748557.084*	*2082504.328*	*0.5*	*1.5*	*Uranium-234*	*2.920*	---	*2.640*	*300*	*pCi/g*
BY35-014	748557.084	2082504.328	0.5	1.5	Uranium-238	2.920	---	1.490	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-015	748419.226	2082416.680	0.0	0.5	Aluminum	25000.000	---	16902.000	228000	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Beryllium	1.100	---	0.966	921	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Chromium	28.000	---	16.990	268	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Copper	20.000	---	18.060	40900	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Iron	20000.000	---	18037.000	307000	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Lithium	18.000	---	11.550	20400	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Nickel	19.000	---	14.910	20400	mg/kg
BY35-015	748419.226	2082416.680	0.0	0.5	Uranium-235	0.140	---	0.094	8	pCi/g
BY35-015	748419.226	2082416.680	0.0	0.5	Zinc	190.000	---	73.760	307000	mg/kg
BY35-016	748440.877	2082438.771	0.0	0.5	Chromium	23.000	---	16.990	268	mg/kg
BY35-016	748440.877	2082438.771	0.0	0.5	Nickel	21.000	---	14.910	20400	mg/kg
BY35-016	748440.877	2082438.771	0.0	0.5	Zinc	240.000	---	73.760	307000	mg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	4,4'-DDD	10.000	3.3	---	143000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	4,4'-DDE	7.200	3.1	---	101000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	4,4'-DDT	9.100	5.4	---	100000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Acenaphthene	90.000	32	---	40800000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	alpha-BHC	7.900	4.4	---	5240	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Anthracene	100.000	25	---	204000000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Aroclor-1260	13.000	6.4	---	12400	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Benzo(a)anthracene	260.000	26	---	34900	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Benzo(a)pyrene	280.000	42	---	3490	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Benzo(b)fluoranthene	220.000	30	---	34900	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Benzo(k)fluoranthene	270.000	33	---	349000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Chrysene	320.000	29	---	3490000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Dieldrin	8.200	3.1	---	1720	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Endosulfan I	7.400	3.2	---	4420000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Endosulfan II	9.900	3.5	---	4420000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Endosulfan sulfate	11.000	3.2	---	4420000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Endrin	17.000	3.8	---	221000	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-017	748540.182	2082444.037	0.0	0.5	Fluoranthene	700.000	24	---	27200000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Fluorene	63.000	36	---	40800000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	gamma-BHC	8.300	4.4	---	25500	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Heptachlor epoxide	7.200	3.2	---	3030	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Indeno(1,2,3-cd)pyrene	160.000	24	---	34900	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Methoxychlor	12.000	6.7	---	5110000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Phenol	130.000	37	---	613000000	µg/kg
BY35-017	748540.182	2082444.037	0.0	0.5	Pyrene	670.000	140	---	22100000	µg/kg
BY35-017	*748540.182*	*2082444.037*	*0.0*	*0.5*	*Uranium-234*	*2.857*	---	*2.253*	*300*	*pCi/g*
BY35-017	748540.182	2082444.037	0.0	0.5	Uranium-238	2.857	---	2.000	351	pCi/g
BY35-017	748540.182	2082444.037	0.5	1.5	4,4'-DDD	7.600	3.4	---	143000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	4,4'-DDE	4.800	3.2	---	101000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	4,4'-DDT	6.800	5.4	---	100000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Acenaphthene	56.000	33	---	40800000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	alpha-BHC	6.800	4.5	---	5240	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Anthracene	59.000	25	---	204000000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Aroclor-1260	16.000	6.4	---	12400	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Benzo(a)anthracene	240.000	26	---	34900	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Benzo(a)pyrene	270.000	42	---	3490	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Benzo(b)fluoranthene	230.000	30	---	34900	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Benzo(k)fluoranthene	240.000	34	---	349000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Chrysene	320.000	29	---	3490000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Dieldrin	6.400	3.2	---	1720	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Endosulfan I	3.600	3.3	---	4420000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Endosulfan II	5.100	3.5	---	4420000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Endosulfan sulfate	5.300	3.3	---	4420000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Endrin	7.500	3.8	---	221000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Fluoranthene	550.000	24	---	27200000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Heptachlor epoxide	4.200	3.3	---	3030	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-017	748540.182	2082444.037	0.5	1.5	Indeno(1,2,3-cd)pyrene	180.000	24	---	34900	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Phenol	98.000	37	---	613000000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Pyrene	600.000	140	---	22100000	µg/kg
BY35-017	748540.182	2082444.037	0.5	1.5	Uranium-235	0.219	---	0.120	8	pCi/g
BY35-017	748540.182	2082444.037	0.5	1.5	Uranium-238	1.649	---	1.490	351	pCi/g
BY35-017-01	748496.637	2082489.230	2.5	4.5	Aluminum	46000.000	---	35373.170	228000	mg/kg
BY35-017-01	748496.637	2082489.230	2.5	4.5	Uranium-235	0.143	---	0.120	8	pCi/g
BY35-017-01	748496.637	2082489.230	6.5	8.5	Uranium-235	0.139	---	0.120	8	pCi/g
BY35-018	748523.313	2082514.205	0.0	0.5	Mercury	0.550	---	0.134	25200	mg/kg
BY35-018	748523.313	2082514.205	0.0	0.5	Nickel	29.000	---	14.910	20400	mg/kg
BY35-018	748523.313	2082514.205	0.0	0.5	Zinc	83.000	---	73.760	307000	mg/kg
BY35-018	748523.313	2082514.205	2.5	4.5	Uranium-235	0.129	---	0.120	8	pCi/g
BY35-018	748523.313	2082514.205	4.5	6.5	Manganese	1100.000	---	901.620	3480	mg/kg
BY35-018	*748523.313*	*2082514.205*	*4.5*	*6.5*	*Uranium-234*	*3.523*	---	*2.640*	*300*	*pCi/g*
BY35-018	748523.313	2082514.205	4.5	6.5	Uranium-235	0.214	---	0.120	8	pCi/g
BY35-018	748523.313	2082514.205	4.5	6.5	Uranium-238	3.523	---	1.490	351	pCi/g
BY35-018	*748523.313*	*2082514.205*	*6.5*	*8.5*	*Uranium-234*	*3.456*	---	*2.640*	*300*	*pCi/g*
BY35-018	748523.313	2082514.205	6.5	8.5	Uranium-238	3.456	---	1.490	351	pCi/g
BY35-018	*748523.313*	*2082514.205*	*8.5*	*10.5*	*Uranium-234*	*3.803*	---	*2.640*	*300*	*pCi/g*
BY35-018	748523.313	2082514.205	8.5	10.5	Uranium-235	0.218	---	0.120	8	pCi/g
BY35-018	748523.313	2082514.205	8.5	10.5	Uranium-238	3.803	---	1.490	351	pCi/g
BY35-019	748384.708	2082423.194	0.0	0.5	Nickel	15.000	---	14.910	20400	mg/kg
BY35-019	*748384.708*	*2082423.194*	*0.0*	*0.5*	*Uranium-234*	*3.883*	---	*2.253*	*300*	*pCi/g*
BY35-019	748384.708	2082423.194	0.0	0.5	Uranium-235	0.261	---	0.094	8	pCi/g
BY35-019	748384.708	2082423.194	0.0	0.5	Uranium-238	3.883	---	2.000	351	pCi/g
BY35-019	*748384.708*	*2082423.194*	*0.5*	*2.5*	*Uranium-234*	*3.518*	---	*2.640*	*300*	*pCi/g*
BY35-019	748384.708	2082423.194	0.5	2.5	Uranium-238	3.518	---	1.490	351	pCi/g
BY35-020	748410.527	2082448.334	0.0	0.5	Antimony	0.650	---	0.470	409	mg/kg
BY35-020	748410.527	2082448.334	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-020	*748410.527*	*2082448.334*	*0.5*	*2.5*	*Uranium-234*	*3.998*	---	*2.640*	*300*	*pCi/g*
BY35-020	748410.527	2082448.334	0.5	2.5	Uranium-235	0.207	---	0.120	8	pCi/g
BY35-020	748410.527	2082448.334	0.5	2.5	Uranium-238	3.998	---	1.490	351	pCi/g
BY35-020	*748410.527*	*2082448.334*	*2.5*	*4.5*	*Uranium-234*	*2.957*	---	*2.640*	*300*	*pCi/g*
BY35-020	748410.527	2082448.334	2.5	4.5	Uranium-235	0.164	---	0.120	8	pCi/g
BY35-020	748410.527	2082448.334	2.5	4.5	Uranium-238	2.957	---	1.490	351	pCi/g
BY35-020	*748410.527*	*2082448.334*	*4.5*	*6.5*	*Uranium-234*	*3.519*	---	*2.640*	*300*	*pCi/g*
BY35-020	748410.527	2082448.334	4.5	6.5	Uranium-235	0.224	---	0.120	8	pCi/g
BY35-020	748410.527	2082448.334	4.5	6.5	Uranium-238	3.519	---	1.490	351	pCi/g
BY35-020	*748410.527*	*2082448.334*	*6.5*	*8.5*	*Uranium-234*	*4.095*	---	*2.640*	*300*	*pCi/g*
BY35-020	748410.527	2082448.334	6.5	8.5	Uranium-235	0.189	---	0.120	8	pCi/g
BY35-020	748410.527	2082448.334	6.5	8.5	Uranium-238	4.095	---	1.490	351	pCi/g
BY35-020	*748410.527*	*2082448.334*	*8.5*	*10.5*	*Uranium-234*	*3.964*	---	*2.640*	*300*	*pCi/g*
BY35-020	748410.527	2082448.334	8.5	10.5	Uranium-235	0.216	---	0.120	8	pCi/g
BY35-020	748410.527	2082448.334	8.5	10.5	Uranium-238	3.964	---	1.490	351	pCi/g
BY35-021	748436.327	2082473.584	0.0	0.5	Copper	21.000	---	18.060	40900	mg/kg
BY35-021	*748436.327*	*2082473.584*	*0.0*	*0.5*	*Uranium-234*	*3.609*	---	*2.253*	*300*	*pCi/g*
BY35-021	748436.327	2082473.584	0.0	0.5	Uranium-235	0.240	---	0.094	8	pCi/g
BY35-021	748436.327	2082473.584	0.0	0.5	Uranium-238	3.609	---	2.000	351	pCi/g
BY35-021	748436.327	2082473.584	0.0	0.5	Zinc	100.000	---	73.760	307000	mg/kg
BY35-022	*748462.048*	*2082498.673*	*0.0*	*0.5*	*Uranium-234*	*3.732*	---	*2.253*	*300*	*pCi/g*
BY35-022	748462.048	2082498.673	0.0	0.5	Uranium-235	0.224	---	0.094	8	pCi/g
BY35-022	748462.048	2082498.673	0.0	0.5	Uranium-238	3.732	---	2.000	351	pCi/g
BY35-022	*748462.048*	*2082498.673*	*0.5*	*2.5*	*Uranium-234*	*4.526*	---	*2.640*	*300*	*pCi/g*
BY35-022	748462.048	2082498.673	0.5	2.5	Uranium-235	0.219	---	0.120	8	pCi/g
BY35-022	748462.048	2082498.673	0.5	2.5	Uranium-238	4.526	---	1.490	351	pCi/g
BY35-023	748379.300	2082453.770	0.0	0.5	Aluminum	17000.000	---	16902.000	228000	mg/kg
BY35-023	748379.300	2082453.770	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BY35-023	748379.300	2082453.770	0.0	0.5	Nickel	21.000	---	14.910	20400	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY35-023	748379.300	2082453.770	0.5	2.5	Aluminum	61000.000	---	35373.170	228000	mg/kg
BY35-023	748379.300	2082453.770	0.5	2.5	Arsenic	20.000	---	13.140	22.2	mg/kg
BY35-023	748379.300	2082453.770	0.5	2.5	Vanadium	100.000	---	88.490	7150	mg/kg
BY35-023	748379.300	2082453.770	2.5	4.5	Aluminum	52000.000	---	35373.170	228000	mg/kg
BY35-023	748379.300	2082453.770	2.5	4.5	Arsenic	15.000	---	13.140	22.2	mg/kg
BY35-024	748405.025	2082480.264	0.0	0.5	Nickel	20.000	---	14.910	20400	mg/kg
BY35-024	748405.025	2082480.264	0.0	0.5	Uranium-235	0.139	---	0.094	8	pCi/g
BY35-025	748427.507	2082508.434	0.0	0.5	Antimony	2.100	---	0.470	409	mg/kg
BY35-025	748427.507	2082508.434	0.0	0.5	Chromium	22.000	---	16.990	268	mg/kg
BY35-025	748427.507	2082508.434	0.0	0.5	Cobalt	14.000	---	10.910	1550	mg/kg
BY35-025	748427.507	2082508.434	0.0	0.5	Nickel	280.000	---	14.910	20400	mg/kg
BY35-025	*748427.507*	*2082508.434*	*0.0*	*0.5*	*Uranium-234*	*3.834*	---	*2.253*	*300*	*pCi/g*
BY35-025	748427.507	2082508.434	0.0	0.5	Uranium-235	0.180	---	0.094	8	pCi/g
BY35-025	748427.507	2082508.434	0.0	0.5	Uranium-238	3.834	---	2.000	351	pCi/g
BY35-026	748453.168	2082533.498	0.0	0.5	Nickel	45.000	---	14.910	20400	mg/kg
BY35-026	748453.168	2082533.498	0.0	0.5	Uranium-235	0.131	---	0.094	8	pCi/g
BY35-026	748453.168	2082533.498	0.0	0.5	Uranium-238	2.018	---	2.000	351	pCi/g
BY35-026	748453.168	2082533.498	0.0	0.5	Zinc	77.000	---	73.760	307000	mg/kg
BY35-027	*748392.771*	*2082518.088*	*0.5*	*2.5*	*Uranium-234*	*4.042*	---	*2.640*	*300*	*pCi/g*
BY35-027	748392.771	2082518.088	0.5	2.5	Uranium-235	0.166	---	0.120	8	pCi/g
BY35-027	748392.771	2082518.088	0.5	2.5	Uranium-238	4.042	---	1.490	351	pCi/g
BY35-027	748392.771	2082518.088	4.5	6.5	Uranium-235	0.128	---	0.120	8	pCi/g
BY35-027	748392.771	2082518.088	8.5	10.5	Barium	420.000	---	289.380	26400	mg/kg
BY35-027	748392.771	2082518.088	8.5	10.5	Manganese	1400.000	---	901.620	3480	mg/kg
BY36-019	748635.407	2082464.994	0.0	0.5	Copper	75.000	---	18.060	40900	mg/kg
BY36-019	*748635.407*	*2082464.994*	*0.0*	*0.5*	*Uranium-234*	*3.890*	---	*2.253*	*300*	*pCi/g*
BY36-019	748635.407	2082464.994	0.0	0.5	Uranium-235	0.287	---	0.094	8	pCi/g
BY36-019	748635.407	2082464.994	0.0	0.5	Uranium-238	3.890	---	2.000	351	pCi/g
BY36-019	748635.407	2082464.994	0.5	2.5	Uranium-238	2.113	---	1.490	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY36-020	*748661.126*	*2082475.072*	*0.0*	*0.5*	*Uranium-234*	*4.780*	---	*2.253*	*300*	*pCi/g*
BY36-020	748661.126	2082475.072	0.0	0.5	Uranium-235	0.123	---	0.094	8	pCi/g
BY36-020	748661.126	2082475.072	0.0	0.5	Uranium-238	4.780	---	2.000	351	pCi/g
BY36-020	*748661.126*	*2082475.072*	*0.5*	*2.5*	*Uranium-234*	*4.774*	---	*2.640*	*300*	*pCi/g*
BY36-020	748661.126	2082475.072	0.5	2.5	Uranium-235	0.230	---	0.120	8	pCi/g
BY36-020	748661.126	2082475.072	0.5	2.5	Uranium-238	4.774	---	1.490	351	pCi/g
BY36-021	748708.422	2082541.924	0.0	0.5	Aluminum	21000.000	---	16902.000	228000	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Antimony	0.490	---	0.470	409	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Chromium	69.000	---	16.990	268	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Copper	37.000	---	18.060	40900	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Iron	45000.000	---	18037.000	307000	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Lead	590.000	---	54.620	1000	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Lithium	14.000	---	11.550	20400	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BY36-021	748708.422	2082541.924	0.0	0.5	Uranium, Total	8.000	---	5.980	2750	mg/kg
BY36-021	*748708.422*	*2082541.924*	*0.0*	*0.5*	*Uranium-234*	*4.631*	---	*2.253*	*300*	*pCi/g*
BY36-021	748708.422	2082541.924	0.0	0.5	Uranium-235	0.252	---	0.094	8	pCi/g
BY36-021	748708.422	2082541.924	0.0	0.5	Uranium-238	4.631	---	2.000	351	pCi/g
BY36-021	748708.422	2082541.924	0.0	0.5	Zinc	93.000	---	73.760	307000	mg/kg
BY36-021	748708.422	2082541.924	0.5	2.5	Lead	49.000	---	24.970	1000	mg/kg
BY36-021	*748708.422*	*2082541.924*	*0.5*	*2.5*	*Uranium-234*	*6.278*	---	*2.640*	*300*	*pCi/g*
BY36-021	748708.422	2082541.924	0.5	2.5	Uranium-235	0.200	---	0.120	8	pCi/g
BY36-021	748708.422	2082541.924	0.5	2.5	Uranium-238	6.278	---	1.490	351	pCi/g
BY36-022	748600.633	2082459.708	0.0	0.5	Antimony	0.540	---	0.470	409	mg/kg
BY36-022	748600.633	2082459.708	0.0	0.5	Beryllium	2.100	---	0.966	921	mg/kg
BY36-022	748600.633	2082459.708	0.0	0.5	Chromium	26.000	---	16.990	268	mg/kg
BY36-022	748600.633	2082459.708	0.0	0.5	Copper	21.000	---	18.060	40900	mg/kg
BY36-022	748600.633	2082459.708	0.0	0.5	Selenium	1.400	---	1.224	5110	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY36-022	748600.633	2082459.708	0.0	0.5	Uranium-238	2.207	---	2.000	351	pCi/g
BY36-022	748600.633	2082459.708	0.0	0.5	Zinc	130.000	---	73.760	307000	mg/kg
BY36-022	748600.633	2082459.708	0.5	2.5	1,1,1-Trichloroethane	13.700	5.82	---	79700000	µg/kg
BY36-022	748600.633	2082459.708	0.5	2.5	Copper	110.000	---	38.210	40900	mg/kg
BY36-022	748600.633	2082459.708	0.5	2.5	Naphthalene	11.000	5.82	---	3090000	µg/kg
BY36-022	*748600.633*	*2082459.708*	*0.5*	*2.5*	*Uranium-234*	*5.223*	---	*2.640*	*300*	*pCi/g*
BY36-022	748600.633	2082459.708	0.5	2.5	Uranium-235	0.329	---	0.120	8	pCi/g
BY36-022	748600.633	2082459.708	0.5	2.5	Uranium-238	5.223	---	1.490	351	pCi/g
BY36-023	748626.390	2082484.841	0.0	0.5	Aluminum	30000.000	---	16902.000	228000	mg/kg
BY36-023	748626.390	2082484.841	0.0	0.5	Beryllium	1.400	---	0.966	921	mg/kg
BY36-023	748626.390	2082484.841	0.0	0.5	Chromium	24.000	---	16.990	268	mg/kg
BY36-023	748626.390	2082484.841	0.0	0.5	Lithium	18.000	---	11.550	20400	mg/kg
BY36-023	748626.390	2082484.841	0.0	0.5	Mercury	0.210	---	0.134	25200	mg/kg
BY36-023	748626.390	2082484.841	0.0	0.5	Nickel	19.000	---	14.910	20400	mg/kg
BY36-023	748626.390	2082484.841	0.0	0.5	Strontium	78.000	---	48.940	613000	mg/kg
BY36-023	*748626.390*	*2082484.841*	*0.0*	*0.5*	*Uranium-234*	*4.720*	---	*2.253*	*300*	*pCi/g*
BY36-023	748626.390	2082484.841	0.0	0.5	Uranium-235	0.290	---	0.094	8	pCi/g
BY36-023	748626.390	2082484.841	0.0	0.5	Uranium-238	4.720	---	2.000	351	pCi/g
BY36-023	748626.390	2082484.841	0.0	0.5	Vanadium	46.000	---	45.590	7150	mg/kg
BY36-023	748626.390	2082484.841	0.5	2.5	Naphthalene	82.600	5.61	---	3090000	µg/kg
BY36-023	748626.390	2082484.841	0.5	2.5	Tetrachloroethene	5.620	5.61	---	615000	µg/kg
BY36-023	*748626.390*	*2082484.841*	*0.5*	*2.5*	*Uranium-234*	*3.709*	---	*2.640*	*300*	*pCi/g*
BY36-023	748626.390	2082484.841	0.5	2.5	Uranium-235	0.212	---	0.120	8	pCi/g
BY36-023	748626.390	2082484.841	0.5	2.5	Uranium-238	3.709	---	1.490	351	pCi/g
BY36-024	*748645.052*	*2082506.089*	*0.5*	*2.5*	*Uranium-234*	*4.497*	---	*2.640*	*300*	*pCi/g*
BY36-024	748645.052	2082506.089	0.5	2.5	Uranium-235	0.230	---	0.120	8	pCi/g
BY36-024	748645.052	2082506.089	0.5	2.5	Uranium-238	4.497	---	1.490	351	pCi/g
BY36-025	748681.514	2082539.991	0.0	0.5	Copper	41.000	---	18.060	40900	mg/kg
BY36-025	*748681.514*	*2082539.991*	*0.0*	*0.5*	*Uranium-234*	*2.841*	---	*2.253*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY36-025	748681.514	2082539.991	0.0	0.5	Uranium-235	0.216	---	0.094	8	pCi/g
BY36-025	748681.514	2082539.991	0.0	0.5	Uranium-238	2.841	---	2.000	351	pCi/g
BY36-025	748681.514	2082539.991	0.0	0.5	Zinc	80.000	---	73.760	307000	mg/kg
BY36-025	748681.514	2082539.991	0.5	2.5	Uranium-235	0.123	---	0.120	8	pCi/g
BY36-026	748566.461	2082476.484	0.0	0.5	Acenaphthene	99.000	35	---	40800000	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Aluminum	25000.000	---	16902.000	228000	mg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Anthracene	99.000	27	---	204000000	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Benzo(a)anthracene	470.000	28	---	34900	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Benzo(a)pyrene	480.000	46	---	3490	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Benzo(k)fluoranthene	70.000	37	---	349000	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Chromium	19.000	---	16.990	268	mg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Chrysene	580.000	32	---	3490000	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Fluoranthene	940.000	26	---	27200000	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Fluorene	67.000	39	---	40800000	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Indeno(1,2,3-cd)pyrene	280.000	26	---	34900	µg/kg
BY36-026	748566.461	2082476.484	0.0	0.5	Pyrene	1100.000	150	---	22100000	µg/kg
BY36-026	748566.461	2082476.484	0.5	2.5	Benzo(a)anthracene	57.000	26	---	34900	µg/kg
BY36-026	748566.461	2082476.484	0.5	2.5	Chrysene	88.000	29	---	3490000	µg/kg
BY36-026	748566.461	2082476.484	0.5	2.5	Pyrene	150.000	140	---	22100000	µg/kg
BY36-027	748591.754	2082494.586	0.0	0.5	Uranium-235	0.300	---	0.094	8	pCi/g
BY36-027	748591.754	2082494.586	0.5	1.5	1,1-Dichloroethene	7.980	5.77	---	17000	µg/kg
BY36-027	748591.754	2082494.586	0.5	1.5	Aluminum	44000.000	---	35373.170	228000	mg/kg
BY36-027	748591.754	2082494.586	0.5	1.5	Naphthalene	10.200	5.77	---	3090000	µg/kg
BY36-027	748591.754	2082494.586	0.5	1.5	Uranium, Total	12.000	---	3.040	2750	mg/kg
BY36-027	*748591.754*	*2082494.586*	*0.5*	*1.5*	*Uranium-234*	*7.264*	---	*2.640*	*300*	*pCi/g*
BY36-027	748591.754	2082494.586	0.5	1.5	Uranium-235	0.340	---	0.120	8	pCi/g
BY36-027	748591.754	2082494.586	0.5	1.5	Uranium-238	7.264	---	1.490	351	pCi/g
BY36-027	748591.754	2082494.586	0.5	1.5	Xylene	24.700	11.5	---	2040000	µg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY36-028	748617.479	2082519.773	0.0	0.5	Aluminum	20000.000	---	16902.000	228000	mg/kg
BY36-028	748617.479	2082519.773	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BY36-028	748617.479	2082519.773	0.0	0.5	Chromium	22.000	---	16.990	268	mg/kg
BY36-028	748617.479	2082519.773	0.0	0.5	Copper	39.000	---	18.060	40900	mg/kg
BY36-028	748617.479	2082519.773	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BY36-028	748617.479	2082519.773	0.0	0.5	Uranium, Total	6.600	---	5.980	2750	mg/kg
BY36-028	*748617.479*	*2082519.773*	*0.0*	*0.5*	*Uranium-234*	*6.507*	---	*2.253*	*300*	*pCi/g*
BY36-028	748617.479	2082519.773	0.0	0.5	Uranium-235	0.310	---	0.094	8	pCi/g
BY36-028	748617.479	2082519.773	0.0	0.5	Uranium-238	6.507	---	2.000	351	pCi/g
BY36-028	748617.479	2082519.773	0.0	0.5	Zinc	75.000	---	73.760	307000	mg/kg
BY36-028	748617.479	2082519.773	0.5	2.5	1,1,1-Trichloroethane	6.630	5.57	---	79700000	µg/kg
BY36-028	748617.479	2082519.773	0.5	2.5	Copper	47.000	---	38.210	40900	mg/kg
BY36-028	748617.479	2082519.773	0.5	2.5	Lead	39.000	---	24.970	1000	mg/kg
BY36-028	748617.479	2082519.773	0.5	2.5	Naphthalene	67.800	5.57	---	3090000	µg/kg
BY36-028	748617.479	2082519.773	0.5	2.5	Tetrachloroethene	66.500	5.57	---	615000	µg/kg
BY36-028	748617.479	2082519.773	0.5	2.5	Uranium, Total	21.000	---	3.040	2750	mg/kg
BY36-028	*748617.479*	*2082519.773*	*0.5*	*2.5*	*Uranium-234*	*11.110*	---	*2.640*	*300*	*pCi/g*
BY36-028	748617.479	2082519.773	0.5	2.5	Uranium-235	0.315	---	0.120	8	pCi/g
BY36-028	748617.479	2082519.773	0.5	2.5	Uranium-238	11.110	---	1.490	351	pCi/g
BY36-029	*748582.834*	*2082529.476*	*0.0*	*0.5*	*Uranium-234*	*5.201*	---	*2.253*	*300*	*pCi/g*
BY36-029	748582.834	2082529.476	0.0	0.5	Uranium-235	0.239	---	0.094	8	pCi/g
BY36-029	748582.834	2082529.476	0.0	0.5	Uranium-238	5.201	---	2.000	351	pCi/g
BY36-029	748582.834	2082529.476	0.5	1.0	Naphthalene	31.400	5.36	---	3090000	µg/kg
BY36-029	748582.834	2082529.476	0.5	1.0	Uranium-238	2.043	---	1.490	351	pCi/g
BY37-017	748921.49	2082337.075	0.0	0.5	Copper	22.000	---	18.060	40900	mg/kg
BY37-017	*748921.49*	*2082337.075*	*0.5*	*2.5*	*Uranium-234*	*4.142*	---	*2.640*	*300*	*pCi/g*
BY37-017	748921.49	2082337.075	0.5	2.5	Uranium-235	0.178	---	0.120	8	pCi/g
BY37-017	748921.49	2082337.075	0.5	2.5	Uranium-238	4.142	---	1.490	351	pCi/g
BY37-018	748951.231	2082355.392	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY37-018	748951.231	2082355.392	0.0	0.5	Uranium-235	0.149	---	0.094	8	pCi/g
BY37-018	748951.231	2082355.392	0.0	0.5	Zinc	530.000	---	73.760	307000	mg/kg
BY37-018	748951.231	2082355.392	0.5	2.5	Uranium-235	0.143	---	0.120	8	pCi/g
BY37-018	748951.231	2082355.392	0.5	2.5	Zinc	400.000	---	139.100	307000	mg/kg
BY37-019	*748912.542*	*2082372.031*	*0.0*	*0.5*	*Uranium-234*	*2.802*	---	*2.253*	*300*	*pCi/g*
BY37-019	748912.542	2082372.031	0.0	0.5	Uranium-235	0.169	---	0.094	8	pCi/g
BY37-019	748912.542	2082372.031	0.0	0.5	Uranium-238	2.802	---	2.000	351	pCi/g
BY37-019	*748912.542*	*2082372.031*	*0.5*	*2.5*	*Uranium-234*	*2.717*	---	*2.640*	*300*	*pCi/g*
BY37-019	748912.542	2082372.031	0.5	2.5	Uranium-235	0.248	---	0.120	8	pCi/g
BY37-019	748912.542	2082372.031	0.5	2.5	Uranium-238	2.717	---	1.490	351	pCi/g
BY37-020	748938.372	2082397.083	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg
BY37-020	748938.372	2082397.083	0.0	0.5	Copper	25.000	---	18.060	40900	mg/kg
BY37-020	748938.372	2082397.083	0.0	0.5	Zinc	80.000	---	73.760	307000	mg/kg
BY37-020	748938.372	2082397.083	0.5	2.5	Uranium-235	0.173	---	0.120	8	pCi/g
BY37-020	748938.372	2082397.083	0.5	2.5	Uranium-238	2.280	---	1.490	351	pCi/g
BY37-021	*748929.357*	*2082432.007*	*0.0*	*0.5*	*Uranium-234*	*4.749*	---	*2.253*	*300*	*pCi/g*
BY37-021	748929.357	2082432.007	0.0	0.5	Uranium-235	0.164	---	0.094	8	pCi/g
BY37-021	748929.357	2082432.007	0.0	0.5	Uranium-238	4.749	---	2.000	351	pCi/g
BY37-021	748929.357	2082432.007	0.5	2.5	Uranium-235	0.122	---	0.120	8	pCi/g
BY37-022	748920.529	2082466.921	0.5	2.5	Uranium-235	0.175	---	0.120	8	pCi/g
BY37-022	748920.529	2082466.921	0.5	2.5	Uranium-238	2.535	---	1.490	351	pCi/g
BY37-023	748946.255	2082492.065	0.0	0.5	Chromium	33.000	---	16.990	268	mg/kg
BY37-023	748946.255	2082492.065	0.0	0.5	Copper	21.000	---	18.060	40900	mg/kg
BY37-023	748946.255	2082492.065	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BY37-023	*748946.255*	*2082492.065*	*0.0*	*0.5*	*Uranium-234*	*2.619*	---	*2.253*	*300*	*pCi/g*
BY37-023	748946.255	2082492.065	0.0	0.5	Uranium-235	0.105	---	0.094	8	pCi/g
BY37-023	748946.255	2082492.065	0.0	0.5	Uranium-238	2.619	---	2.000	351	pCi/g
BY37-023	748946.255	2082492.065	0.5	2.5	Uranium-238	2.142	---	1.490	351	pCi/g
BY37-024	748914.395	2082521.549	0.0	0.5	Beryllium	1.400	---	0.966	921	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BY37-024	748914.395	2082521.549	0.0	0.5	Chromium	20.000	---	16.990	268	mg/kg
BY37-024	*748914.395*	*2082521.549*	*0.5*	*2.5*	*Uranium-234*	*4.016*	---	*2.640*	*300*	*pCi/g*
BY37-024	748914.395	2082521.549	0.5	2.5	Uranium-235	0.173	---	0.120	8	pCi/g
BY37-024	748914.395	2082521.549	0.5	2.5	Uranium-238	4.016	---	1.490	351	pCi/g
BY37-025	748937.462	2082526.956	0.0	0.5	Aluminum	20000.000	---	16902.000	228000	mg/kg
BY37-025	748937.462	2082526.956	0.0	0.5	Beryllium	1.000	---	0.966	921	mg/kg
BY37-025	748937.462	2082526.956	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BY37-025	*748937.462*	*2082526.956*	*0.0*	*0.5*	*Uranium-234*	*4.757*	---	*2.253*	*300*	*pCi/g*
BY37-025	748937.462	2082526.956	0.0	0.5	Uranium-235	0.247	---	0.094	8	pCi/g
BY37-025	748937.462	2082526.956	0.0	0.5	Uranium-238	4.757	---	2.000	351	pCi/g
BY37-025	*748937.462*	*2082526.956*	*0.5*	*2.5*	*Uranium-234*	*3.795*	---	*2.640*	*300*	*pCi/g*
BY37-025	748937.462	2082526.956	0.5	2.5	Uranium-235	0.176	---	0.120	8	pCi/g
BY37-025	748937.462	2082526.956	0.5	2.5	Uranium-238	3.795	---	1.490	351	pCi/g
BY37-026	748902.749	2082537.015	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BY37-026	748902.749	2082537.015	0.0	0.5	Beryllium	1.100	---	0.966	921	mg/kg
BY37-026	748902.749	2082537.015	0.0	0.5	Chromium	28.000	---	16.990	268	mg/kg
BY37-026	748902.749	2082537.015	0.0	0.5	Lead	91.000	---	54.620	1000	mg/kg
BY37-026	748902.749	2082537.015	0.0	0.5	Lithium	14.000	---	11.550	20400	mg/kg
BY37-026	748902.749	2082537.015	0.0	0.5	Nickel	21.000	---	14.910	20400	mg/kg
BY37-026	*748902.749*	*2082537.015*	*0.0*	*0.5*	*Uranium-234*	*4.659*	---	*2.253*	*300*	*pCi/g*
BY37-026	748902.749	2082537.015	0.0	0.5	Uranium-235	0.192	---	0.094	8	pCi/g
BY37-026	748902.749	2082537.015	0.0	0.5	Uranium-238	4.659	---	2.000	351	pCi/g
BY37-026	748902.749	2082537.015	0.5	1.6	Naphthalene	19.500	5.31	---	3090000	µg/kg
BY37-026	*748902.749*	*2082537.015*	*0.5*	*1.6*	*Uranium-234*	*3.923*	---	*2.640*	*300*	*pCi/g*
BY37-026	748902.749	2082537.015	0.5	1.6	Uranium-235	0.231	---	0.120	8	pCi/g
BY37-026	748902.749	2082537.015	0.5	1.6	Uranium-238	3.923	---	1.490	351	pCi/g
BZ35-004-01	*748556.181*	*2082634.083*	*0.0*	*0.5*	*Uranium-234*	*3.307*	---	*2.253*	*300*	*pCi/g*
BZ35-004-01	748556.181	2082634.083	0.0	0.5	Uranium-235	0.132	---	0.094	8	pCi/g
BZ35-004-01	748556.181	2082634.083	0.0	0.5	Uranium-238	3.307	---	2.000	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ35-004-01	748556.181	2082634.083	0.5	2.5	Uranium-235	0.149	---	0.120	8	pCi/g
BZ35-005-01	748418.462	2082543.367	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BZ35-005-01	748418.462	2082543.367	0.0	0.5	Copper	25.000	---	18.060	40900	mg/kg
BZ35-005-01	748418.462	2082543.367	0.0	0.5	Iron	20000.000	---	18037.000	307000	mg/kg
BZ35-005-01	748418.462	2082543.367	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BZ35-005-01	748418.462	2082543.367	0.0	0.5	Uranium-235	0.172	---	0.094	8	pCi/g
BZ35-005-01	748418.462	2082543.367	0.5	2.5	Naphthalene	7.510	5.21	---	3090000	µg/kg
BZ35-005-01	748418.462	2082543.367	0.5	2.5	Uranium-235	0.126	---	0.120	8	pCi/g
BZ35-005-01	748418.462	2082543.367	0.5	2.5	Uranium-238	1.755	---	1.490	351	pCi/g
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Aluminum	18000.000	---	16902.000	228000	mg/kg
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Beryllium	1.000	---	0.966	921	mg/kg
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Nickel	15.000	---	14.910	20400	mg/kg
BZ35-006-01	*748444.192*	*2082568.424*	*0.0*	*0.5*	*Uranium-234*	*3.851*	---	*2.253*	*300*	*pCi/g*
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Uranium-235	0.182	---	0.094	8	pCi/g
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Uranium-238	3.851	---	2.000	351	pCi/g
BZ35-006-01	748444.192	2082568.424	0.0	0.5	Zinc	120.000	---	73.760	307000	mg/kg
BZ35-006-01	748444.192	2082568.424	0.5	2.5	Cadmium	1.900	---	1.700	962	mg/kg
BZ35-006-01	748444.192	2082568.424	0.5	2.5	Lead	26.000	---	24.970	1000	mg/kg
BZ35-006-01	*748444.192*	*2082568.424*	*0.5*	*2.5*	*Uranium-234*	*3.606*	---	*2.640*	*300*	*pCi/g*
BZ35-006-01	748444.192	2082568.424	0.5	2.5	Uranium-235	0.239	---	0.120	8	pCi/g
BZ35-006-01	748444.192	2082568.424	0.5	2.5	Uranium-238	3.606	---	1.490	351	pCi/g
BZ35-006-01	748444.192	2082568.424	0.5	2.5	Zinc	170.000	---	139.100	307000	mg/kg
BZ35-007-01	748383.750	2082553.038	0.0	0.5	Uranium-235	0.128	---	0.094	8	pCi/g
BZ35-007-01	748383.750	2082553.038	0.5	2.5	Manganese	940.000	---	901.620	3480	mg/kg
BZ35-007-01	*748383.750*	*2082553.038*	*0.5*	*2.5*	*Uranium-234*	*4.220*	---	*2.640*	*300*	*pCi/g*
BZ35-007-01	748383.750	2082553.038	0.5	2.5	Uranium-235	0.293	---	0.120	8	pCi/g
BZ35-007-01	748383.750	2082553.038	0.5	2.5	Uranium-238	4.220	---	1.490	351	pCi/g
BZ35-007-01	*748383.750*	*2082553.038*	*2.5*	*4.5*	*Uranium-234*	*3.607*	---	*2.640*	*300*	*pCi/g*

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ35-007-01	748383.750	2082553.038	2.5	4.5	Uranium-235	0.216	---	0.120	8	pCi/g
BZ35-007-01	748383.750	2082553.038	2.5	4.5	Uranium-238	3.607	---	1.490	351	pCi/g
BZ35-007-01	748383.750	2082553.038	4.5	6.5	Uranium-235	0.285	---	0.120	8	pCi/g
BZ35-007-01	748383.750	2082553.038	4.5	6.5	Uranium-238	2.062	---	1.490	351	pCi/g
BZ35-007-01	748383.750	2082553.038	8.5	10.5	Uranium-235	0.165	---	0.120	8	pCi/g
BZ35-008-01	748409.599	2082578.159	0.0	0.5	Copper	20.000	---	18.060	40900	mg/kg
BZ35-008-01	*748409.599*	*2082578.159*	*0.0*	*0.5*	*Uranium-234*	*3.958*	---	*2.253*	*300*	*pCi/g*
BZ35-008-01	748409.599	2082578.159	0.0	0.5	Uranium-235	0.177	---	0.094	8	pCi/g
BZ35-008-01	748409.599	2082578.159	0.0	0.5	Uranium-238	3.958	---	2.000	351	pCi/g
BZ35-008-01	748409.599	2082578.159	0.5	2.5	Cadmium	2.900	---	1.700	962	mg/kg
BZ35-008-01	748409.599	2082578.159	0.5	2.5	Lead	26.000	---	24.970	1000	mg/kg
BZ35-008-01	*748409.599*	*2082578.159*	*0.5*	*2.5*	*Uranium-234*	*4.944*	---	*2.640*	*300*	*pCi/g*
BZ35-008-01	748409.599	2082578.159	0.5	2.5	Uranium-235	0.248	---	0.120	8	pCi/g
BZ35-008-01	748409.599	2082578.159	0.5	2.5	Uranium-238	4.944	---	1.490	351	pCi/g
BZ35-008-01	748409.599	2082578.159	4.5	6.5	Uranium-235	0.140	---	0.120	8	pCi/g
BZ35-009	748435.307	2082603.334	0.0	0.5	Aluminum	25000.000	---	16902.000	228000	mg/kg
BZ35-009	748435.307	2082603.334	0.0	0.5	Barium	290.000	---	141.260	26400	mg/kg
BZ35-009	748435.307	2082603.334	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BZ35-009	748435.307	2082603.334	0.0	0.5	Chromium	77.000	---	16.990	268	mg/kg
BZ35-009	748435.307	2082603.334	0.0	0.5	Iron	22000.000	---	18037.000	307000	mg/kg
BZ35-009	748435.307	2082603.334	0.0	0.5	Lithium	18.000	---	11.550	20400	mg/kg
BZ35-009	748435.307	2082603.334	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BZ35-009	*748435.307*	*2082603.334*	*0.0*	*0.5*	*Uranium-234*	*3.311*	---	*2.253*	*300*	*pCi/g*
BZ35-009	748435.307	2082603.334	0.0	0.5	Uranium-238	3.311	---	2.000	351	pCi/g
BZ35-009	*748435.307*	*2082603.334*	*0.5*	*2.5*	*Uranium-234*	*3.729*	---	*2.640*	*300*	*pCi/g*
BZ35-009	748435.307	2082603.334	0.5	2.5	Uranium-235	0.179	---	0.120	8	pCi/g
BZ35-009	748435.307	2082603.334	0.5	2.5	Uranium-238	3.729	---	1.490	351	pCi/g
BZ35-009	*748435.307*	*2082603.334*	*2.5*	*4.5*	*Uranium-234*	*3.435*	---	*2.640*	*300*	*pCi/g*
BZ35-009	748435.307	2082603.334	2.5	4.5	Uranium-235	0.139	---	0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ35-009	748435.307	2082603.334	2.5	4.5	Uranium-238	3.435	---	1.490	351	pCi/g
BZ35-009	*748435.307*	*2082603.334*	*4.5*	*6.5*	*Uranium-234*	*3.657*	---	*2.640*	*300*	*pCi/g*
BZ35-009	748435.307	2082603.334	4.5	6.5	Uranium-235	0.173	---	0.120	8	pCi/g
BZ35-009	748435.307	2082603.334	4.5	6.5	Uranium-238	3.657	---	1.490	351	pCi/g
BZ35-009	748435.307	2082603.334	8.5	10.5	Uranium-235	0.162	---	0.120	8	pCi/g
BZ35-010-02	748461.100	2082628.471	0.0	0.5	Iron	20000.000	---	18037.000	307000	mg/kg
BZ35-010-02	*748461.100*	*2082628.471*	*0.0*	*0.5*	*Uranium-234*	*4.177*	---	*2.253*	*300*	*pCi/g*
BZ35-010-02	748461.100	2082628.471	0.0	0.5	Uranium-235	0.229	---	0.094	8	pCi/g
BZ35-010-02	748461.100	2082628.471	0.0	0.5	Uranium-238	4.177	---	2.000	351	pCi/g
BZ35-010-02	*748461.100*	*2082628.471*	*0.5*	*2.5*	*Uranium-234*	*3.460*	---	*2.640*	*300*	*pCi/g*
BZ35-010-02	748461.100	2082628.471	0.5	2.5	Uranium-235	0.133	---	0.120	8	pCi/g
BZ35-010-02	748461.100	2082628.471	0.5	2.5	Uranium-238	3.460	---	1.490	351	pCi/g
BZ35-010-02	748461.100	2082628.471	2.5	4.5	Aluminum	41000.000	---	35373.170	228000	mg/kg
BZ35-010-02	748461.100	2082628.471	2.5	4.5	Uranium-235	0.141	---	0.120	8	pCi/g
BZ36-006	748729.523	2082585.384	0.0	0.5	Uranium-235	0.193	---	0.094	8	pCi/g
BZ36-007	748755.292	2082615.863	0.0	0.5	Chromium	29.000	---	16.990	268	mg/kg
BZ36-007	748755.292	2082615.863	0.0	0.5	Copper	26.000	---	18.060	40900	mg/kg
BZ36-007	748755.292	2082615.863	0.0	0.5	Tin	6.700	---	2.900	613000	mg/kg
BZ36-007	*748755.292*	*2082615.863*	*0.0*	*0.5*	*Uranium-234*	*4.890*	---	*2.253*	*300*	*pCi/g*
BZ36-007	748755.292	2082615.863	0.0	0.5	Uranium-235	0.196	---	0.094	8	pCi/g
BZ36-007	748755.292	2082615.863	0.0	0.5	Uranium-238	4.890	---	2.000	351	pCi/g
BZ36-007	748755.292	2082615.863	0.0	0.5	Zinc	240.000	---	73.760	307000	mg/kg
BZ36-007	748755.292	2082615.863	0.5	2.5	Uranium, Total	3.500	---	3.040	2750	mg/kg
BZ36-007	*748755.292*	*2082615.863*	*0.5*	*2.5*	*Uranium-234*	*4.259*	---	*2.640*	*300*	*pCi/g*
BZ36-007	748755.292	2082615.863	0.5	2.5	Uranium-235	0.236	---	0.120	8	pCi/g
BZ36-007	748755.292	2082615.863	0.5	2.5	Uranium-238	4.259	---	1.490	351	pCi/g
BZ36-008	748643.253	2082544.851	0.5	2.5	Arsenic	20.000	---	13.140	22.2	mg/kg
BZ36-008	748643.253	2082544.851	0.5	2.5	Lead	37.000	---	24.970	1000	mg/kg
BZ36-008	748643.253	2082544.851	0.5	2.5	Uranium-235	0.152	---	0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ36-009	748669.070	2082569.988	0.0	0.5	Copper	29.000	---	18.060	40900	mg/kg
BZ36-009	748669.070	2082569.988	0.0	0.5	Iron	25000.000	---	18037.000	307000	mg/kg
BZ36-009	748669.070	2082569.988	0.0	0.5	Manganese	520.000	---	365.080	3480	mg/kg
BZ36-009	748669.070	2082569.988	0.0	0.5	Uranium-235	0.234	---	0.094	8	pCi/g
BZ36-009	748669.070	2082569.988	0.0	0.5	Zinc	80.000	---	73.760	307000	mg/kg
BZ36-009	*748669.070*	*2082569.988*	*0.5*	*2.5*	*Uranium-234*	*4.294*	---	*2.640*	*300*	*pCi/g*
BZ36-009	748669.070	2082569.988	0.5	2.5	Uranium-235	0.270	---	0.120	8	pCi/g
BZ36-009	748669.070	2082569.988	0.5	2.5	Uranium-238	4.294	---	1.490	351	pCi/g
BZ36-010	*748694.805*	*2082595.095*	*0.0*	*0.5*	*Uranium-234*	*5.080*	---	*2.253*	*300*	*pCi/g*
BZ36-010	748694.805	2082595.095	0.0	0.5	Uranium-235	0.249	---	0.094	8	pCi/g
BZ36-010	748694.805	2082595.095	0.0	0.5	Uranium-238	5.080	---	2.000	351	pCi/g
BZ36-010	*748694.805*	*2082595.095*	*0.5*	*2.5*	*Uranium-234*	*3.365*	---	*2.640*	*300*	*pCi/g*
BZ36-010	748694.805	2082595.095	0.5	2.5	Uranium-235	0.235	---	0.120	8	pCi/g
BZ36-010	748694.805	2082595.095	0.5	2.5	Uranium-238	3.365	---	1.490	351	pCi/g
BZ36-011	748720.587	2082620.333	0.0	0.5	Beryllium	5.400	---	0.966	921	mg/kg
BZ36-011	748720.587	2082620.333	0.0	0.5	Chromium	22.000	---	16.990	268	mg/kg
BZ36-011	748720.587	2082620.333	0.0	0.5	Uranium-238	2.176	---	2.000	351	pCi/g
BZ36-011	748720.587	2082620.333	0.0	0.5	Zinc	120.000	---	73.760	307000	mg/kg
BZ36-011	748720.587	2082620.333	0.5	2.0	Uranium-238	2.441	---	1.490	351	pCi/g
BZ36-012	748746.379	2082645.463	0.0	0.5	Aluminum	39000.000	---	16902.000	228000	mg/kg
BZ36-012	748746.379	2082645.463	0.0	0.5	Beryllium	1.800	---	0.966	921	mg/kg
BZ36-012	748746.379	2082645.463	0.0	0.5	Chromium	35.000	---	16.990	268	mg/kg
BZ36-012	748746.379	2082645.463	0.0	0.5	Iron	22000.000	---	18037.000	307000	mg/kg
BZ36-012	748746.379	2082645.463	0.0	0.5	Lithium	43.000	---	11.550	20400	mg/kg
BZ36-012	748746.379	2082645.463	0.0	0.5	Nickel	26.000	---	14.910	20400	mg/kg
BZ36-012	*748746.379*	*2082645.463*	*0.0*	*0.5*	*Uranium-234*	*2.991*	---	*2.253*	*300*	*pCi/g*
BZ36-012	748746.379	2082645.463	0.0	0.5	Uranium-235	0.148	---	0.094	8	pCi/g
BZ36-012	748746.379	2082645.463	0.0	0.5	Uranium-238	2.991	---	2.000	351	pCi/g
BZ36-012	748746.379	2082645.463	0.0	0.5	Vanadium	57.000	---	45.590	7150	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ36-012	**748746.379**	**2082645.463**	**0.5**	**2.5**	**Arsenic**	**24.000**	**---**	**13.140**	**22.2**	**mg/kg**
BZ36-012	748746.379	2082645.463	0.5	2.5	Vanadium	110.000	---	88.490	7150	mg/kg
BZ36-013	748608.609	2082554.570	0.0	0.5	Uranium-235	0.202	---	0.094	8	pCi/g
BZ36-013	748608.609	2082554.570	0.5	2.5	Aluminum	39000.000	---	35373.170	228000	mg/kg
BZ36-013	*748608.609*	*2082554.570*	*0.5*	*2.5*	*Uranium-234*	*2.725*	*---*	*2.640*	*300*	*pCi/g*
BZ36-013	748608.609	2082554.570	0.5	2.5	Uranium-238	2.725	---	1.490	351	pCi/g
BZ36-014	748634.482	2082579.775	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg
BZ36-014	748634.482	2082579.775	0.0	0.5	Uranium-235	0.182	---	0.094	8	pCi/g
BZ36-014	748634.482	2082579.775	0.5	2.5	Aluminum	43000.000	---	35373.170	228000	mg/kg
BZ36-014	748634.482	2082579.775	0.5	2.5	Uranium-235	0.163	---	0.120	8	pCi/g
BZ36-015	748660.118	2082604.937	0.0	0.5	Antimony	0.670	---	0.470	409	mg/kg
BZ36-015	748660.118	2082604.937	0.0	0.5	Chromium	22.000	---	16.990	268	mg/kg
BZ36-015	748660.118	2082604.937	0.0	0.5	Copper	66.000	---	18.060	40900	mg/kg
BZ36-015	748660.118	2082604.937	0.0	0.5	Iron	20000.000	---	18037.000	307000	mg/kg
BZ36-015	748660.118	2082604.937	0.0	0.5	Nickel	31.000	---	14.910	20400	mg/kg
BZ36-015	748660.118	2082604.937	0.0	0.5	Tin	7.400	---	2.900	613000	mg/kg
BZ36-015	*748660.118*	*2082604.937*	*0.0*	*0.5*	*Uranium-234*	*5.101*	*---*	*2.253*	*300*	*pCi/g*
BZ36-015	748660.118	2082604.937	0.0	0.5	Uranium-235	0.294	---	0.094	8	pCi/g
BZ36-015	748660.118	2082604.937	0.0	0.5	Uranium-238	5.101	---	2.000	351	pCi/g
BZ36-015	748660.118	2082604.937	0.0	0.5	Zinc	87.000	---	73.760	307000	mg/kg
BZ36-015	*748660.118*	*2082604.937*	*0.5*	*2.5*	*Uranium-234*	*5.434*	*---*	*2.640*	*300*	*pCi/g*
BZ36-015	748660.118	2082604.937	0.5	2.5	Uranium-235	0.228	---	0.120	8	pCi/g
BZ36-015	748660.118	2082604.937	0.5	2.5	Uranium-238	5.434	---	1.490	351	pCi/g
BZ36-016	748685.886	2082630.050	0.0	0.5	Chromium	35.000	---	16.990	268	mg/kg
BZ36-016	748685.886	2082630.050	0.0	0.5	Copper	32.000	---	18.060	40900	mg/kg
BZ36-016	748685.886	2082630.050	0.0	0.5	Uranium, Total	11.000	---	5.980	2750	mg/kg
BZ36-016	*748685.886*	*2082630.050*	*0.0*	*0.5*	*Uranium-234*	*6.039*	*---*	*2.253*	*300*	*pCi/g*
BZ36-016	748685.886	2082630.050	0.0	0.5	Uranium-235	0.288	---	0.094	8	pCi/g
BZ36-016	748685.886	2082630.050	0.0	0.5	Uranium-238	6.039	---	2.000	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ36-016	748685.886	2082630.050	0.0	0.5	Zinc	370.000	---	73.760	307000	mg/kg
BZ36-016	748685.886	2082630.050	0.5	2.5	Copper	39.000	---	38.210	40900	mg/kg
BZ36-016	748685.886	2082630.050	0.5	2.5	Lead	44.000	---	24.970	1000	mg/kg
BZ36-016	748685.886	2082630.050	0.5	2.5	Uranium, Total	9.300	---	3.040	2750	mg/kg
BZ36-016	*748685.886*	*2082630.050*	*0.5*	*2.5*	*Uranium-234*	*4.640*	---	*2.640*	*300*	*pCi/g*
BZ36-016	748685.886	2082630.050	0.5	2.5	Uranium-235	0.138	---	0.120	8	pCi/g
BZ36-016	748685.886	2082630.050	0.5	2.5	Uranium-238	4.640	---	1.490	351	pCi/g
BZ36-016	748685.886	2082630.050	0.5	2.5	Zinc	340.000	---	139.100	307000	mg/kg
BZ36-017	748711.698	2082655.123	0.0	0.5	Aluminum	26000.000	---	16902.000	228000	mg/kg
BZ36-017	748711.698	2082655.123	0.0	0.5	Beryllium	1.300	---	0.966	921	mg/kg
BZ36-017	748711.698	2082655.123	0.0	0.5	Chromium	23.000	---	16.990	268	mg/kg
BZ36-017	748711.698	2082655.123	0.0	0.5	Lithium	17.000	---	11.550	20400	mg/kg
BZ36-017	748711.698	2082655.123	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BZ36-017	748711.698	2082655.123	0.0	0.5	Vanadium	47.000	---	45.590	7150	mg/kg
BZ36-017	748711.698	2082655.123	0.5	2.5	Acetone	160.000	124	---	102000000	µg/kg
BZ36-017	748711.698	2082655.123	0.5	2.5	Aluminum	39000.000	---	35373.170	228000	mg/kg
BZ36-018	*748573.947*	*2082564.358*	*0.0*	*0.5*	*Uranium-234*	*4.787*	---	*2.253*	*300*	*pCi/g*
BZ36-018	748573.947	2082564.358	0.0	0.5	Uranium-235	0.224	---	0.094	8	pCi/g
BZ36-018	748573.947	2082564.358	0.0	0.5	Uranium-238	4.787	---	2.000	351	pCi/g
BZ36-018	*748573.947*	*2082564.358*	*0.5*	*2.5*	*Uranium-234*	*3.815*	---	*2.640*	*300*	*pCi/g*
BZ36-018	748573.947	2082564.358	0.5	2.5	Uranium-235	0.253	---	0.120	8	pCi/g
BZ36-018	748573.947	2082564.358	0.5	2.5	Uranium-238	3.815	---	1.490	351	pCi/g
BZ36-019	748599.786	2082589.499	0.0	0.5	Chromium	23.000	---	16.990	268	mg/kg
BZ36-019	748599.786	2082589.499	0.0	0.5	Nickel	15.000	---	14.910	20400	mg/kg
BZ36-019	748599.786	2082589.499	0.5	2.5	Uranium-235	0.176	---	0.120	8	pCi/g
BZ36-019	748599.786	2082589.499	0.5	2.5	Uranium-238	1.872	---	1.490	351	pCi/g
BZ36-020	748625.475	2082614.606	0.0	0.5	Beryllium	1.900	---	0.966	921	mg/kg
BZ36-020	748625.475	2082614.606	0.0	0.5	Chromium	19.000	---	16.990	268	mg/kg
BZ36-020	748625.475	2082614.606	0.0	0.5	Lead	66.000	---	54.620	1000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ36-020	748625.475	2082614.606	0.0	0.5	Uranium, Total	35.000	---	5.980	2750	mg/kg
BZ36-020	*748625.475*	*2082614.606*	*0.0*	*0.5*	*Uranium-234*	*4.746*	---	*2.253*	*300*	*pCi/g*
BZ36-020	748625.475	2082614.606	0.0	0.5	Uranium-235	0.229	---	0.094	8	pCi/g
BZ36-020	748625.475	2082614.606	0.0	0.5	Uranium-238	4.746	---	2.000	351	pCi/g
BZ36-020	748625.475	2082614.606	0.0	0.5	Zinc	350.000	---	73.760	307000	mg/kg
BZ36-020	*748625.475*	*2082614.606*	*0.5*	*2.5*	*Uranium-234*	*4.523*	---	*2.640*	*300*	*pCi/g*
BZ36-020	748625.475	2082614.606	0.5	2.5	Uranium-235	0.200	---	0.120	8	pCi/g
BZ36-020	748625.475	2082614.606	0.5	2.5	Uranium-238	4.523	---	1.490	351	pCi/g
BZ36-021	748651.281	2082639.711	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BZ36-021	748651.281	2082639.711	0.0	0.5	Beryllium	1.500	---	0.966	921	mg/kg
BZ36-021	748651.281	2082639.711	0.0	0.5	Cadmium	2.400	---	1.612	962	mg/kg
BZ36-021	748651.281	2082639.711	0.0	0.5	Chromium	27.000	---	16.990	268	mg/kg
BZ36-021	748651.281	2082639.711	0.0	0.5	Lithium	13.000	---	11.550	20400	mg/kg
BZ36-021	748651.281	2082639.711	0.0	0.5	Nickel	19.000	---	14.910	20400	mg/kg
BZ36-021	*748651.281*	*2082639.711*	*0.0*	*0.5*	*Uranium-234*	*5.612*	---	*2.253*	*300*	*pCi/g*
BZ36-021	748651.281	2082639.711	0.0	0.5	Uranium-235	0.159	---	0.094	8	pCi/g
BZ36-021	748651.281	2082639.711	0.0	0.5	Uranium-238	5.612	---	2.000	351	pCi/g
BZ36-021	748651.281	2082639.711	0.0	0.5	Vanadium	46.000	---	45.590	7150	mg/kg
BZ36-021	748651.281	2082639.711	0.0	0.5	Zinc	190.000	---	73.760	307000	mg/kg
BZ36-021	748651.281	2082639.711	0.5	2.5	Cadmium	3.700	---	1.700	962	mg/kg
BZ36-021	748651.281	2082639.711	0.5	2.5	Lead	38.000	---	24.970	1000	mg/kg
BZ36-021	748651.281	2082639.711	0.5	2.5	Naphthalene	34.100	5.97	---	3090000	µg/kg
BZ36-021	748651.281	2082639.711	0.5	2.5	Uranium, Total	4.600	---	3.040	2750	mg/kg
BZ36-021	*748651.281*	*2082639.711*	*0.5*	*2.5*	*Uranium-234*	*5.676*	---	*2.640*	*300*	*pCi/g*
BZ36-021	748651.281	2082639.711	0.5	2.5	Uranium-235	0.210	---	0.120	8	pCi/g
BZ36-021	748651.281	2082639.711	0.5	2.5	Uranium-238	5.676	---	1.490	351	pCi/g
BZ36-021	748651.281	2082639.711	0.5	2.5	Zinc	260.000	---	139.100	307000	mg/kg
BZ36-022	748677.072	2082664.934	0.0	0.5	Uranium-235	0.292	---	0.094	8	pCi/g
BZ36-022	748677.072	2082664.934	0.5	2.5	Uranium-235	0.128	---	0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ36-022	748677.072	2082664.934	0.5	2.5	Uranium-238	1.844	---	1.490	351	pCi/g
BZ36-023	*748565.076*	*2082599.290*	*0.0*	*0.5*	*Uranium-234*	*4.539*	---	*2.253*	*300*	*pCi/g*
BZ36-023	748565.076	2082599.290	0.0	0.5	Uranium-235	0.254	---	0.094	8	pCi/g
BZ36-023	748565.076	2082599.290	0.0	0.5	Uranium-238	4.539	---	2.000	351	pCi/g
BZ36-023	748565.076	2082599.290	0.5	2.5	Uranium-238	1.676	---	1.490	351	pCi/g
BZ36-024	748590.814	2082624.354	0.0	0.5	Aluminum	23000.000	---	16902.000	228000	mg/kg
BZ36-024	748590.814	2082624.354	0.0	0.5	Beryllium	1.400	---	0.966	921	mg/kg
BZ36-024	748590.814	2082624.354	0.0	0.5	Chromium	32.000	---	16.990	268	mg/kg
BZ36-024	748590.814	2082624.354	0.0	0.5	Nickel	20.000	---	14.910	20400	mg/kg
BZ36-024	748590.814	2082624.354	0.0	0.5	Uranium-235	0.103	---	0.094	8	pCi/g
BZ36-024	748590.814	2082624.354	0.0	0.5	Zinc	75.000	---	73.760	307000	mg/kg
BZ36-024	748590.814	2082624.354	0.5	2.5	Uranium-235	0.191	---	0.120	8	pCi/g
BZ36-024	748590.814	2082624.354	0.5	2.5	Uranium-238	1.665	---	1.490	351	pCi/g
BZ36-024	748590.814	2082624.354	0.5	2.5	Zinc	150.000	---	139.100	307000	mg/kg
BZ36-025	748616.668	2082649.540	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BZ36-025	748616.668	2082649.540	0.0	0.5	Chromium	17.000	---	16.990	268	mg/kg
BZ36-025	748616.668	2082649.540	0.0	0.5	Copper	19.000	---	18.060	40900	mg/kg
BZ36-025	748616.668	2082649.540	0.0	0.5	Plutonium-239/240	0.370	---	0.066	50	pCi/g
BZ36-025	748616.668	2082649.540	0.0	0.5	Zinc	83.000	---	73.760	307000	mg/kg
BZ36-026	748582.000	2082659.189	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BZ36-026	748582.000	2082659.189	0.0	0.5	Manganese	370.000	---	365.080	3480	mg/kg
BZ36-026	748582.000	2082659.189	0.0	0.5	Strontium	51.000	---	48.940	613000	mg/kg
BZ36-026	748582.000	2082659.189	0.0	0.5	Zinc	210.000	---	73.760	307000	mg/kg
BZ36-026	748582.000	2082659.189	0.5	2.2	Lead	59.000	---	24.970	1000	mg/kg
BZ36-026	748582.000	2082659.189	0.5	2.2	Uranium-238	1.827	---	1.490	351	pCi/g
BZ36-026	748582.000	2082659.189	0.5	2.2	Zinc	350.000	---	139.100	307000	mg/kg
BZ37-003	748928.515	2082561.845	0.0	0.5	Uranium-235	0.121	---	0.094	8	pCi/g
BZ37-003	748928.515	2082561.845	0.5	2.5	Uranium-235	0.138	---	0.120	8	pCi/g
BZ37-003	748928.515	2082561.845	0.5	2.5	Uranium-238	1.780	---	1.490	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ37-004	*748949.922*	*2082587.164*	*0.0*	*0.5*	*Uranium-234*	*4.804*	---	*2.253*	*300*	*pCi/g*
BZ37-004	748949.922	2082587.164	0.0	0.5	Uranium-235	0.232	---	0.094	8	pCi/g
BZ37-004	748949.922	2082587.164	0.0	0.5	Uranium-238	4.804	---	2.000	351	pCi/g
BZ37-004	748949.922	2082587.164	0.0	0.5	Zinc	96.000	---	73.760	307000	mg/kg
BZ37-004	748949.922	2082587.164	0.5	2.5	Uranium-238	1.509	---	1.490	351	pCi/g
BZ37-005	*748893.935*	*2082571.665*	*0.0*	*0.5*	*Uranium-234*	*2.693*	---	*2.253*	*300*	*pCi/g*
BZ37-005	748893.935	2082571.665	0.0	0.5	Uranium-235	0.188	---	0.094	8	pCi/g
BZ37-005	748893.935	2082571.665	0.0	0.5	Uranium-238	2.693	---	2.000	351	pCi/g
BZ37-005	748893.935	2082571.665	0.5	1.5	Copper	48.000	---	38.210	40900	mg/kg
BZ37-005	748893.935	2082571.665	0.5	1.5	Uranium-238	1.737	---	1.490	351	pCi/g
BZ37-006	*748913.229*	*2082591.552*	*0.0*	*0.5*	*Uranium-234*	*4.492*	---	*2.253*	*300*	*pCi/g*
BZ37-006	748913.229	2082591.552	0.0	0.5	Uranium-235	0.226	---	0.094	8	pCi/g
BZ37-006	748913.229	2082591.552	0.0	0.5	Uranium-238	4.492	---	2.000	351	pCi/g
BZ37-006	*748913.229*	*2082591.552*	*0.5*	*2.5*	*Uranium-234*	*5.119*	---	*2.640*	*300*	*pCi/g*
BZ37-006	748913.229	2082591.552	0.5	2.5	Uranium-235	0.286	---	0.120	8	pCi/g
BZ37-006	748913.229	2082591.552	0.5	2.5	Uranium-238	5.119	---	1.490	351	pCi/g
BZ37-007	748945.433	2082621.830	0.0	0.5	Copper	79.000	---	18.060	40900	mg/kg
BZ37-007	748945.433	2082621.830	0.0	0.5	Zinc	100.000	---	73.760	307000	mg/kg
BZ37-007	748945.433	2082621.830	0.5	2.5	Ethylbenzene	10.500	5.82	---	4250000	µg/kg
BZ37-007	748945.433	2082621.830	0.5	2.5	Naphthalene	27.200	5.82	---	3090000	µg/kg
BZ37-007	*748945.433*	*2082621.830*	*0.5*	*2.5*	*Uranium-234*	*4.727*	---	*2.640*	*300*	*pCi/g*
BZ37-007	748945.433	2082621.830	0.5	2.5	Uranium-235	0.209	---	0.120	8	pCi/g
BZ37-007	748945.433	2082621.830	0.5	2.5	Uranium-238	4.727	---	1.490	351	pCi/g
BZ37-007	748945.433	2082621.830	0.5	2.5	Xylene	90.200	11.6	---	2040000	µg/kg
BZ37-007	748945.433	2082621.830	6.5	8.5	Americium-241	0.147	---	0.020	76	pCi/g
BZ37-007	*748945.433*	*2082621.830*	*6.5*	*8.5*	*Plutonium-239/240*	*0.839*	---	*0.020*	*50*	*pCi/g*
BZ37-007	748945.433	2082621.830	6.5	8.5	Uranium-238	1.644	---	1.490	351	pCi/g
BZ37-007	*748945.433*	*2082621.830*	*8.5*	*10.5*	*Uranium-234*	*4.611*	---	*2.640*	*300*	*pCi/g*
BZ37-007	748945.433	2082621.830	8.5	10.5	Uranium-235	0.207	---	0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ37-007	748945.433	2082621.830	8.5	10.5	Uranium-238	4.611	---	1.490	351	pCi/g
BZ37-008	*748859.241*	*2082581.274*	*0.0*	*0.5*	*Uranium-234*	*4.568*	---	*2.253*	*300*	*pCi/g*
BZ37-008	748859.241	2082581.274	0.0	0.5	Uranium-235	0.153	---	0.094	8	pCi/g
BZ37-008	748859.241	2082581.274	0.0	0.5	Uranium-238	4.568	---	2.000	351	pCi/g
BZ37-008	*748859.241*	*2082581.274*	*0.5*	*2.5*	*Uranium-234*	*3.648*	---	*2.640*	*300*	*pCi/g*
BZ37-008	748859.241	2082581.274	0.5	2.5	Uranium-235	0.213	---	0.120	8	pCi/g
BZ37-008	748859.241	2082581.274	0.5	2.5	Uranium-238	3.648	---	1.490	351	pCi/g
BZ37-009	*748884.946*	*2082606.463*	*0.0*	*0.5*	*Uranium-234*	*5.041*	---	*2.253*	*300*	*pCi/g*
BZ37-009	748884.946	2082606.463	0.0	0.5	Uranium-235	0.257	---	0.094	8	pCi/g
BZ37-009	748884.946	2082606.463	0.0	0.5	Uranium-238	5.041	---	2.000	351	pCi/g
BZ37-009	*748884.946*	*2082606.463*	*0.5*	*2.5*	*Uranium-234*	*3.939*	---	*2.640*	*300*	*pCi/g*
BZ37-009	748884.946	2082606.463	0.5	2.5	Uranium-235	0.246	---	0.120	8	pCi/g
BZ37-009	748884.946	2082606.463	0.5	2.5	Uranium-238	3.939	---	1.490	351	pCi/g
BZ37-010	748910.720	2082631.635	0.0	0.5	Copper	23.000	---	18.060	40900	mg/kg
BZ37-010	748910.720	2082631.635	0.0	0.5	Zinc	86.000	---	73.760	307000	mg/kg
BZ37-010	748910.720	2082631.635	0.5	2.5	Uranium, Total	3.300	---	3.040	2750	mg/kg
BZ37-010	*748910.720*	*2082631.635*	*0.5*	*2.5*	*Uranium-234*	*4.361*	---	*2.640*	*300*	*pCi/g*
BZ37-010	748910.720	2082631.635	0.5	2.5	Uranium-235	0.165	---	0.120	8	pCi/g
BZ37-010	748910.720	2082631.635	0.5	2.5	Uranium-238	4.361	---	1.490	351	pCi/g
BZ37-011	748936.491	2082656.742	0.0	0.5	Aluminum	17000.000	---	16902.000	228000	mg/kg
BZ37-011	748936.491	2082656.742	0.0	0.5	Chromium	18.000	---	16.990	268	mg/kg
BZ37-011	*748936.491*	*2082656.742*	*0.0*	*0.5*	*Uranium-234*	*2.326*	---	*2.253*	*300*	*pCi/g*
BZ37-011	748936.491	2082656.742	0.0	0.5	Uranium-235	0.165	---	0.094	8	pCi/g
BZ37-011	748936.491	2082656.742	0.0	0.5	Uranium-238	2.326	---	2.000	351	pCi/g
BZ37-011	748936.491	2082656.742	0.5	2.5	Aluminum	49000.000	---	35373.170	228000	mg/kg
BZ37-011	748936.491	2082656.742	0.5	2.5	Arsenic	15.000	---	13.140	22.2	mg/kg
BZ37-011	748936.491	2082656.742	0.5	2.5	Uranium, Total	3.300	---	3.040	2750	mg/kg
BZ37-011	*748936.491*	*2082656.742*	*0.5*	*2.5*	*Uranium-234*	*5.059*	---	*2.640*	*300*	*pCi/g*
BZ37-011	748936.491	2082656.742	0.5	2.5	Uranium-235	0.286	---	0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ37-011	748936.491	2082656.742	0.5	2.5	Uranium-238	5.059	---	1.490	351	pCi/g
BZ37-011	748936.491	2082656.742	2.5	4.5	Uranium-238	1.873	---	1.490	351	pCi/g
BZ37-011	748936.491	2082656.742	6.5	8.5	Uranium-235	0.130	---	0.120	8	pCi/g
BZ37-011	748936.491	2082656.742	6.5	8.5	Uranium-238	1.532	---	1.490	351	pCi/g
BZ37-012	748824.548	2082591.036	0.0	0.5	Copper	21.000	---	18.060	40900	mg/kg
BZ37-012	748824.548	2082591.036	0.0	0.5	Uranium-235	0.213	---	0.094	8	pCi/g
BZ37-012	748824.548	2082591.036	0.0	0.5	Uranium-238	2.121	---	2.000	351	pCi/g
BZ37-012	*748824.548*	*2082591.036*	*0.5*	*2.0*	*Uranium-234*	*4.882*	---	*2.640*	*300*	*pCi/g*
BZ37-012	748824.548	2082591.036	0.5	2.0	Uranium-235	0.207	---	0.120	8	pCi/g
BZ37-012	748824.548	2082591.036	0.5	2.0	Uranium-238	4.882	---	1.490	351	pCi/g
BZ37-013	*748850.582*	*2082621.345*	*0.0*	*0.5*	*Uranium-234*	*4.840*	---	*2.253*	*300*	*pCi/g*
BZ37-013	748850.582	2082621.345	0.0	0.5	Uranium-235	0.238	---	0.094	8	pCi/g
BZ37-013	748850.582	2082621.345	0.0	0.5	Uranium-238	4.840	---	2.000	351	pCi/g
BZ37-013	748850.582	2082621.345	0.0	0.5	Zinc	99.000	---	73.760	307000	mg/kg
BZ37-013	748850.582	2082621.345	0.5	2.5	Lead	37.000	---	24.970	1000	mg/kg
BZ37-013	748850.582	2082621.345	0.5	2.5	Uranium, Total	8.300	---	3.040	2750	mg/kg
BZ37-013	*748850.582*	*2082621.345*	*0.5*	*2.5*	*Uranium-234*	*5.617*	---	*2.640*	*300*	*pCi/g*
BZ37-013	748850.582	2082621.345	0.5	2.5	Uranium-235	0.235	---	0.120	8	pCi/g
BZ37-013	748850.582	2082621.345	0.5	2.5	Uranium-238	5.617	---	1.490	351	pCi/g
BZ37-014	748876.027	2082641.333	0.0	0.5	Aluminum	21000.000	---	16902.000	228000	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Beryllium	1.200	---	0.966	921	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Chromium	21.000	---	16.990	268	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Copper	22.000	---	18.060	40900	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Lithium	14.000	---	11.550	20400	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Nickel	17.000	---	14.910	20400	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Uranium-235	0.136	---	0.094	8	pCi/g
BZ37-014	748876.027	2082641.333	0.0	0.5	Vanadium	47.000	---	45.590	7150	mg/kg
BZ37-014	748876.027	2082641.333	0.0	0.5	Zinc	81.000	---	73.760	307000	mg/kg
BZ37-014	748876.027	2082641.333	0.5	2.5	Aluminum	41000.000	---	35373.170	228000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ37-014	748876.027	2082641.333	0.5	2.5	Arsenic	14.000	---	13.140	22.2	mg/kg
BZ37-015	*748901.853*	*2082666.432*	*0.0*	*0.5*	*Uranium-234*	*3.575*	---	*2.253*	*300*	*pCi/g*
BZ37-015	748901.853	2082666.432	0.0	0.5	Uranium-235	0.232	---	0.094	8	pCi/g
BZ37-015	748901.853	2082666.432	0.0	0.5	Uranium-238	3.575	---	2.000	351	pCi/g
BZ37-015	748901.853	2082666.432	0.5	2.5	Aluminum	44000.000	---	35373.170	228000	mg/kg
BZ37-016	748789.841	2082600.852	0.5	2.5	Naphthalene	7.330	5.11	---	3090000	µg/kg
BZ37-017	748815.670	2082625.998	0.0	0.5	Aluminum	17000.000	---	16902.000	228000	mg/kg
BZ37-017	748815.670	2082625.998	0.0	0.5	Beryllium	1.500	---	0.966	921	mg/kg
BZ37-017	748815.670	2082625.998	0.0	0.5	Chromium	79.000	---	16.990	268	mg/kg
BZ37-017	748815.670	2082625.998	0.0	0.5	Copper	21.000	---	18.060	40900	mg/kg
BZ37-017	748815.670	2082625.998	0.0	0.5	Lithium	15.000	---	11.550	20400	mg/kg
BZ37-017	748815.670	2082625.998	0.0	0.5	Nickel	21.000	---	14.910	20400	mg/kg
BZ37-017	*748815.670*	*2082625.998*	*0.0*	*0.5*	*Uranium-234*	*2.263*	---	*2.253*	*300*	*pCi/g*
BZ37-017	748815.670	2082625.998	0.0	0.5	Uranium-238	2.263	---	2.000	351	pCi/g
BZ37-017	748815.670	2082625.998	0.0	0.5	Zinc	510.000	---	73.760	307000	mg/kg
BZ37-017	*748815.670*	*2082625.998*	*0.5*	*2.5*	*Uranium-234*	*4.351*	---	*2.640*	*300*	*pCi/g*
BZ37-017	748815.670	2082625.998	0.5	2.5	Uranium-235	0.168	---	0.120	8	pCi/g
BZ37-017	748815.670	2082625.998	0.5	2.5	Uranium-238	4.351	---	1.490	351	pCi/g
BZ37-018	748841.453	2082651.078	0.0	0.5	Aluminum	26000.000	---	16902.000	228000	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Beryllium	2.500	---	0.966	921	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Cadmium	3.500	---	1.612	962	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Chromium	90.000	---	16.990	268	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Copper	80.000	---	18.060	40900	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Iron	19000.000	---	18037.000	307000	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Lithium	18.000	---	11.550	20400	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Nickel	16.000	---	14.910	20400	mg/kg
BZ37-018	748841.453	2082651.078	0.0	0.5	Uranium, Total	18.000	---	5.980	2750	mg/kg
BZ37-018	*748841.453*	*2082651.078*	*0.0*	*0.5*	*Uranium-234*	*8.096*	---	*2.253*	*300*	*pCi/g*
BZ37-018	748841.453	2082651.078	0.0	0.5	Uranium-235	0.312	---	0.094	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Result Unit
BZ37-018	748841.453	2082651.078	0.0	0.5	Uranium-238	8.096	---	2.000	351	pCi/g
BZ37-018	*748841.453*	*2082651.078*	*0.5*	*2.5*	*Uranium-234*	*5.209*	---	*2.640*	*300*	*pCi/g*
BZ37-018	748841.453	2082651.078	0.5	2.5	Uranium-238	5.209	---	1.490	351	pCi/g
BZ37-019	748781.077	2082635.664	0.0	0.5	Aluminum	18000.000	---	16902.000	228000	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Beryllium	2.700	---	0.966	921	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Chromium	64.000	---	16.990	268	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Copper	29.000	---	18.060	40900	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Iron	24000.000	---	18037.000	307000	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Lead	56.000	---	54.620	1000	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Lithium	17.000	---	11.550	20400	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Nickel	22.000	---	14.910	20400	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Selenium	1.300	---	1.224	5110	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Uranium, Total	6.000	---	5.980	2750	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Uranium-235	0.151	---	0.094	8	pCi/g
BZ37-019	748781.077	2082635.664	0.0	0.5	Vanadium	50.000	---	45.590	7150	mg/kg
BZ37-019	748781.077	2082635.664	0.0	0.5	Zinc	400.000	---	73.760	307000	mg/kg
BZ37-019	748781.077	2082635.664	0.5	2.5	Uranium, Total	3.600	---	3.040	2750	mg/kg
BZ37-019	*748781.077*	*2082635.664*	*0.5*	*2.5*	*Uranium-234*	*5.541*	---	*2.640*	*300*	*pCi/g*
BZ37-019	748781.077	2082635.664	0.5	2.5	Uranium-235	0.251	---	0.120	8	pCi/g
BZ37-019	748781.077	2082635.664	0.5	2.5	Uranium-238	5.541	---	1.490	351	pCi/g
BZ37-020	748806.785	2082660.781	0.0	0.5	Lithium	12.000	---	11.550	20400	mg/kg
BZ37-020	748806.785	2082660.781	0.5	2.5	2-Butanone	15.000	5.7	---	192000000	µg/kg
BZ37-020	748806.785	2082660.781	0.5	2.5	Aluminum	36000.000	---	35373.170	228000	mg/kg
BZ37-020	748806.785	2082660.781	0.5	2.5	Tetrachloroethene	5.500	1.2	---	615000	µg/kg

WRW AL exceedances indicated in **bold**. *Italics* indicate the result was not determined by direct analysis but calculated based on the results of other analyses.

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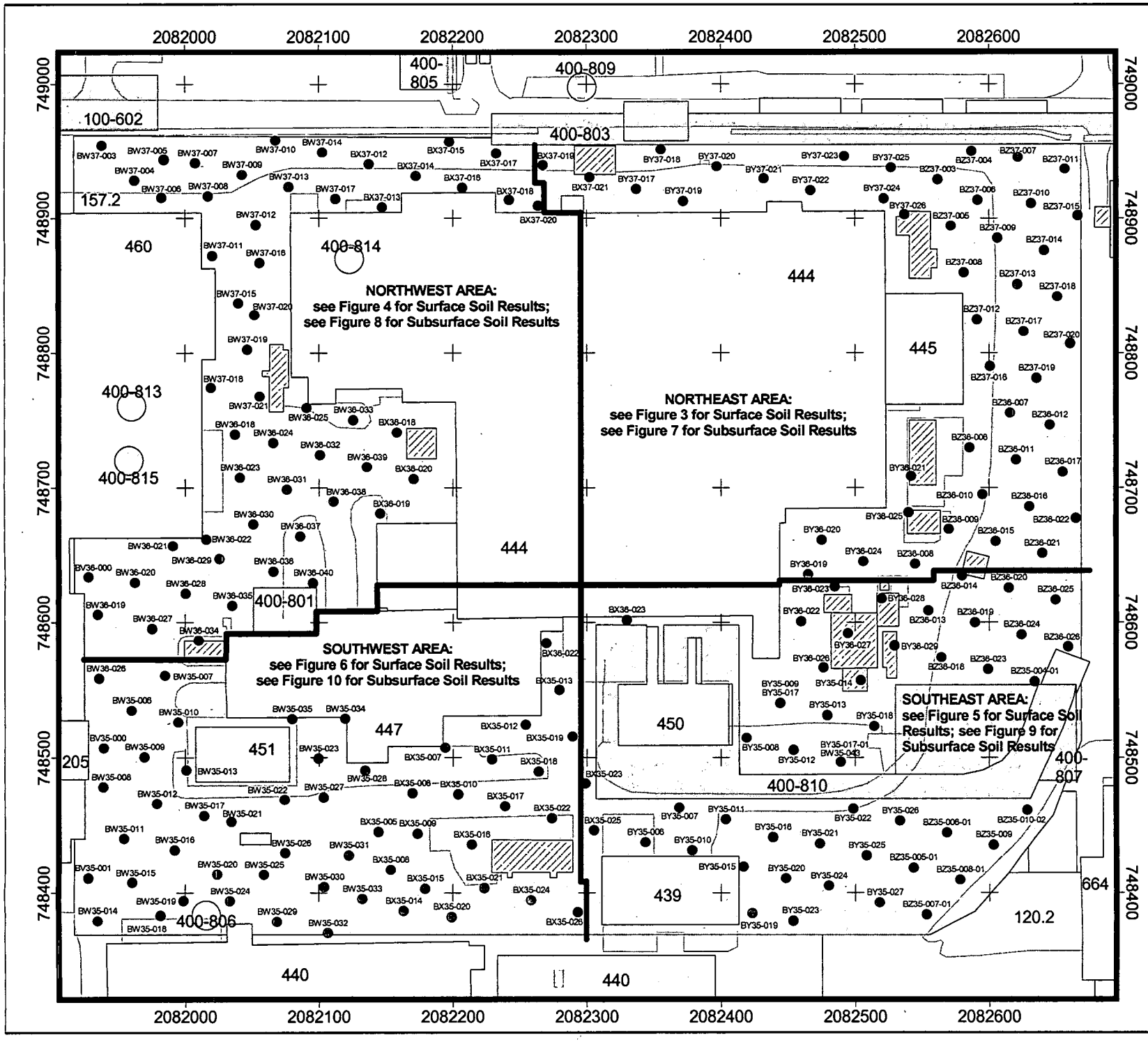

Figure 2
IHSS Group 400-6
Index Map for Surface and Subsurface Soil Results

KEY

- IHSS Group 400-6 Sampling Locations (results posted in Figures 3 through 10)
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSS
- PAC
- Paved Road

Building

- Demolished
- Standing

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Scale 1:1200
State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 3:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Surface Soil Northeast Area

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Data Summary Report for IHSS Group 400-6
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Figure 4:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Surface Soil Northwest Area

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(Ref: 04-RF-01075; KLW-029-04)

Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 5:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Surface Soil Southeast Area

File: w:\projects\fy2004\400-6\400-6_dsr_surf_final.apr

September 30, 2004

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U.S. DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

88

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(Ref: 04-RF-01075; KLW-029-04)

Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 6:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Surface Soil Southwest Area

File: w:\projects\fy2004\400-6\400-6_dsr_surf_final.apr

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Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 7:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Subsurface Soil Northeast Area

File: w:\projects\fy2004\400-6\400-6_dsr_sub_final.apr

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Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 8:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Subsurface Soil Northwest Area

File: w:\projects\fy2004\400-6\400-6_dsr_sub_final.apr

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Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 9:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Subsurface Soil Southeast Area

File: w:\projects\fy2004\400-6\400-6_dsr_sub_final.apr

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Data Summary Report for IHSS Group 400-6
IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 10:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations of RLs – Subsurface Soil Southwest Area

File: w:\projects\fy2004\400-6\400-6_dsr_sub_final.apr

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interval. Although benzo(a)pyrene was also detected at nearby sampling locations BY35-012 and BY36-026, those detections were much lower than the detection at BY35-008 and were substantially below the WRW AL of 3,490 µg/kg. Dibenz(a,h)anthracene was detected at BY35-012; however, the detected concentration was below the WRW AL and an order of magnitude lower than the detected concentration at BY35-008. Polycyclic aromatic hydrocarbon (PAH) compounds such as benzo(a)pyrene and dibenz(a,h)anthracene are commonly associated with asphalt and roofing tar and may also be products of incomplete combustion of organic matter. Based on an inspection of IHSS Group 400-6 in August 2004, much of the site is or has been paved with asphalt. Although sampling locations BY35-008 and BY35-012 are not paved, asphalt pavement is present nearby. In addition, a piece of equipment that appeared to have been used for applying a tar-like coating to objects was being temporarily stored in the area during the August 2004 inspection. It was not clear whether the equipment had been associated with Building 444 or whether it had ever been used in the area where it was seen. Data collected throughout IHSS Group 400-6 clearly indicate that the above-mentioned PAH exceedances at BY35-008 are isolated to that location.

The data, retrieved from the RFETS Soil Water Database (SWD) on September 28, 2004, are provided on the enclosed compact disc (CD). The CD contains standardized real and quality control (QC) data, including Chemical Abstracts Service (CAS) numbers, analyte names, and units.

2.3 SORs

RFCA sums of ratios (SORs) were calculated for the IHSS Group 400-6 sampling locations. SOR calculations were based on accelerated action analytical data for the analytes of concern with activities greater than background means plus two standard deviations in samples collected from depths less than 3 ft. Radionuclide (Rad) and nonradionuclide (NonRad) SORs are calculated separately. Table 4 presents the SORs. All SORs are less than 1.

Table 4
RFCA Radionuclide and Nonradionuclide SORs

Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BV35-001	0.0	0.5	Rad	0.0421
BV35-001	0.5	2.5	Rad	0.0049
BV36-000	0.0	0.5	Rad	0.0670
BV36-000	0.5	2.5	Rad	0.0462
BW35-006	0.0	0.5	Rad	0.0500
BW35-006	0.5	2.5	Rad	0.0483
BW35-007	0.0	0.5	Rad	0.0532
BW35-007	0.5	2.5	Rad	0.0633
BW35-008	0.0	0.5	Rad	0.0691

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BW35-008	0.5	2.5	Rad	0.0481
BW35-009	0.5	2.5	Rad	0.0062
BW35-010	0.5	1.0	Rad	0.0247
BW35-011	0.0	0.5	Rad	0.0385
BW35-011	0.5	2.5	Rad	0.0067
BW35-012	0.5	1.0	Rad	0.0260
BW35-014	0.5	2.5	Rad	0.0207
BW35-015	0.0	0.5	Rad	0.0556
BW35-015	0.5	2.5	Rad	0.0562
BW35-016	0.0	0.5	Rad	0.0202
BW35-016	0.5	2.5	Rad	0.0044
BW35-017	0.0	0.5	Rad	0.0252
BW35-017	0.5	2.5	Rad	0.0568
BW35-018	0.0	0.5	Rad	0.0254
BW35-018	0.5	2.5	Rad	0.0190
BW35-019	0.0	0.5	Rad	0.0589
BW35-019	0.5	2.5	Rad	0.0468
BW35-020	0.5	2.5	Rad	0.0354
BW35-021	0.0	0.5	Rad	0.0198
BW35-022	0.0	0.5	Rad	0.0517
BW35-022	0.5	2.5	Rad	0.0542
BW35-023	0.0	0.5	Nonrad	0.1007
BW35-024	0.0	0.5	Nonrad	0.1306
BW35-024	0.0	0.5	Rad	0.0457
BW35-024	0.5	2.5	Rad	0.0303
BW35-025	0.0	0.5	Rad	0.0154
BW35-025	0.5	2.5	Rad	0.0175
BW35-026	0.0	0.5	Rad	0.0628
BW35-026	0.5	2.5	Rad	0.0591
BW35-027	0.0	0.5	Rad	0.0274
BW35-027	0.5	2.5	Rad	0.0527
BW35-028	0.0	0.5	Rad	0.0511
BW35-028	0.5	2.5	Rad	0.0521
BW35-029	0.5	2.5	Rad	0.0370
BW35-030	0.0	0.5	Rad	0.0153
BW35-030	0.5	2.5	Rad	0.0158
BW35-031	0.5	2.5	Rad	0.0053
BW35-032	0.0	0.5	Rad	0.0142
BW35-032	0.5	2.5	Rad	0.0202
BW35-034	0.5	1.5	Rad	0.0047
BW35-035	0.0	0.5	Rad	0.0201
BW35-035	0.5	1.5	Rad	0.0272
BW35-043	0.0	0.5	Rad	0.0157
BW35-043	0.5	2.5	Rad	0.0251

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BW36-018	0.0	0.5	Rad	0.0560
BW36-018	0.5	2.5	Rad	0.0595
BW36-019	0.0	0.5	Rad	0.0181
BW36-019	0.5	2.5	Rad	0.0045
BW36-020	0.0	0.5	Rad	0.0534
BW36-021	0.0	0.5	Rad	0.0319
BW36-021	0.5	2.5	Rad	0.0247
BW36-022	0.0	0.5	Rad	0.0525
BW36-022	0.5	2.5	Rad	0.0503
BW36-023	0.0	0.5	Nonrad	0.4478
BW36-023	0.5	2.5	Rad	0.0171
BW36-024	0.0	0.5	Rad	0.0600
BW36-024	0.5	2.5	Rad	0.0043
BW36-025	0.0	0.5	Nonrad	0.1269
BW36-025	0.0	0.5	Rad	0.0672
BW36-025	0.5	2.5	Rad	0.0439
BW36-026	0.0	0.5	Rad	0.0011
BW36-026	0.5	2.5	Rad	0.0026
BW36-027	0.0	0.5	Rad	0.0247
BW36-027	0.5	2.5	Rad	0.0397
BW36-028	0.0	0.5	Rad	0.0565
BW36-029	0.5	2.5	Rad	0.0253
BW36-030	0.0	0.5	Rad	0.0595
BW36-030	0.5	2.5	Rad	0.0542
BW36-031	0.0	0.5	Rad	0.0193
BW36-031	0.5	2.5	Rad	0.0120
BW36-032	0.0	0.5	Rad	0.0417
BW36-032	0.5	2.5	Rad	0.0445
BW36-033	0.0	0.5	Nonrad	0.2761
BW36-033	0.5	2.5	Rad	0.0052
BW36-034	0.0	0.5	Nonrad	0.1940
BW36-034	0.0	0.5	Rad	0.0511
BW36-034	0.5	2.5	Rad	0.0663
BW36-035	0.0	0.5	Rad	0.0133
BW36-036	0.0	0.5	Rad	0.0200
BW36-036	0.5	2.5	Rad	0.0051
BW36-037	0.5	1.0	Rad	0.0176
BW36-038	0.0	0.5	Nonrad	0.1231
BW36-038	0.0	0.5	Rad	0.0258
BW36-038	0.5	2.5	Rad	0.0582
BW36-039	0.0	0.5	Nonrad	0.3000
BW36-039	0.0	0.5	Rad	0.0147
BW37-003	0.0	0.5	Rad	0.0146
BW37-003	0.5	2.5	Rad	0.0274

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BW37-004	0.0	0.5	Rad	0.0186
BW37-006	0.0	0.5	Rad	0.0519
BW37-007	0.0	0.5	Rad	0.0155
BW37-007	0.5	2.5	Rad	0.0235
BW37-008	0.0	0.5	Rad	0.0217
BW37-008	0.5	2.5	Rad	0.0485
BW37-009	0.0	0.5	Rad	0.0432
BW37-009	0.5	2.5	Rad	0.0048
BW37-010	0.0	0.5	Rad	0.0137
BW37-010	0.5	2.5	Rad	0.0296
BW37-011	0.5	2.5	Rad	0.0375
BW37-013	0.0	0.5	Rad	0.0142
BW37-014	0.5	2.5	Rad	0.0473
BW37-016	0.0	0.5	Rad	0.0434
BW37-016	0.5	2.5	Rad	0.0496
BW37-017	0.0	0.5	Rad	0.0516
BW37-017	0.5	2.5	Rad	0.0474
BW37-018	0.5	2.5	Rad	0.0555
BW37-019	0.0	0.5	Rad	0.0635
BW37-019	0.5	2.5	Rad	0.0470
BW37-020	0.0	0.5	Nonrad	0.1082
BW37-020	0.0	0.5	Rad	0.0182
BW37-021	0.0	0.5	Rad	0.0638
BW37-021	0.5	2.5	Rad	0.0180
BX35-005	0.0	0.5	Rad	0.0132
BX35-006	0.0	0.5	Rad	0.0480
BX35-006	0.5	1.5	Rad	0.0662
BX35-007	0.0	0.5	Rad	0.0294
BX35-008	0.0	0.5	Rad	0.0221
BX35-008	0.5	2.5	Rad	0.0247
BX35-009	0.0	0.5	Rad	0.0299
BX35-010	0.0	0.5	Rad	0.0194
BX35-010	0.5	2.1	Rad	0.0502
BX35-013	0.0	0.5	Rad	0.0311
BX35-013	0.5	1.3	Rad	0.0277
BX35-014	0.0	0.5	Rad	0.0566
BX35-014	0.5	2.5	Rad	0.0543
BX35-015	0.0	0.5	Rad	0.0559
BX35-015	0.5	2.5	Rad	0.0599
BX35-016	0.0	0.5	Rad	0.0156
BX35-016	0.5	2.5	Rad	0.0561
BX35-017	0.0	0.5	Rad	0.0557
BX35-017	0.5	2.5	Rad	0.0275
BX35-018	0.0	0.5	Rad	0.0593

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BX35-018	0.5	1.5	Rad	0.0487
BX35-020	0.5	2.5	Rad	0.0048
BX35-021	0.0	0.5	Rad	0.0306
BX35-023	0.5	2.5	Rad	0.0111
BX35-024	0.0	0.5	Rad	0.0272
BX35-026	0.0	0.5	Nonrad	0.1194
BX36-018	0.0	0.5	Rad	0.0241
BX36-018	0.5	2.5	Rad	0.0480
BX36-019	0.5	2.5	Rad	0.0585
BX36-022	0.0	0.5	Rad	0.0605
BX36-022	0.5	2.5	Rad	0.0487
BX36-023	0.5	2.5	Rad	0.0212
BX37-012	0.0	0.5	Rad	0.0674
BX37-012	0.5	2.5	Rad	0.0598
BX37-014	0.0	0.5	Rad	0.0546
BX37-014	0.5	2.5	Rad	0.0221
BX37-015	0.0	0.5	Rad	0.0555
BX37-015	0.5	2.5	Rad	0.0621
BX37-016	0.0	0.5	Rad	0.0655
BX37-017	0.5	2.5	Rad	0.0532
BX37-018	0.0	0.5	Rad	0.0420
BX37-018	0.5	2.5	Rad	0.0261
BX37-019	0.0	0.5	Rad	0.0375
BX37-019	0.5	2.5	Rad	0.0386
BX37-020	0.0	0.5	Rad	0.0569
BX37-021	0.0	0.5	Rad	0.0390
BX37-021	0.5	2.5	Rad	0.0405
BY35-006	0.0	0.5	Nonrad	0.1418
BY35-006	0.0	0.5	Rad	0.0503
BY35-006	0.5	1.0	Rad	0.0529
BY35-007	0.0	0.5	Rad	0.0458
BY35-007	0.5	2.0	Rad	0.0058
BY35-010	0.0	0.5	Rad	0.0546
BY35-010	0.5	1.5	Rad	0.0173
BY35-011	0.0	0.5	Rad	0.0139
BY35-012	0.0	0.5	Nonrad	0.3882
BY35-012	0.0	0.5	Rad	0.0757
BY35-012	0.5	2.5	Rad	0.0297
BY35-013	0.0	0.5	Rad	0.0015
BY35-013	0.5	2.5	Rad	0.0043
BY35-014	0.0	0.5	Rad	0.0526
BY35-014	0.5	1.5	Rad	0.0181
BY35-015	0.0	0.5	Nonrad	0.1045
BY35-015	0.0	0.5	Rad	0.0175

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SQR
BY35-017	0.0	0.5	Rad	0.0177
BY35-017	0.5	1.5	Rad	0.0320
BY35-019	0.0	0.5	Rad	0.0567
BY35-019	0.5	2.5	Rad	0.0217
BY35-020	0.5	2.5	Rad	0.0505
BY35-021	0.0	0.5	Rad	0.0523
BY35-022	0.0	0.5	Rad	0.0511
BY35-022	0.5	2.5	Rad	0.0554
BY35-024	0.0	0.5	Rad	0.0174
BY35-025	0.0	0.5	Rad	0.0462
BY35-026	0.0	0.5	Rad	0.0221
BY35-027	0.5	2.5	Rad	0.0457
BY36-019	0.0	0.5	Rad	0.0599
BY36-019	0.5	2.5	Rad	0.0060
BY36-020	0.0	0.5	Rad	0.0450
BY36-020	0.5	2.5	Rad	0.0582
BY36-021	0.0	0.5	Nonrad	0.8475
BY36-021	0.0	0.5	Rad	0.0601
BY36-021	0.5	2.5	Rad	0.0638
BY36-022	0.0	0.5	Rad	0.0063
BY36-022	0.5	2.5	Rad	0.0734
BY36-023	0.0	0.5	Rad	0.0655
BY36-023	0.5	2.5	Rad	0.0495
BY36-024	0.5	2.5	Rad	0.0565
BY36-025	0.0	0.5	Rad	0.0445
BY36-025	0.5	2.5	Rad	0.0153
BY36-027	0.0	0.5	Rad	0.0375
BY36-027	0.5	1.5	Rad	0.0874
BY36-028	0.0	0.5	Rad	0.0789
BY36-028	0.5	2.5	Rad	0.1080
BY36-029	0.0	0.5	Rad	0.0620
BY36-029	0.5	1.0	Rad	0.0058
BY37-017	0.5	2.5	Rad	0.0478
BY37-018	0.0	0.5	Rad	0.0186
BY37-018	0.5	2.5	Rad	0.0179
BY37-019	0.0	0.5	Rad	0.0385
BY37-019	0.5	2.5	Rad	0.0477
BY37-020	0.5	2.5	Rad	0.0281
BY37-021	0.0	0.5	Rad	0.0498
BY37-021	0.5	2.5	Rad	0.0153
BY37-022	0.5	2.5	Rad	0.0291
BY37-023	0.0	0.5	Nonrad	0.1231
BY37-023	0.0	0.5	Rad	0.0293
BY37-023	0.5	2.5	Rad	0.0061

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BY37-024	0.5	2.5	Rad	0.0464
BY37-025	0.0	0.5	Rad	0.0603
BY37-025	0.5	2.5	Rad	0.0454
BY37-026	0.0	0.5	Nonrad	0.1045
BY37-026	0.0	0.5	Rad	0.0528
BY37-026	0.5	1.6	Rad	0.0532
BZ35-004-01	0.0	0.5	Rad	0.0370
BZ35-004-01	0.5	2.5	Rad	0.0187
BZ35-005-01	0.0	0.5	Rad	0.0214
BZ35-005-01	0.5	2.5	Rad	0.0207
BZ35-006-01	0.0	0.5	Rad	0.0466
BZ35-006-01	0.5	2.5	Rad	0.0521
BZ35-007-01	0.0	0.5	Rad	0.0160
BZ35-007-01	0.5	2.5	Rad	0.0627
BZ35-008-01	0.0	0.5	Rad	0.0466
BZ35-008-01	0.5	2.5	Rad	0.0616
BZ35-009	0.0	0.5	Nonrad	0.2873
BZ35-009	0.0	0.5	Rad	0.0205
BZ35-009	0.5	2.5	Rad	0.0454
BZ35-010-02	0.0	0.5	Rad	0.0544
BZ35-010-02	0.5	2.5	Rad	0.0380
BZ36-006	0.0	0.5	Rad	0.0241
BZ36-007	0.0	0.5	Nonrad	0.1082
BZ36-007	0.0	0.5	Rad	0.0547
BZ36-007	0.5	2.5	Rad	0.0559
BZ36-008	0.5	2.5	Rad	0.0190
BZ36-009	0.0	0.5	Rad	0.0292
BZ36-009	0.5	2.5	Rad	0.0603
BZ36-010	0.0	0.5	Rad	0.0625
BZ36-010	0.5	2.5	Rad	0.0501
BZ36-011	0.0	0.5	Rad	0.0062
BZ36-011	0.5	2.0	Rad	0.0070
BZ36-012	0.0	0.5	Nonrad	0.1306
BZ36-012	0.0	0.5	Rad	0.0370
BZ36-013	0.0	0.5	Rad	0.0253
BZ36-013	0.5	2.5	Rad	0.0168
BZ36-014	0.0	0.5	Rad	0.0228
BZ36-014	0.5	2.5	Rad	0.0203
BZ36-015	0.0	0.5	Rad	0.0683
BZ36-015	0.5	2.5	Rad	0.0621
BZ36-016	0.0	0.5	Nonrad	0.1306
BZ36-016	0.0	0.5	Rad	0.0734
BZ36-016	0.5	2.5	Rad	0.0459
BZ36-018	0.0	0.5	Rad	0.0576

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BZ36-018	0.5	2.5	Rad	0.0552
BZ36-019	0.5	2.5	Rad	0.0273
BZ36-020	0.0	0.5	Rad	0.0580
BZ36-020	0.5	2.5	Rad	0.0530
BZ36-021	0.0	0.5	Nonrad	0.1007
BZ36-021	0.0	0.5	Rad	0.0546
BZ36-021	0.5	2.5	Rad	0.0614
BZ36-022	0.0	0.5	Rad	0.0364
BZ36-022	0.5	2.5	Rad	0.0212
BZ36-023	0.0	0.5	Rad	0.0598
BZ36-023	0.5	2.5	Rad	0.0048
BZ36-024	0.0	0.5	Nonrad	0.1194
BZ36-024	0.0	0.5	Rad	0.0129
BZ36-024	0.5	2.5	Rad	0.0286
BZ36-025	0.0	0.5	Rad	0.0032
BZ36-026	0.5	2.2	Rad	0.0052
BZ37-003	0.0	0.5	Rad	0.0151
BZ37-003	0.5	2.5	Rad	0.0223
BZ37-004	0.0	0.5	Rad	0.0586
BZ37-004	0.5	2.5	Rad	0.0043
BZ37-005	0.0	0.5	Rad	0.0401
BZ37-005	0.5	1.5	Rad	0.0049
BZ37-006	0.0	0.5	Rad	0.0560
BZ37-006	0.5	2.5	Rad	0.0673
BZ37-007	0.5	2.5	Rad	0.0553
BZ37-008	0.0	0.5	Rad	0.0473
BZ37-008	0.5	2.5	Rad	0.0492
BZ37-009	0.0	0.5	Rad	0.0633
BZ37-009	0.5	2.5	Rad	0.0551
BZ37-010	0.5	2.5	Rad	0.0476
BZ37-011	0.0	0.5	Rad	0.0350
BZ37-011	0.5	2.5	Rad	0.0671
BZ37-012	0.0	0.5	Rad	0.0327
BZ37-012	0.5	2.0	Rad	0.0560
BZ37-013	0.0	0.5	Rad	0.0596
BZ37-013	0.5	2.5	Rad	0.0641
BZ37-014	0.0	0.5	Rad	0.0170
BZ37-015	0.0	0.5	Rad	0.0511
BZ37-017	0.0	0.5	Nonrad	0.2948
BZ37-017	0.0	0.5	Rad	0.0140
BZ37-017	0.5	2.5	Rad	0.0479
BZ37-018	0.0	0.5	Nonrad	0.3358
BZ37-018	0.0	0.5	Rad	0.0891
BZ37-018	0.5	2.5	Rad	0.0322

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Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	Rad or NonRad?	SOR
BZ37-019	0.0	0.5	Nonrad	0.2388
BZ37-019	0.0	0.5	Rad	0.0189
BZ37-019	0.5	2.5	Rad	0.0656

Subsurface soil SORs for nonradionuclides are not presented because subsurface soil concentrations are evaluated as part of the Subsurface Soil Risk Screen (SSRS) in Section 3.0.

2.4 Summary Statistics

Summary statistics for analytes detected above background means plus two standard deviations or RLs were calculated by analyte for the IHSS Group 400-6 sampling locations, as presented in Tables 5 and 6 for surface and subsurface soil, respectively. For metals, only detections greater than background means plus two standard deviations were used to calculate the detection frequency and average concentration. For other analytes, all detections above the RL are included.

3.0 SUBSURFACE SOIL RISK SCREEN

The SSRS follows the steps identified on Figure 3 in Attachment 5 of RFCA (DOE et al. 2003).

Screen 1 – Are the COC concentrations below RFCA Table 3 WRW Soil ALs?

No. Accelerated action data for IHSS Group 400-6 include three exceedances for arsenic ranging from 23 to 24 mg/kg, and one exceedance each for benzo(a)pyrene and dibenz(a,h)anthracene (15,000 and 3,600 µg/kg, respectively). All of these exceedances occurred in the B sampling interval (0.5 to 2.5 ft below ground surface [bgs]).

Screen 2 – Is there a potential for subsurface soil to become surface soil (landslide and erosion areas identified on Figure 1)?

No. IHSS Group 400-6 is not in a high-erosion area according to RFCA Attachment 5, Figure 1. Additionally, IHSS Group 400-6 will not be excavated as part of the Site land reconfiguration.

Screen 3 – Does subsurface soil radiological contamination exceed criteria in Section 5.3 and Attachment 14?

No. As shown in Table 3, there are no subsurface soil exceedances for radionuclides in this IHSS Group.

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Table 5
Surface Soil Summary Statistics

Analyte	Total Number of Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Background Mean Plus 2SD	WRW AL	Units
4,4'-DDD	10	20.0%	6.750	10.000	---	143000	µg/kg
4,4'-DDE	10	10.0%	7.200	7.200	---	101000	µg/kg
4,4'-DDT	10	10.0%	9.100	9.100	---	100000	µg/kg
Acenaphthene	16	37.5%	134.000	290.000	---	40800000	µg/kg
alpha-BHC	10	10.0%	7.900	7.900	---	5240	µg/kg
Aluminum	200	25.0%	24240.000	46000.000	16902.000	228000	mg/kg
Americium-241	200	1.0%	0.678	1.270	0.023	76	pCi/g
Anthracene	16	37.5%	151.333	320.000	---	204000000	µg/kg
Antimony	200	6.5%	0.797	2.200	0.470	409	mg/kg
Aroclor-1254	11	9.1%	27.000	27.000	---	12400	µg/kg
Aroclor-1260	11	27.3%	106.000	280.000	---	12400	µg/kg
Arsenic	200	3.0%	12.500	17.000	10.090	22.2	mg/kg
Barium	200	1.5%	200.000	290.000	141.260	26400	mg/kg
Benzo(a)anthracene	16	31.3%	470.800	1000.000	---	34900	µg/kg
Benzo(a)pyrene	16	31.3%	497.400	1100.000	---	3490	µg/kg
Benzo(b)fluoranthene	16	25.0%	397.250	890.000	---	34900	µg/kg
Benzo(k)fluoranthene	16	25.0%	435.000	860.000	---	349000	µg/kg
Beryllium	200	24.5%	1.495	5.400	0.966	921	mg/kg
bis(2-Ethylhexyl)phthalate	16	12.5%	340.000	480.000	---	1970000	µg/kg
Cadmium	200	3.0%	2.967	6.100	1.612	962	mg/kg
Chromium	200	33.5%	29.642	120.000	16.990	268	mg/kg
Chrysene	16	37.5%	500.833	1300.000	---	3490000	µg/kg
Cobalt	200	1.5%	14.667	18.000	10.910	1550	mg/kg
Copper	200	25.5%	31.471	80.000	18.060	40900	mg/kg
Dibenz(a,h)anthracene	16	6.3%	99.000	99.000	---	3490	µg/kg
Dibenzofuran	16	12.5%	74.500	85.000	---	2950000	µg/kg
Dieldrin	10	10.0%	8.200	8.200	---	1720	µg/kg
Di-n-octylphthalate	16	6.3%	280.000	280.000	---	14700000	µg/kg
Endosulfan I	10	10.0%	7.400	7.400	---	4420000	µg/kg
Endosulfan II	10	10.0%	9.900	9.900	---	4420000	µg/kg
Endosulfan sulfate	10	20.0%	8.250	11.000	---	4420000	µg/kg
Endrin	10	10.0%	17.000	17.000	---	221000	µg/kg
Fluoranthene	16	43.8%	960.429	2500.000	---	27200000	µg/kg
Fluorene	16	37.5%	98.333	210.000	---	40800000	µg/kg
gamma-BHC	10	10.0%	8.300	8.300	---	25500	µg/kg
Heptachlor epoxide	10	10.0%	7.200	7.200	---	3030	µg/kg
Indeno(1,2,3-cd)pyrene	16	25.0%	340.000	610.000	---	34900	µg/kg
Iron	200	12.0%	22875.000	45000.000	18037.000	307000	mg/kg
Lead	200	3.0%	230.500	590.000	54.620	1000	mg/kg
Lithium	200	18.5%	15.595	43.000	11.550	20400	mg/kg
Manganese	200	2.5%	480.000	550.000	365.080	3480	mg/kg
Mercury	197	4.6%	0.239	0.550	0.134	25200	mg/kg

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Analyte	Total Number of Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Background Mean Plus 2SD	WRW AL	Units
Methoxychlor	10	10.0%	12.000	12.000	---	5110000	µg/kg
Nickel	200	23.5%	26.745	280.000	14.910	20400	mg/kg
Phenol	16	6.3%	130.000	130.000	---	613000000	µg/kg
Plutonium-239/240	198	2.0%	0.350	0.552	0.066	50	pCi/g
Pyrene	16	37.5%	991.667	2400.000	---	22100000	µg/kg
Selenium	200	1.0%	1.350	1.400	1.224	5110	mg/kg
Strontium	200	5.5%	80.000	190.000	48.940	613000	mg/kg
Tin	200	1.5%	5.800	7.400	2.900	613000	mg/kg
Uranium, Total	200	3.5%	14.657	35.000	5.980	2750	mg/kg
Uranium-234	200	47.5%	4.133	8.096	2.253	300	pCi/g
Uranium-235	200	64.0%	0.204	0.439	0.094	8	pCi/g
Uranium-238	200	50.5%	4.010	8.096	2.000	351	pCi/g
Vanadium	200	7.5%	53.600	75.000	45.590	7150	mg/kg
Zinc	200	22.5%	164.022	630.000	73.760	307000	mg/kg

Table 6
Subsurface Soil Summary Statistics

Analyte	Total Number of Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Background Mean Plus 2SD	WRW AL	Unit
1,1,1-Trichloroethane	248	1.2%	8.910	13.700	---	79700000	µg/kg
1,1-Dichloroethene	248	0.4%	7.980	7.980	---	17000	µg/kg
2-Butanone	248	0.8%	10.750	15.000	---	192000000	µg/kg
2-Methylnaphthalene	20	10.0%	731.000	1400.000	---	20400000	µg/kg
4,4'-DDD	14	14.3%	5.900	7.600	---	143000	µg/kg
4,4'-DDE	14	14.3%	2.630	4.800	---	101000	µg/kg
4,4'-DDT	14	7.1%	6.800	6.800	---	100000	µg/kg
4-Methyl-2-pentanone	248	0.4%	11.000	11.000	---	16400000	µg/kg
4-Methylphenol	19	5.3%	95.000	95.000	---	3690000	µg/kg
Acenaphthene	20	20.0%	2137.500	7900.000	---	40800000	µg/kg
Acetone	248	2.8%	46.714	160.000	---	102000000	µg/kg
alpha-BHC	14	7.1%	6.800	6.800	---	5240	µg/kg
Aluminum	247	9.7%	42916.667	61000.000	35373.170	228000	mg/kg
Americium-241	247	2.0%	0.277	0.725	0.020	76	pCi/g
Anthracene	20	20.0%	1912.250	6900.000	---	204000000	µg/kg
Aroclor-1254	15	6.7%	7.300	7.300	---	12400	µg/kg
Aroclor-1260	15	20.0%	43.333	87.000	---	12400	µg/kg
Arsenic	**247**	**5.7%**	**18.357**	**24.000**	**13.140**	**22.2**	**mg/kg**
Barium	247	0.4%	420.000	420.000	289.380	26400	mg/kg
Benzo(a)anthracene	20	30.0%	3041.167	16000.000	---	34900	µg/kg
Benzo(a)pyrene	**20**	**25.0%**	**3486.000**	**15000.000**	**---**	**3490**	**µg/kg**
Benzo(b)fluoranthene	20	25.0%	2608.000	11000.000	---	34900	µg/kg
Benzo(k)fluoranthene	20	25.0%	3212.000	14000.000	---	349000	µg/kg

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Analyte	Total Number of Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Background Mean Plus 2SD	WRW AL	Unit
bis(2-Ethylhexyl)phthalate	20	5.0%	240.000	240.000	---	1970000	µg/kg
Cadmium	247	1.6%	2.800	3.700	1.700	962	mg/kg
Chromium	247	0.8%	125.000	130.000	68.270	268	mg/kg
Chrysene	20	30.0%	3618.000	19000.000	---	3490000	µg/kg
Cobalt	247	0.4%	41.000	41.000	29.040	1550	mg/kg
Copper	247	2.8%	60.429	110.000	38.210	40900	mg/kg
Dibenz(a,h)anthracene	**20**	**10.0%**	**2000.000**	**3600.000**	**---**	**3490**	**µg/kg**
Dibenzofuran	20	10.0%	1755.000	3300.000	---	2950000	µg/kg
Dieldrin	14	7.1%	6.400	6.400	---	1720	µg/kg
Endosulfan I	14	7.1%	3.600	3.600	---	4420000	µg/kg
Endosulfan II	14	7.1%	5.100	5.100	---	4420000	µg/kg
Endosulfan sulfate	14	14.3%	3.085	5.300	---	4420000	µg/kg
Endrin	14	7.1%	7.500	7.500	---	221000	µg/kg
Ethylbenzene	248	0.4%	10.500	10.500	---	4250000	µg/kg
Fluoranthene	20	25.0%	9038.000	40000.000	---	27200000	µg/kg
Fluorene	20	10.0%	3385.000	6300.000	---	40800000	µg/kg
Heptachlor epoxide	14	7.1%	4.200	4.200	---	3030	µg/kg
Indeno(1,2,3-cd)pyrene	20	25.0%	1650.000	6900.000	---	34900	µg/kg
Isophorone	20	5.0%	840.000	840.000	---	29100000	µg/kg
Lead	247	4.0%	39.200	59.000	24.970	1000	mg/kg
Manganese	247	1.6%	1092.500	1400.000	901.620	3480	mg/kg
Methylene chloride	248	0.8%	1.060	1.200	---	2530000	µg/kg
Naphthalene	235	8.9%	18.078	82.600	---	3090000	µg/kg
Nickel	247	0.4%	67.000	67.000	62.210	20400	mg/kg
Phenol	19	5.3%	98.000	98.000	---	613000000	µg/kg
Plutonium-239/240	245	1.6%	0.604	1.012	0.020	50	pCi/g
Pyrene	20	30.0%	8538.333	46000.000	---	22100000	µg/kg
Silver	247	1.2%	102.667	110.000	24.540	5110	mg/kg
Tetrachloroethene	248	6.5%	41.589	435.000	---	615000	µg/kg
Toluene	248	1.2%	4.417	6.460	---	31300000	µg/kg
Trichloroethene	248	0.8%	1.950	2.300	---	19600	µg/kg
Uranium, Total	247	4.0%	7.370	21.000	3.040	2750	mg/kg
Uranium-234	247	40.5%	4.218	11.110	2.640	300	pCi/g
Uranium-235	247	55.5%	0.199	0.340	0.120	8	pCi/g
Uranium-238	247	58.7%	3.487	11.110	1.490	351	pCi/g
Vanadium	247	1.6%	100.250	110.000	88.490	7150	mg/kg
Xylene	248	2.0%	30.040	90.200	---	2040000	µg/kg
Zinc	247	2.8%	281.429	400.000	139.100	307000	mg/kg

Bold indicates analytes detected above the WRW AL.

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Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedance of the surface water standards?

Contaminant migration via erosion of contaminated soil or advective transport of contaminants in groundwater are two possible pathways by which contamination originating in IHSS Group 400-6 could hypothetically enter surface water. As indicated above, soil erosion is not considered an issue for this site and no excavation will occur in this area as part of the final land reconfiguration. The potential for contaminant migration into surface water via erosion is nevertheless examined below along with the potential for a groundwater pathway to surface water. Based on available data, site conditions do not favor either pathway.

With regard to soil erosion, both natural drainage and the storm drain system convey runoff from the area into both the Walnut Creek and Woman Creek drainages. In general, runoff originating in the southwestern portion of the area flows south toward Woman Creek, while runoff from the remainder of the area flows toward Walnut Creek. As mapped, the drainage divide between the two drainages passes through Building 444 (DOE 2003a). The storm drain system also channels water from the area into both drainages. The nearest RFCA Points of Evaluation (POEs) are GS10 on Walnut Creek and SW027 on Woman Creek. Water quality data for these locations are discussed below.

Water quality samples collected at GS10 have a history of exceeding both the 0.15 picocurie per liter (pCi/L) RFCA standard for plutonium-239/240 and the 0.15 pCi/L RFCA standard for americium-241. Source evaluations conducted from 1997 through 2001 did not definitively identify the source of the plutonium and americium detected at GS10; however, suspect areas were identified and IHSS Group 400-6 was not among them. This conclusion is supported by the lack of plutonium-239/240 and americium-241 exceedances in surface and subsurface soil in IHSS Group 400-6.

Water quality data for SW027 are typically below RFCA surface water standards; however, infrequent plutonium-239/240 exceedances have occurred. SW027 receives runoff from a large portion of the IA. Potential sources of plutonium-239/240 at SW027 have not been formally evaluated; however, SW027 receives runoff from the 903 Pad area, a known source of actinide contamination. The absence of plutonium-239/240 exceedances at IHSS Group 400-6 supports the conclusion that IHSS Group 400-6 is not a source of the plutonium-239/240 detected at SW027.

Regarding a possible groundwater pathway to surface water, Table 7 presents exceedances in groundwater sampled from wells within IHSS Group 400-6, as well as in areas directly up- and downgradient from IHSS Group 400-6. Based on the potentiometric surface map presented in the Integrated Monitoring Plan (IMP) FY03 Background Document (DOE 2003c), groundwater in IHSS Group 400-6 flows to the east and southeast, generally toward Woman Creek. Wells located immediately upgradient of IHSS Group 400-6 include 10198, 10598, 40199, and P416289. Monitoring wells P419689, 40099, 40299, 40499, and 41299 are all located within IHSS

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Table 7
Groundwater Exceedances Summary

Area	Well Location Code	Analyte Group	Analyzed Fraction	Analyte	Number of Results	Detections Min Result	Detections Max Result	Nondetections Min Result	Nondetections Max Result	Back-ground	Tier I AL	Tier II AL	Unit
Wells Up-gradi-ent of IHSS Group 400-6	10198	Radionuclides	Total	**Uranium-238**	**1**	**251**	**251**	-----	-----	**66.3**	**76.8**	**0.77**	**pCi/L**
	10598	Metals	Dissolved	Thallium	1	0.0114	0.0114	-----	-----	0.0049	0.2	0.002	mg/L
		Metals	Dissolved	Cadmium	2	0.0122	0.0183	-----	-----	0.0043	0.5	0.005	mg/L
		Metals	Dissolved	Barium	6	0.166	2.59	-----	-----	0.1525	200	2	mg/L
		Radionuclides	Total	Cesium-137	1	3.7	3.7	-----	-----	0.78	151	1.51	pCi/L
	40199	VOC	Total	Tetrachloroethene	9	0.5	16.4	0.18	2	-----	500	5	µg/L
	P416289	Metals	Dissolved	Thallium	2	0.008	0.0151	-----	-----	0.0049	0.2	0.002	mg/L
Wells within IHSS Group 400-6	40099	VOCs	Total	1,1,1-Trichloroethane	9	13	445	0.11	50	-----	20000	200	µg/L
		VOCs	Total	**1,1-Dichloroethene**	**9**	**120**	**757**	**1.2**	**50**	-----	**700**	**7**	**µg/L**
		VOCs	Total	Methylene chloride	1	6.8	6.8	10	10	-----	500	5	µg/L
		VOCs	Total	Tetrachloroethene	9	15	99.9	0.18	50	-----	500	5	µg/L
		VOCs	Total	Trichloroethene	9	360	1530	1	50	-----	500	5	µg/L
		VOCs	Total	Vinyl chloride	1	5	5	1	1	-----	200	2	µg/L
	40299	VOCs	Total	Tetrachloroethene	9	24.6	78	0.18	5	-----	500	5	µg/L
		VOCs	Total	Trichloroethene	7	0.44	13	0.22	5	-----	500	5	µg/L
		VOCs	Total	Vinyl chloride	3	0.3	2	0.21	2	-----	200	2	µg/L
	40499	VOCs	Total	Tetrachloroethene	9	2.19	13	0.18	1	-----	500	5	µg/L
	41299	Metals	Dissolved	Chromium	9	0.209	0.47	-----	-----	0.0124	10	0.1	mg/L
		VOCs	Total	1,1-Dichloroethene	9	3	16	0.19	20	-----	700	7	µg/L
		VOCs	Total	Tetrachloroethene	9	114	510	0.18	20	-----	500	5	µg/L
		VOCs	Total	**Trichloroethene**	**9**	**10**	**95**	**0.22**	**20**	-----	**500**	**5**	**µg/L**
	P419689	Metals	Dissolved	Thallium	1	0.0071	0.0071	-----	-----	0.0049	0.2	0.002	mg/L
		SVOCs	Total	bis(2-Ethylhexyl)phthalate	2	2	110	10	10	-----	600	6	µg/L
		VOCs	Total	Tetrachloroethene	19	12	53	0.1	2	-----	500	5	µg/L
Wells Down-gradi-ent of IHSS Group 400-6	P416789	VOCs	Total	**Tetrachloroethene**	**15**	**0.2**	**7**	**0.1**	**1**	-----	**500**	**5**	**µg/L**
		VOCs	Total	Trichloroethene	17	0.55	24	0.1	1	-----	500	5	µg/L
	P416889	Metals	Total	Cadmium	1	0.0062	0.0062	-----	-----	0.0042	0.5	0.005	mg/L
		Metals	Dissolved	Thallium	3	0.0072	0.0145	-----	-----	0.0049	0.2	0.002	mg/L
		Radionuclides	Dissolved	Cesium-137	1	1.917	1.917	-----	-----	1.48	151	1.51	pCi/L
		VOCs	Total	Carbon tetrachloride	4	0.2	10	0.2	10	-----	500	5	µg/L
		VOCs	Total	Tetrachloroethene	26	6	72	0.1	20	-----	500	5	µg/L
		VOCs	Total	Trichloroethene	23	0.6	5.35	0.1	10	-----	500	5	µg/L

Analytes with Tier I or Tier II AL exceedances shown in bold.

Group 400-6 around the exterior of Buildings 444 and 447. Monitoring wells P416789 and P416889 are located downgradient of IHSS Group 400-6, southeast of the area. Table 7 summarizes exceedances of the RFCA Tier II and Tier I groundwater ALs in these wells. Although groundwater contamination is clearly present in IHSS Group 400-6, the data do not indicate that the arsenic and PAHs identified in soil are likely to enter groundwater and migrate downgradient via a groundwater pathway. As shown in Table 8, benzo(a)pyrene and dibenz(a,h)anthracene were never detected in the IHSS Group 400-6 wells or in the up or downgradient wells. Arsenic was not detected in the downgradient wells but was detected in 15 percent of the samples from wells within IHSS Group 400-6 and 18 percent of the samples from upgradient wells. In all cases the detected levels of arsenic in groundwater are within the established background range. There is no indication that these detections represent contamination. Moreover, the absence of detectable arsenic in groundwater samples collected downgradient from IHSS Group 400-6 indicates arsenic concentrations in groundwater are not increasing as it flows through this IHSS Group.

Chlorinated solvents such as tetrachloroethene, trichloroethene, and 1,1-dichloroethene were detected in the IHSS Group 400-6 wells at levels exceeding both Tier II and Tier I RFCA groundwater ALs. Chlorinated solvent detections in the upgradient wells were much less frequent and at concentrations two or more orders of magnitude lower than in the IHSS Group 400-6 area. Although this suggests there is a source of chlorinated solvents in the immediate area of IHSS Group 400-6, this conclusion could not be corroborated by accelerated action soil data for IHSS Group 400-6.

Chlorinated solvents were also detected in wells downgradient from IHSS Group 400-6; however, their concentrations were substantially lower than in IHSS Group 400-6 wells. This is consistent with the process of hydrodynamic dispersion, which is expected to occur as groundwater migrates downgradient. Uranium-238 was detected once above its RFCA Tier I groundwater AL in one upgradient well. There were no uranium exceedances in either the IHSS Group 400-6 wells or the downgradient wells.

In summary, the data presented in Tables 7 and 8 indicate that neither the PAHs nor the arsenic detected in soil at IHSS Group 400-6 are significantly affecting groundwater quality in the area of the IHSS Group. It follows that, for purposes of the SSRS, there is not an effective groundwater pathway by which subsurface soil contaminants in IHSS Group 400-6 could be transported and discharged into surface water.

4.0 NFAA SUMMARY

Based on analytical results and the SSRS, action is not required, and an NFAA determination is justified for IHSS Group 400-6 given the following:

- Concentrations of contaminants of concern (COCs) were not detected above RFCA WRW ALs except for arsenic, benzo(a)pyrene, and dibenz(a,h)anthracene. The concentrations of arsenic and dibenz(a,h)anthracene were only slightly higher

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Table 8
IHSS Group 400-6 Groundwater Data for Arsenic, Benzo(a)pyrene, and Dibenz(a,h)anthracene

Area	Well Location Code	Analyzed Fraction	Analyte	Number of Analyses	Number of Detections	Frequency of Detection	Detections		Nondetections		Back-ground	Unit
							Min Result	Max Result	Min Result	Max Result		
Wells Up-gradient of IHSS Group 400-6	P416289	Dissolved	Arsenic	4	0	0%	-----	-----	0.001	0.0043	0.00531	mg/L
		Total	Arsenic	2	1	50%		0.0016B	-----	0.003	0.00537	mg/L
		Total	Benzo(a)pyrene	1	0	0%	-----	-----	-----	10	-----	µg/L
		Total	Dibenz(a,h)anthracene	1	0	0%	-----	-----	-----	10	-----	µg/L
	10198	Dissolved	Arsenic	10	1	10%	-----	0.0008	0.00022	0.00513	0.00531	mg/L
	10598	Dissolved	Arsenic	9	4	44%	0.00073	0.0022	0.00022	0.0032	0.00531	mg/L
	40199	Dissolved	Arsenic	9	0	0%	-----	-----	0.00011	0.00246	0.00531	mg/L
Wells Within IHSS Group 400-6	P419689	Total	Benzo(a)pyrene	3	0	0%	-----	-----	-----	10	-----	µg/L
		Total	Dibenz(a,h)anthracene	3	0	0%	-----	-----	-----	10	-----	µg/L
		Dissolved	Arsenic	17	1	6%	-----	0.00119	0.00032	0.0043	0.00531	mg/L
	40099	Dissolved	Arsenic	8	1	13%	-----	0.0016	0.0022	0.00356	0.00531	mg/L
	40299	Dissolved	Arsenic	9	2	22%	0.00023	0.0009	0.00011	0.00246	0.00531	mg/L
	40399	Dissolved	Arsenic	9	1	11%	0.00052	-----	0.00011	0.00246	0.00531	mg/L
	40499	Dissolved	Arsenic	8	2	25%	0.00039	0.0052	0.00011	0.00246	0.00531	mg/L
	41299	Dissolved	Arsenic	9	2	22%	0.00066	0.0043	0.00062	0.00246	0.00531	mg/L
Wells Down-gradient from IHSS Group 400-6	P416789	Dissolved	Arsenic	10	0	0%	-----	-----	0.00015	0.0025	0.00531	mg/L
		Total	Benzo(a)pyrene	2	0	0%	-----	-----	-----	10	-----	µg/L
		Total	Dibenz(a,h)anthracene	2	0	0%	-----	-----	-----	10	-----	µg/L
	P416889	Dissolved	Arsenic	9	0	0%	-----	-----	0.00065	0.006	0.00531	mg/L
		Total	Arsenic	9	0	0%	-----	-----	0.00015	0.00246	0.00537	mg/L
		Total	Benzo(a)pyrene	2	0	0%	-----	-----	-----	10	-----	µg/L
		Total	Dibenz(a,h)anthracene	2	0	0%	-----	-----	-----	10	-----	µg/L

than the WRW ALs. Benzo(a)pyrene was detected at approximately four times the WRW AL; however this was an isolated detection in the subsurface.

- Migration of soil contaminants to surface water is unlikely because IHSS Group 400-6 is not located in an area of high erosion, based on RFCA Attachment 5, Figure 1 (DOE et al. 2003).

- Migration of the arsenic and PAH contamination detected at IHSS Group 400-6 in groundwater is not likely because groundwater data for the area shows these compounds are not entering groundwater in significant quantities. The VOC contamination present in groundwater at the site is part of the IA Plume, which will be further evaluated as part of the groundwater Interim Measure/Interim Remedial Action (IM/IRA).

Approval of this Data Summary Report constitutes regulatory agency concurrence that IHSS Group 400-6 is an NFAA Site. This information and the NFAA determination will be documented in the FY04 HRR. Ecological factors will be evaluated in the AAESE and the CRA.

5.0 DATA QUALITY ASSESSMENT

The data quality objectives (DQOs) for this project are described in the IASAP (DOE 2001). All DQOs for this project were achieved based on the following:

- Regulatory agency-approved sampling program design (IASAP Addendum #IA-03-14 [DOE 2003a]), modified because of field conditions, in accordance with the IASAP (DOE 2001);

- Collection of samples in accordance with the sampling design; and

- Results of the Data Quality Assessment (DQA), as described in the following sections.

5.1 DQA Process

The DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements:

- U.S. Environmental Protection Agency (EPA), 1994a, Guidance for the Data Quality Objective Process, QA/G-4;

- EPA, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9; and

- U.S. Department of Energy (DOE), 1999, Quality Assurance, Order 414.1A.

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Verification and validation (V&V) of data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 540/R-94/012;
- EPA, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, 540/R-94/013;
- Kaiser-Hill Company, L.L.C. (K-H) V&V Guidelines:
  - General Guidelines for Data Verification and Validation, DA-GR01 v1, 2002a
  - V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01 v1, 2002b
  - V&V Guidelines for Volatile Organics, DA-SS01 v1, 2002c
  - V&V Guidelines for Semivolatile Organics, DA-SS02 v1, 2002d
  - V&V Guidelines for Metals, DA-SS05 v1, 2002e; and
- Lockheed Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record (AR) for permanent storage 30 days after being provided to the Colorado Department of Public Health and Environment (CDPHE) and/or EPA.

5.2 V & V of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely PARCCS parameters. Data traceability is also addressed. V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold times;

- Instrument calibrations;
- Preparation blanks;
- Interference check samples (metals);
- Matrix spikes/matrix spike duplicates (MS/MSDs);
- Laboratory control samples (LCSs);
- Field duplicate measurements;
- Chemical yield (radiochemistry);
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively); and
- Sample analysis and preparation methods.

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (i.e., within tolerances acceptable to the project). Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records.

Raw hard-copy data (for example, individual analytical data packages) are currently filed by report identification number (RIN) and maintained by K H Analytical Services Division (ASD); older hard copies may reside in the Federal Center in Lakewood, Colorado. Electronic data are stored in the RFETS SWD.

Both real and QC data are included on the enclosed CD.

5.2.1 Accuracy

The following measures of accuracy were evaluated:

- LCSs;
- Surrogates;
- Field blanks; and
- Sample MSs.

Results are compared to method requirements and project goals. The results of these comparisons are summarized for RFCA COCs where the result could impact project decisions. Particular attention is paid to those values near ALs when QC results could indicate unacceptable levels of uncertainty for decision-making purposes.

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LCS Evaluation

As indicated, LCSs were run for all methods except gamma spectroscopy. The onsite laboratory is not required to provide these data.

The minimum and maximum LCS results are tabulated by chemical for the entire project in Table 10. Nearly all LCS recoveries were within tolerances. Sample results affected by LCS recoveries that were not within tolerances were all nondetects. Only two of the analytes involved were of RFCA concern. Project decisions were not affected by LCS recoveries that were not within tolerances.

LCS results that were outside of tolerances were reviewed to determine whether a potential bias might be indicated. LCS recoveries are not indicative of matrix effects because they are not prepared using site samples. LCS results do indicate whether the laboratory may be introducing a bias in the results. Recoveries reported above the upper limit may indicate the actual sample results are less than reported. Because this is environmentally conservative, no further action is needed. The analytes with unacceptable low recoveries were evaluated. If the highest sample result divided by the lowest LCS recovery for that analyte is less than the AL, no concern is warranted because any indicated bias is not great enough to affect project decisions. For this data set, the only result that required additional evaluation was chromium. However, upon further investigation, it was determined that the minimum LCS result was not actually associated with the sample with the maximum chromium detection. When the applicable LCS result was evaluated, project decisions were not affected.

Table 9
LCS Frequency

Test Method	Lab Batch	LCS Run?
ALPHA SPEC	4027453	Yes
ALPHA SPEC	4027467	Yes
ALPHA SPEC	4027477	Yes
ALPHA SPEC	4032126	Yes
ALPHA SPEC	4032127	Yes
ALPHA SPEC	4032128	Yes
ALPHA SPEC	4141496	Yes
ALPHA SPEC	4145236	Yes
ALPHA SPEC	4145242	Yes
ALPHA SPEC	4149318	Yes
ALPHA SPEC	4149322	Yes
ALPHA SPEC	4149326	Yes
ALPHA SPEC	4152043	Yes
ALPHA SPEC	4152044	Yes
ALPHA SPEC	4152045	Yes
ALPHA SPEC	4163583	Yes
ALPHA SPEC	4163584	Yes
ALPHA SPEC	4163589	Yes
ALPHA SPEC	4168456	Yes

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Test Method	Lab Batch	LCS Run?
ALPHA SPEC	4168465	Yes
ALPHA SPEC	4168468	Yes
ALPHA SPEC	4170346	Yes
ALPHA SPEC	4170349	Yes
ALPHA SPEC	4170353	Yes
ALPHA SPEC	4174179	Yes
ALPHA SPEC	4174181	Yes
ALPHA SPEC	4174184	Yes
ALPHA SPEC	4175400	Yes
ALPHA SPEC	4175408	Yes
ALPHA SPEC	4175411	Yes
ALPHA SPEC	4183145	Yes
ALPHA SPEC	4183146	Yes
ALPHA SPEC	4183147	Yes
ALPHA SPEC	4189010	Yes
ALPHA SPEC	4189011	Yes
ALPHA SPEC	4189012	Yes
ALPHA SPEC	4194609	Yes
ALPHA SPEC	4194613	Yes
ALPHA SPEC	4194615	Yes
SW-846 6010	3343544	Yes
SW-846 6010	3344161	Yes
SW-846 6010	3345587	Yes
SW-846 6010	3346201	Yes
SW-846 6010	3351576	Yes
SW-846 6010	3352250	Yes
SW-846 6010	3364401	Yes
SW-846 6010	3364424	Yes
SW-846 6010	4005383	Yes
SW-846 6010	4005385	Yes
SW-846 6010	4022514	Yes
SW-846 6010	4022547	Yes
SW-846 6010	4027476	Yes
SW-846 6010	4027478	Yes
SW-846 6010	4028483	Yes
SW-846 6010	4028490	Yes
SW-846 6010	4139484	Yes
SW-846 6010	4139536	Yes
SW-846 6010	4140573	Yes
SW-846 6010	4141296	Yes
SW-846 6010	4141573	Yes
SW-846 6010	4141574	Yes
SW-846 6010	4145140	Yes
SW-846 6010	4145141	Yes
SW-846 6010	4146280	Yes
SW-846 6010	4146354	Yes
SW-846 6010	4146578	Yes

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Test Method	Lab Batch	LCS Run?
SW-846 6010	4146579	Yes
SW-846 6010	4148180	Yes
SW-846 6010	4148181	Yes
SW-846 6010	4156465	Yes
SW-846 6010	4157057	Yes
SW-846 6010	4157058	Yes
SW-846 6010	4160247	Yes
SW-846 6010	4160250	Yes
SW-846 6010	4160432	Yes
SW-846 6010	4160433	Yes
SW-846 6010	4161661	Yes
SW-846 6010	4162313	Yes
SW-846 6010	4162314	Yes
SW-846 6010	4162315	Yes
SW-846 6010	4162316	Yes
SW-846 6010	4162321	Yes
SW-846 6010	4163156	Yes
SW-846 6010	4163496	Yes
SW-846 6010	4166285	Yes
SW-846 6010	4166287	Yes
SW-846 6010	4167194	Yes
SW-846 6010	4167207	Yes
SW-846 6010	4168229	Yes
SW-846 6010	4168231	Yes
SW-846 6010	4168530	Yes
SW-846 6010	4168531	Yes
SW-846 6010	4170198	Yes
SW-846 6010	4170199	Yes
SW-846 6010	4170452	Yes
SW-846 6010	4174232	Yes
SW-846 6010	4174235	Yes
SW-846 6010	4174299	Yes
SW-846 6010	4174301	Yes
SW-846 6010	4175480	Yes
SW-846 6010	4176245	Yes
SW-846 6010	4176376	Yes
SW-846 6010	4177511	Yes
SW-846 6010	4177512	Yes
SW-846 6010	4177513	Yes
SW-846 6010	4180234	Yes
SW-846 6010	4180236	Yes
SW-846 6010	4181226	Yes
SW-846 6010	4181564	Yes
SW-846 6010	4183424	Yes
SW-846 6010	4188587	Yes
SW-846 6010	4189113	Yes
SW-846 6010	4189124	Yes

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Test Method	Lab Batch	LCS Run?
SW-846 6010	4189133	Yes
SW-846 6010	4189536	Yes
SW-846 6010	4192068	Yes
SW-846 6010	4192069	Yes
SW-846 6010	4194375	Yes
SW-846 6010	4194378	Yes
SW-846 6010	4208468	Yes
SW-846 8081	3345591	Yes
SW-846 8081	3351577	Yes
SW-846 8081	4146591	Yes
SW-846 8081	4162117	Yes
SW-846 8081	4163495	Yes
SW-846 8081	4176570	Yes
SW-846 8081	4180492	Yes
SW-846 8081	4189533	Yes
SW-846 8082	3351578	Yes
SW-846 8082	4146593	Yes
SW-846 8082	4160423	Yes
SW-846 8082	4162122	Yes
SW-846 8082	4163494	Yes
SW-846 8082	4189534	Yes
SW-846 8260	4023187	Yes
SW-846 8260	4029518	Yes
SW-846 8260	4141445	Yes
SW-846 8260	4143045	Yes
SW-846 8260	4148260	Yes
SW-846 8260	4161466	Yes
SW-846 8260	4162481	Yes
SW-846 8260	4169156	Yes
SW-846 8260	4175445	Yes
SW-846 8260	4177180	Yes
SW-846 8260	4180437	Yes
SW-846 8260	4184444	Yes
SW-846 8260	4191224	Yes
SW-846 8260	MS1 VOA_040521A	Yes
SW-846 8260	MS1 VOA_040601B	Yes
SW-846 8260	MS1 VOA_040602A	Yes
SW-846 8260	MS1 VOA_040603A	Yes
SW-846 8260	MS1 VOA_040607A	Yes
SW-846 8260	MS1 VOA_040609A	Yes
SW-846 8260	MS1 VOA_040609B	Yes
SW-846 8260	MS1 VOA_040610A	Yes
SW-846 8260	MS1 VOA_040614A	Yes
SW-846 8260	MS1 VOA_040616A	Yes
SW-846 8260	MS1 VOA_040621A	Yes
SW-846 8260	MS1 VOA_040622A	Yes
SW-846 8260	MS1 VOA_040624A	Yes

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Test Method	Lab Batch	LCS Run?
SW-846 8260	MS1 VOA_040628A	Yes
SW-846 8260	MS1 VOA_040629A	Yes
SW-846 8260	MS1 VOA_040630A	Yes
SW-846 8260	MS1 VOA_040701B	Yes
SW-846 8260	MS1 VOA_040706A	Yes
SW-846 8260	MS2 VOA_031204B	Yes
SW-846 8260	MS2 VOA_031215A	Yes
SW-846 8260	MS2 VOA_031230A	Yes
SW-846 8260	MS2 VOA_040121A	Yes
SW-846 8260	MS2 VOA_040518A	Yes
SW-846 8260	MS2 VOA_040519A	Yes
SW-846 8260	MS2 VOA_040520A	Yes
SW-846 8260	MS2 VOA_040602A	Yes
SW-846 8260	MS2 VOA_040602B	Yes
SW-846 8260	MS2 VOA_040603A	Yes
SW-846 8260	MS2 VOA_040607A	Yes
SW-846 8260	MS2 VOA_040608A	Yes
SW-846 8260	MS2 VOA_040609A	Yes
SW-846 8260	MS2 VOA_040617A	Yes
SW-846 8260	MS2 VOA_040622A	Yes
SW-846 8260	MS3 VOA_031204A	Yes
SW-846 8260	MS3 VOA_031209B	Yes
SW-846 8260	MS3 VOA_031222A	Yes
SW-846 8260	MS3 VOA_031230A	Yes
SW-846 8260	MS3 VOA_040121A	Yes
SW-846 8260	MS3 VOA_040517A	Yes
SW-846 8260	MS3 VOA_040518A	Yes
SW-846 8260	MS3 VOA_040518B	Yes
SW-846 8260	MS3 VOA_040519A	Yes
SW-846 8260	MS3 VOA_040520A	Yes
SW-846 8260	MS3 VOA_040521A	Yes
SW-846 8260	MS3 VOA_040603A	Yes
SW-846 8260	MS3 VOA_040604A	Yes
SW-846 8260	MS3 VOA_040610A	Yes
SW-846 8260	MS3 VOA_040614A	Yes
SW-846 8260	MS3 VOA_040615A	Yes
SW-846 8260	MS3 VOA_040623A	Yes
SW-846 8260	MS3 VOA_040624A	Yes
SW-846 8260	MS3 VOA_040706A	Yes
SW-846 8270	3351586	Yes
SW-846 8270	4146594	Yes
SW-846 8270	4154516	Yes
SW-846 8270	4156447	Yes
SW-846 8270	4159593	Yes
SW-846 8270	4160422	Yes
SW-846 8270	4162123	Yes
SW-846 8270	4163497	Yes

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Test Method	Lab Batch	LCS Run?
SW-846 8270	4189535	Yes
SW9010B OR SW9012A	3353407	Yes
SW9010B OR SW9012A	4005336	Yes
SW9010B OR SW9012A	4154409	Yes
SW9010B OR SW9012A	4170120	Yes
SW9010B OR SW9012A	4195443	Yes

Table 10
LCS Evaluation Summary

Test Method Name	CAS Number	Analyte	Minimum Result (%REC)	Maximum Result (%REC)
SW-846 8260	71-55-6	1,1,1-Trichloroethane	75.15	122.00
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	74.37	119.50
SW-846 8260	79-00-5	1,1,2-Trichloroethane	83.38	117.80
SW-846 8260	75-34-3	1,1-Dichloroethane	79.47	122.90
SW-846 8260	75-35-4	1,1-Dichloroethene	79.57	142.90
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	81.00	117.80
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	56.00	81.00
SW-846 8260	95-50-1	1,2-Dichlorobenzene	84.66	114.80
SW-846 8260	107-06-2	1,2-Dichloroethane	79.13	128.00
SW-846 8260	78-87-5	1,2-Dichloropropane	83.39	117.10
SW-846 8260	106-46-7	1,4-Dichlorobenzene	84.00	116.10
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	58.00	91.00
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	54.00	84.00
SW-846 8270	120-83-2	2,4-Dichlorophenol	56.00	83.00
SW-846 8270	105-67-9	2,4-Dimethylphenol	55.00	85.00
SW-846 8270	51-28-5	2,4-Dinitrophenol	24.00	77.00
SW-846 8270	121-14-2	2,4-Dinitrotoluene	57.00	92.00
SW-846 8270	606-20-2	2,6-Dinitrotoluene	57.00	88.00
SW-846 8260	78-93-3	2-Butanone	39.25	151.40
SW-846 8270	91-58-7	2-Chloronaphthalene	54.00	82.00
SW-846 8270	95-57-8	2-Chlorophenol	56.00	84.00
SW-846 8270	91-57-6	2-Methylnaphthalene	58.00	84.00
SW-846 8270	95-48-7	2-Methylphenol	58.00	86.00
SW-846 8270	88-74-4	2-Nitroaniline	54.00	94.00
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	42.00	73.00
SW-846 8081	50-29-3	4,4'-DDT	89.00	113.00
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	40.00	77.00
SW-846 8270	106-47-8	4-Chloroaniline	34.00	75.00
SW-846 8260	108-10-1	4-Methyl-2-pentanone	70.77	122.20
SW-846 8270	106-44-5	4-Methylphenol	58.00	87.00
SW-846 8270	100-02-7	4-Nitrophenol	54.00	106.00
SW-846 8270	83-32-9	Acenaphthene	55.00	83.00
SW-846 8260	67-64-1	Acetone	30.58	161.90
SW-846 8081	309-00-2	Aldrin	87.00	108.00

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Test Method Name	CAS Number	Analyte	Minimum Result (%REC)	Maximum Result (%REC)
SW-846 6010	7429-90-5	Aluminum	91.00	107.00
SW-846 8270	120-12-7	Anthracene	56.00	87.00
SW-846 6010	7440-36-0	Antimony	85.00	100.00
SW-846 8082	12674-11-2	Aroclor-1016	72.00	87.00
SW-846 8082	11096-82-5	Aroclor-1260	81.00	104.00
SW-846 6010	7440-38-2	Arsenic	84.00	104.00
SW-846 6010	7440-39-3	Barium	91.00	107.00
SW-846 8260	71-43-2	Benzene	83.24	116.40
SW-846 8270	56-55-3	Benzo(a)anthracene	53.00	85.00
SW-846 8270	50-32-8	Benzo(a)pyrene	53.00	88.00
SW-846 8270	205-99-2	Benzo(b)fluoranthene	52.00	85.00
SW-846 8270	207-08-9	Benzo(k)fluoranthene	51.00	89.00
SW-846 8270	65-85-0	Benzoic Acid	23.00	59.00
SW-846 8270	100-51-6	Benzyl Alcohol	58.00	85.00
SW-846 6010	7440-41-7	Beryllium	92.00	106.00
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	49.00	85.00
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	50.00	78.00
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	54.00	689.00
SW-846 8260	75-27-4	Bromodichloromethane	80.23	116.00
SW-846 8260	75-25-2	Bromoform	79.05	118.00
SW-846 8260	74-83-9	Bromomethane	54.36	139.00
SW-846 8270	85-68-7	Butylbenzylphthalate	55.00	84.00
SW-846 6010	7440-43-9	Cadmium	85.00	104.00
SW-846 8260	75-15-0	Carbon Disulfide	70.00	171.80
SW-846 8260	56-23-5	Carbon Tetrachloride	75.51	118.00
SW-846 8260	108-90-7	Chlorobenzene	88.07	109.10
SW-846 8260	75-00-3	Chloroethane	72.09	189.30
SW-846 8260	67-66-3	Chloroform	78.94	119.00
SW-846 8260	74-87-3	Chloromethane	55.38	266.00
SW-846 6010	7440-47-3	Chromium	89.00	106.00
SW-846 8270	218-01-9	Chrysene	52.00	83.00
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	81.16	115.20
SW-846 6010	7440-48-4	Cobalt	86.00	103.00
SW-846 6010	7440-50-8	Copper	88.00	104.00
SW9010B OR SW9012A	57-12-5	Cyanide	98.00	103.00
SW-846 8270	84-74-2	Di-n-butylphthalate	56.00	87.00
SW-846 8270	117-84-0	Di-n-octylphthalate	51.00	78.00
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	53.00	85.00
SW-846 8270	132-64-9	Dibenzofuran	59.00	86.00
SW-846 8260	124-48-1	Dibromochloromethane	84.65	113.00
SW-846 8081	60-57-1	Dieldrin	94.00	111.00
SW-846 8270	84-66-2	Diethylphthalate	57.00	86.00
SW-846 8270	131-11-3	Dimethylphthalate	57.00	83.00
SW-846 8081	72-20-8	Endrin	92.00	116.00
SW-846 8260	100-41-4	Ethylbenzene	89.00	114.30
SW-846 8270	206-44-0	Fluoranthene	53.00	89.00

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Test Method Name	CAS Number	Analyte	Minimum Result (%REC)	Maximum Result (%REC)
SW-846 8270	86-73-7	Fluorene	57.00	83.00
SW-846 8081	58-89-9	gamma-BHC	85.00	104.00
SW-846 8081	76-44-8	Heptachlor	83.00	119.00
SW-846 8270	118-74-1	Hexachlorobenzene	54.00	84.00
SW-846 8260	87-68-3	Hexachlorobutadiene	79.00	118.10
SW-846 8270	87-68-3	Hexachlorobutadiene	56.00	81.00
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	43.00	76.00
SW-846 8270	67-72-1	Hexachloroethane	57.00	80.00
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	54.00	85.00
SW-846 6010	7439-89-6	Iron	92.00	106.00
SW-846 8270	78-59-1	Isophorone	57.00	83.00
SW-846 6010	7439-92-1	Lead	88.00	105.00
SW-846 6010	7439-93-2	Lithium	86.00	102.00
SW-846 6010	7439-96-5	Manganese	89.00	105.00
SW-846 6010	7439-97-6	Mercury	92.00	107.00
SW-846 8260	75-09-2	Methylene chloride	72.53	141.30
SW-846 6010	7439-98-7	Molybdenum	86.00	101.00
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	62.00	92.00
SW-846 8270	621-64-7	n-Nitrosodipropylamine	51.00	82.00
SW-846 8270	91-20-3	Naphthalene	55.00	80.00
SW-846 8260	91-20-3	Naphthalene	69.00	129.90
SW-846 6010	7440-02-0	Nickel	88.00	103.00
SW-846 8270	98-95-3	Nitrobenzene	54.00	83.00
SW-846 8270	87-86-5	Pentachlorophenol	43.00	78.00
SW-846 8270	108-95-2	Phenol	56.00	84.00
SW-846 8270	129-00-0	Pyrene	51.00	79.00
SW-846 6010	7782-49-2	Selenium	86.00	105.00
SW-846 6010	7440-22-4	Silver	87.00	107.00
SW-846 6010	7440-24-6	Strontium	90.00	107.00
SW-846 8260	100-42-5	Styrene	87.00	121.90
SW-846 8260	127-18-4	Tetrachloroethene	80.72	113.00
SW-846 6010	7440-31-5	Tin	81.00	95.00
SW-846 8260	108-88-3	Toluene	84.30	115.30
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	84.00	115.00
SW-846 8260	79-01-6	Trichloroethene	79.45	118.20
SW-846 6010	11-09-6	Uranium, Total	90.00	108.00
SW-846 6010	7440-62-2	Vanadium	87.00	106.00
SW-846 8260	75-01-4	Vinyl chloride	71.87	208.00
SW-846 8260	1330-20-7	Xylene	88.00	117.30
SW-846 6010	7440-66-6	Zinc	84.00	103.00

Surrogate Evaluation

The minimum and maximum surrogate results are tabulated by chemical for the entire project in Table 11. Surrogates are added to every sample; therefore, surrogate

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recoveries only impact individual samples. Unacceptable surrogate recoveries can indicate potential matrix effects. Surrogate recoveries reported above 100 percent may indicate the actual sample results are less than reported. Because this is environmentally conservative, no further action is needed. Therefore, only the lowest recoveries were evaluated. The lowest recovery in this data set was 0 percent for the surrogate 2-fluorophenol in sample BW37-012B. Records associated with this surrogate were rejected. A review of the QC data for this sample indicates that recoveries for the other surrogates analyzed for method SW-846 8270 were significantly higher: 77 percent for 2-fluorobiphenyl, 72 percent for deuterated nitrobenzene, and 66 percent for p-terphenyl-D14.

Table 11
Surrogate Recovery Summary

Number of Samples	CAS Number	Analyte	Minimum (%REC)	Maximum (%REC)
VOC Surrogate Recoveries				
249	460-00-4	4-Bromofluorobenzene	81.66	138.00
249	17060-07-0	Deuterated 1,2-dichloroethane	74.00	137.50
249	2037-26-5	Deuterated Toluene	83.00	124.00
SVOC Surrogate Recoveries				
35	321-60-8	2-Fluorobiphenyl	42.00	86.00
35	367-12-4	2-Fluorophenol	0.00	90.00
35	4165-60-0	Deuterated Nitrobenzene	51.00	84.00
35	1718-51-0	p-Terphenyl-d14	37.00	101.00

The minimum recoveries shown in Table 11 for deuterated nitrobenzene and p-terphenyl-d14 were for BY35-008B. Low recoveries for this sample did not affect project decisions because PAH COCs were above the WRW AL for this sample.

Additionally, the lowest recovery for 2-fluorobiphenyl was 42 percent at BY35-009B. Real results were well below the WRW AL for this sample; therefore, no project decisions were affected.

For the VOC surrogate recoveries, all COC results were so far below the WRW ALs that no project decisions were affected by the lowest of these recoveries.

Any qualifications of sample data due to surrogate results are captured in the V&V flags, described in Section 5.2.3.

Field Blank Evaluation

Results of the field quality assurance (QA) sample analyses are given in Table 12. Detectable amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples. When the real result is less than 10 times the blank result for laboratory contaminants and 5 times the result for nonlaboratory contaminants, the real

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result is eliminated. Although some of the blank results indicate cross-contamination may have occurred (toluene and uranium-235), project decisions were not affected because all real results were less than the ALs.

Table 12
Field QA Summary

Laboratory	CAS	Analyte	Sample QC Code	Detected Result	Result Unit
URS	108-88-3	Toluene	RNS	1.5	µg/L
URS	15117-96-1	Uranium-235	RNS	0.225	pCi/g
URS	15117-96-1	Uranium-235	FB	0.213	pCi/g
URS	7440-61-1	Uranium-238	FB	3.16	pCi/g
URS	7440-61-1	Uranium-238	RNS	3.34	pCi/g

Sample MS Evaluation

The minimum and maximum MS results are summarized by chemical for the entire project in Table 13. Organic analytes with unacceptable low recoveries resulted in a review of the LCS recoveries. According to the EPA data validation guidelines, if organic MS recoveries are low, the data reviewer may use the MS and MSD results in conjunction with other QC criteria. In this case, the LCS recoveries were checked. For this project, several analytes had minimum recoveries of 0 percent, however, the LCS recoveries for these same analytes were adequate. Benzoic acid had relatively low minimum recoveries for both MS and LCS samples, but this did not affect project decisions because all benzoic acid results were nondetects.

Both naphthalene and tetrachloroethene had negative recoveries, probably because the spike amount was significantly less than the concentration in the sample. However, project decisions were not affected because the maximum naphthalene result was two orders of magnitude less than the WRW AL and the maximum tetrachloroethene result was three orders of magnitude less than the WRW AL.

For inorganics, the associated sample results were divided by the lowest percent recovery for each analyte. If the resulting number is less than the AL, decisions were not impacted; therefore, no action was taken. For this project, all results were acceptable; however, chromium, iron, manganese, and zinc had zero percent recovery as a low. For iron and zinc, the maximum observed concentrations were less than 15 percent of the WRW ALs. For chromium and manganese, the maximum observed concentrations were less than 50 percent of the WRW ALs. Manganese was detected at concentrations greater than the background mean plus two standard deviations in less than 2 percent of all samples. Chromium was detected above the background mean plus two standard deviations in approximately 35 percent of surface soil samples and approximately 1 percent of subsurface soil samples. The low MS recoveries for these metals do not impact project decisions.

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Table 13
Sample MS Evaluation Summary

Test Method Name	CAS Number	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Samples	Number of Laboratory Batches
SW-846 8260	71-55-6	1,1,1-Trichloroethane	72.00	210.10	36	36
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	0.00	117.90	36	36
SW-846 8260	79-00-5	1,1,2-Trichloroethane	39.35	117.70	36	36
SW-846 8260	75-34-3	1,1-Dichloroethane	82.26	129.60	36	36
SW-846 8260	75-35-4	1,1-Dichloroethene	73.51	139.00	36	36
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	34.32	100.40	36	36
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	55.00	82.00	6	6
SW-846 8260	95-50-1	1,2-Dichlorobenzene	69.95	104.00	36	36
SW-846 8260	107-06-2	1,2-Dichloroethane	83.00	121.50	36	36
SW-846 8260	78-87-5	1,2-Dichloropropane	87.00	121.50	36	36
SW-846 8260	106-46-7	1,4-Dichlorobenzene	67.28	104.00	36	36
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	57.00	92.00	6	6
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	57.00	88.00	6	6
SW-846 8270	120-83-2	2,4-Dichlorophenol	57.00	86.00	6	6
SW-846 8270	105-67-9	2,4-Dimethylphenol	62.00	91.00	6	6
SW-846 8270	51-28-5	2,4-Dinitrophenol	35.00	66.00	6	6
SW-846 8270	121-14-2	2,4-Dinitrotoluene	62.00	95.00	6	6
SW-846 8270	606-20-2	2,6-Dinitrotoluene	58.00	93.00	6	6
SW-846 8260	78-93-3	2-Butanone	56.73	198.10	36	36
SW-846 8270	91-58-7	2-Chloronaphthalene	55.00	83.00	6	6
SW-846 8270	95-57-8	2-Chlorophenol	57.00	81.00	6	6
SW-846 8270	91-57-6	2-Methylnaphthalene	59.00	85.00	6	6
SW-846 8270	95-48-7	2-Methylphenol	64.00	86.00	6	6
SW-846 8270	88-74-4	2-Nitroaniline	60.00	91.00	6	6
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	52.00	84.00	6	6
SW-846 8081	50-29-3	4,4'-DDT	0.00	113.00	4	4
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	44.00	71.00	6	6
SW-846 8270	106-47-8	4-Chloroaniline	54.00	73.00	6	6
SW-846 8260	108-10-1	4-Methyl-2-pentanone	69.82	116.80	36	36
SW-846 8270	106-44-5	4-Methylphenol	64.00	86.00	6	6
SW-846 8270	100-02-7	4-Nitrophenol	53.00	101.00	6	6
SW-846 8270	83-32-9	Acenaphthene	56.00	84.00	6	6
SW-846 8260	67-64-1	Acetone	21.14	217.60	36	36
SW-846 8081	309-00-2	Aldrin	0.00	103.00	4	4
SW-846 6010	7429-90-5	Aluminum	374.00	9750.00	25	25
SW-846 8270	120-12-7	Anthracene	56.00	91.00	6	6
SW-846 6010	7440-36-0	Antimony	30.00	71.00	25	25
SW-846 8082	12674-11-2	Aroclor-1016	77.00	113.00	4	4
SW-846 8082	11096-82-5	Aroclor-1260	81.00	91.00	4	4

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Test Method Name	CAS Number	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Samples	Number of Laboratory Batches
SW-846 6010	7440-38-2	Arsenic	81.00	100.00	25	25
SW-846 6010	7440-39-3	Barium	78.00	115.00	25	25
SW-846 8260	71-43-2	Benzene	82.00	121.30	36	36
SW-846 8270	56-55-3	Benzo(a)anthracene	53.00	88.00	6	6
SW-846 8270	50-32-8	Benzo(a)pyrene	56.00	89.00	6	6
SW-846 8270	205-99-2	Benzo(b)fluoranthene	52.00	83.00	6	6
SW-846 8270	207-08-9	Benzo(k)fluoranthene	54.00	86.00	6	6
SW-846 8270	65-85-0	Benzoic Acid	21.00	69.00	6	6
SW-846 8270	100-51-6	Benzyl Alcohol	63.00	86.00	6	6
SW-846 6010	7440-41-7	Beryllium	77.00	105.00	25	25
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	55.00	70.00	6	6
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	55.00	73.00	6	6
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	51.00	85.00	6	6
SW-846 8260	75-27-4	Bromodichloromethane	80.50	124.60	36	36
SW-846 8260	75-25-2	Bromoform	80.53	109.90	36	36
SW-846 8260	74-83-9	Bromomethane	68.37	204.30	36	36
SW-846 8270	85-68-7	Butylbenzylphthalate	56.00	90.00	6	6
SW-846 6010	7440-43-9	Cadmium	72.00	128.00	25	25
SW-846 8260	75-15-0	Carbon Disulfide	54.95	117.20	36	36
SW-846 8260	56-23-5	Carbon Tetrachloride	70.00	136.30	36	36
SW-846 8260	108-90-7	Chlorobenzene	80.25	108.00	36	36
SW-846 8260	75-00-3	Chloroethane	61.62	161.20	36	36
SW-846 8260	67-66-3	Chloroform	82.00	126.50	36	36
SW-846 8260	74-87-3	Chloromethane	36.19	167.80	36	36
SW-846 6010	7440-47-3	Chromium	0.00	143.00	25	25
SW-846 8270	218-01-9	Chrysene	50.00	85.00	6	6
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	83.70	120.50	36	36
SW-846 6010	7440-48-4	Cobalt	79.00	100.00	25	25
SW-846 6010	7440-50-8	Copper	68.00	155.00	25	25
SW9010B OR SW9012A	57-12-5	Cyanide	95.00	107.00	5	5
SW-846 8270	84-74-2	Di-n-butylphthalate	54.00	92.00	6	6
SW-846 8270	117-84-0	Di-n-octylphthalate	50.00	86.00	6	6
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	50.00	80.00	6	6
SW-846 8270	132-64-9	Dibenzofuran	60.00	89.00	6	6
SW-846 8260	124-48-1	Dibromochloromethane	83.13	112.00	36	36
SW-846 8081	60-57-1	Dieldrin	0.00	110.00	4	4
SW-846 8270	84-66-2	Diethylphthalate	58.00	89.00	6	6
SW-846 8270	131-11-3	Dimethylphthalate	58.00	87.00	6	6
SW-846 8081	72-20-8	Endrin	0.00	122.00	4	4
SW-846 8260	100-41-4	Ethylbenzene	75.84	108.00	36	36
SW-846 8270	206-44-0	Fluoranthene	49.00	92.00	6	6
SW-846 8270	86-73-7	Fluorene	57.00	87.00	6	6
SW-846 8081	58-89-9	gamma-BHC	0.00	103.00	4	4

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Test Method Name	CAS Number	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Samples	Number of Laboratory Batches
SW-846 8081	76-44-8	Heptachlor	0.00	106.00	4	4
SW-846 8270	118-74-1	Hexachlorobenzene	53.00	84.00	6	6
SW-846 8260	87-68-3	Hexachlorobutadiene	20.86	101.80	36	36
SW-846 8270	87-68-3	Hexachlorobutadiene	55.00	83.00	6	6
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	20.00	68.00	6	6
SW-846 8270	67-72-1	Hexachloroethane	53.00	78.00	6	6
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	48.00	81.00	6	6
SW-846 6010	7439-89-6	Iron	0.00	16900.00	25	25
SW-846 8270	78-59-1	Isophorone	59.00	84.00	6	6
SW-846 6010	7439-92-1	Lead	41.00	109.00	25	25
SW-846 6010	7439-93-2	Lithium	81.00	114.00	25	25
SW-846 6010	7439-96-5	Manganese	0.00	530.00	25	25
SW-846 6010	7439-97-6	Mercury	82.00	125.00	27	27
SW-846 8260	75-09-2	Methylene chloride	69.06	148.10	36	36
SW-846 6010	7439-98-7	Molybdenum	71.00	96.00	25	25
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	63.00	97.00	6	6
SW-846 8270	621-64-7	n-Nitrosodipropylamine	58.00	78.00	6	6
SW-846 8270	91-20-3	Naphthalene	54.00	82.00	6	6
SW-846 8260	91-20-3	Naphthalene	-69.22	115.30	36	36
SW-846 6010	7440-02-0	Nickel	81.00	112.00	25	25
SW-846 8270	98-95-3	Nitrobenzene	60.00	79.00	6	6
SW-846 8270	87-86-5	Pentachlorophenol	42.00	74.00	6	6
SW-846 8270	108-95-2	Phenol	62.00	81.00	6	6
SW-846 8270	129-00-0	Pyrene	53.00	84.00	6	6
SW-846 6010	7782-49-2	Selenium	82.00	100.00	25	25
SW-846 6010	7440-22-4	Silver	79.00	312.00	25	25
SW-846 6010	7440-24-6	Strontium	80.00	132.00	25	25
SW-846 8260	100-42-5	Styrene	73.86	107.90	36	36
SW-846 8260	127-18-4	Tetrachloroethene	-8.64	3006.00	36	36
SW-846 6010	7440-31-5	Tin	67.00	91.00	25	25
SW-846 8260	108-88-3	Toluene	85.18	112.00	36	36
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	80.13	110.00	36	36
SW-846 8260	79-01-6	Trichloroethene	71.00	177.90	36	36
SW-846 6010	11-09-6	Uranium, Total	82.00	100.00	25	25
SW-846 6010	7440-62-2	Vanadium	78.00	131.00	25	25
SW-846 8260	75-01-4	Vinyl chloride	46.64	151.20	36	36
SW-846 8260	1330-20-7	Xylene	76.30	108.60	36	36
SW-846 6010	7440-66-6	Zinc	0.00	190.00	25	25

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5.2.2 Precision

Sample MSD Evaluation

Laboratory precision is measured through use of MSDs. MSD results for this project are summarized in Table 14. Analytes with the highest relative percent differences (RPDs) were reviewed by comparing the highest sample result to the AL. If the highest samples were sufficiently below the AL, no further action is needed. For this project, tetrachloroethene (504 percent). However, the maximum detected concentration of tetrachloroethene was three orders of magnitude below the WRW AL. No project decisions were affected by MSD results with high RPDs.

Table 14
Sample MSD Evaluation Summary

Test Method Name	CAS	Analyte	Maximum RPD (%)
SW-846 8260	71-55-6	1,1,1-Trichloroethane	75.47
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	15.06
SW-846 8260	79-00-5	1,1,2-Trichloroethane	18.46
SW-846 8260	75-34-3	1,1-Dichloroethane	23.83
SW-846 8260	75-35-4	1,1-Dichloroethene	27.76
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	27.96
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	11.54
SW-846 8260	95-50-1	1,2-Dichlorobenzene	16.56
SW-846 8260	107-06-2	1,2-Dichloroethane	22.44
SW-846 8260	78-87-5	1,2-Dichloropropane	14.82
SW-846 8260	106-46-7	1,4-Dichlorobenzene	20.23
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	19.23
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	21.36
SW-846 8270	120-83-2	2,4-Dichlorophenol	17.14
SW-846 8270	105-67-9	2,4-Dimethylphenol	15.65
SW-846 8270	51-28-5	2,4-Dinitrophenol	31.58
SW-846 8270	121-14-2	2,4-Dinitrotoluene	25.45
SW-846 8270	606-20-2	2,6-Dinitrotoluene	18.87
SW-846 8260	78-93-3	2-Butanone	60.43
SW-846 8270	91-58-7	2-Chloronaphthalene	17.82
SW-846 8270	95-57-8	2-Chlorophenol	17.54
SW-846 8270	91-57-6	2-Methylnaphthalene	14.55
SW-846 8270	95-48-7	2-Methylphenol	16.95
SW-846 8270	88-74-4	2-Nitroaniline	20.18
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	20.00
SW-846 8081	50-29-3	4,4'-DDT	15.73
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	25.64
SW-846 8270	106-47-8	4-Chloroaniline	29.92
SW-846 8260	108-10-1	4-Methyl-2-pentanone	32.57
SW-846 8270	106-44-5	4-Methylphenol	18.80
SW-846 8270	100-02-7	4-Nitrophenol	30.77

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Test Method Name	CAS	Analyte	Maximum RPD (%)
SW-846 8270	83-32-9	Acenaphthene	19.61
SW-846 8260	67-64-1	Acetone	73.83
SW-846 8081	309-00-2	Aldrin	17.54
SW-846 6010	7429-90-5	Aluminum	159.12
SW-846 8270	120-12-7	Anthracene	17.48
SW-846 6010	7440-36-0	Antimony	30.51
SW-846 8082	12674-11-2	Aroclor-1016	17.75
SW-846 8082	11096-82-5	Aroclor-1260	16.95
SW-846 6010	7440-38-2	Arsenic	14.86
SW-846 6010	7440-39-3	Barium	20.69
SW-846 8260	71-43-2	Benzene	11.67
SW-846 8270	56-55-3	Benzo(a)anthracene	16.33
SW-846 8270	50-32-8	Benzo(a)pyrene	19.61
SW-846 8270	205-99-2	Benzo(b)fluoranthene	17.14
SW-846 8270	207-08-9	Benzo(k)fluoranthene	21.95
SW-846 8270	65-85-0	Benzoic Acid	20.69
SW-846 8270	100-51-6	Benzyl Alcohol	24.46
SW-846 6010	7440-41-7	Beryllium	14.46
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	16.22
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	17.86
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	16.44
SW-846 8260	75-27-4	Bromodichloromethane	18.34
SW-846 8260	75-25-2	Bromoform	20.33
SW-846 8260	74-83-9	Bromomethane	43.98
SW-846 8270	85-68-7	Butylbenzylphthalate	21.78
SW-846 6010	7440-43-9	Cadmium	24.56
SW-846 8260	75-15-0	Carbon Disulfide	32.92
SW-846 8260	56-23-5	Carbon Tetrachloride	20.83
SW-846 8260	108-90-7	Chlorobenzene	21.40
SW-846 8260	75-00-3	Chloroethane	46.89
SW-846 8260	67-66-3	Chloroform	26.31
SW-846 8260	74-87-3	Chloromethane	45.89
SW-846 6010	7440-47-3	Chromium	134.31
SW-846 8270	218-01-9	Chrysene	12.77
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	13.43
SW-846 6010	7440-48-4	Cobalt	14.12
SW-846 6010	7440-50-8	Copper	50.62
SW9010B OR SW9012A	57-12-5	Cyanide	7.27
SW-846 8270	84-74-2	Di-n-butylphthalate	16.00
SW-846 8270	117-84-0	Di-n-octylphthalate	18.44
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	12.77
SW-846 8270	132-64-9	Dibenzofuran	20.18
SW-846 8260	124-48-1	Dibromochloromethane	17.58
SW-846 8081	60-57-1	Dieldrin	18.58
SW-846 8270	84-66-2	Diethylphthalate	18.87

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Test Method Name	CAS	Analyte	Maximum RPD (%)
SW-846 8270	131-11-3	Dimethylphthalate	18.87
SW-846 8081	72-20-8	Endrin	13.50
SW-846 8260	100-41-4	Ethylbenzene	18.90
SW-846 8270	206-44-0	Fluoranthene	22.90
SW-846 8270	86-73-7	Fluorene	21.36
SW-846 8081	58-89-9	gamma-BHC	7.04
SW-846 8081	76-44-8	Heptachlor	11.49
SW-846 8270	118-74-1	Hexachlorobenzene	15.58
SW-846 8270	87-68-3	Hexachlorobutadiene	13.59
SW-846 8260	87-68-3	Hexachlorobutadiene	54.58
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	43.14
SW-846 8270	67-72-1	Hexachloroethane	20.18
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	10.37
SW-846 6010	7439-89-6	Iron	196.26
SW-846 8270	78-59-1	Isophorone	12.61
SW-846 6010	7439-92-1	Lead	131.67
SW-846 6010	7439-93-2	Lithium	13.79
SW-846 6010	7439-96-5	Manganese	138.46
SW-846 6010	7439-97-6	Mercury	32.18
SW-846 8260	75-09-2	Methylene chloride	34.93
SW-846 6010	7439-98-7	Molybdenum	22.50
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	23.01
SW-846 8270	621-64-7	n-Nitrosodipropylamine	19.82
SW-846 8260	91-20-3	Naphthalene	77.55
SW-846 8270	91-20-3	Naphthalene	13.86
SW-846 6010	7440-02-0	Nickel	16.67
SW-846 8270	98-95-3	Nitrobenzene	18.80
SW-846 8270	87-86-5	Pentachlorophenol	33.33
SW-846 8270	108-95-2	Phenol	21.43
SW-846 8270	129-00-0	Pyrene	16.33
SW-846 6010	7782-49-2	Selenium	16.39
SW-846 6010	7440-22-4	Silver	35.47
SW-846 6010	7440-24-6	Strontium	45.58
SW-846 8260	100-42-5	Styrene	20.82
SW-846 8260	127-18-4	Tetrachloroethene	503.71
SW-846 6010	7440-31-5	Tin	22.52
SW-846 8260	108-88-3	Toluene	18.36
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	17.39
SW-846 8260	79-01-6	Trichloroethene	13.52
SW-846 6010	11-09-6	Uranium, Total	16.76
SW-846 6010	7440-62-2	Vanadium	27.80
SW-846 8260	75-01-4	Vinyl chloride	37.07
SW-846 8260	1330-20-7	Xylene	21.07
SW-846 6010	7440-66-6	Zinc	64.52

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Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process. The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent. This goal is applied to the overall project and not on a specific IHSS Group basis. Table 15 indicates sampling frequencies were greater than 5 percent for all methods except for gamma spectroscopy, SW-846 6010/6010B, and SW-846 8260.

Table 15
Field Duplicate Sample Frequency Summary

Test Method Name	Sample Code	Number of Samples	% Duplicate Samples
Alpha Spectroscopy	REAL DUP	46 12	26.09%
Gamma Spectroscopy	REAL DUP	447 16	3.58%
SW-846 6010	REAL DUP	447 16	3.58%
SW-846 8081	REAL DUP	24 4	16.67%
SW-846 8082	REAL DUP	26 4	15.38%
SW-846 8260	REAL DUP	249 8	3.21%
SW-846 8270	REAL DUP	36 6	16.67%
SW9010B OR SW9012A	REAL DUP	30 2	6.67%

The RPDs indicate how much variation exists in the field duplicate analyses. The EPA data validation guidelines state that "there are no required review criteria for field duplicate analyses comparability." For the DQA, the highest RPDs were reviewed. The highest sample concentrations for those analytes were corrected for the associated RPD (Table 16), and the resulting number was compared to the AL. For this project, project decisions were not impacted.

Table 16
Field Duplicate RPD Evaluation Summary

Lab Code	Test Method	Analyte	Maximum Result RPD (%)
ESTLDEN	SW-846 8260	1,1,1-Trichloroethane	3.70
ESTLDEN	SW-846 8260	1,1-Dichloroethane	3.70
ESTLDEN	SW-846 8260	1,2,4-Trichlorobenzene	3.70

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Lab Code	Test Method	Analyte	Maximum Result RPD (%)
ESTLDEN	SW-846 8270	1,2,4-Trichlorobenzene	5.13
ESTLDEN	SW-846 8260	1,2-Dichloroethane	3.39
ESTLDEN	SW-846 8270	2,4,5-Trichlorophenol	5.13
ESTLDEN	SW-846 8270	2,4,6-Trichlorophenol	5.13
ESTLDEN	SW-846 8270	2,4-Dichlorophenol	5.13
ESTLDEN	SW-846 8270	2,4-Dimethylphenol	5.13
ESTLDEN	SW-846 8270	2,4-Dinitrophenol	5.13
ESTLDEN	SW-846 8270	2-Chloronaphthalene	5.13
ESTLDEN	SW-846 8270	2-Chlorophenol	5.13
ESTLDEN	SW-846 8270	2-Methylnaphthalene	5.13
ESTLDEN	SW-846 8270	2-Methylphenol	5.13
ESTLDEN	SW-846 8270	2-Nitroaniline	5.13
ESTLDEN	SW-846 8270	3,3'-Dichlorobenzidine	6.45
ESTLDEN	SW-846 8081	4,4'-DDD	165.30
ESTLDEN	SW-846 8081	4,4'-DDE	165.30
ESTLDEN	SW-846 8270	4,6-Dinitro-2-methylphenol	5.13
ESTLDEN	SW-846 8270	4-Chloroaniline	6.45
ESTLDEN	SW-846 8260	4-Methyl-2-pentanone	4.65
ESTLDEN	SW-846 8270	4-Methylphenol	5.13
ESTLDEN	SW-846 8270	4-Nitrophenol	5.13
ESTLDEN	SW-846 8270	Acenaphthene	5.13
ESTLDEN	SW-846 8260	Acetone	70.50
ESTLDEN	SW-846 6010	Aluminum	53.06
ESTLDEN	SW-846 8270	Anthracene	5.13
ESTLDEN	SW-846 8082	Aroclor-1016	2.82
ESTLDEN	SW-846 8082	Aroclor-1221	2.82
ESTLDEN	SW-846 8082	Aroclor-1232	2.82
ESTLDEN	SW-846 8082	Aroclor-1242	2.82
ESTLDEN	SW-846 8082	Aroclor-1254	65.38
ESTLDEN	SW-846 8082	Aroclor-1260	2.82
ESTLDEN	SW-846 6010	Arsenic	73.38
ESTLDEN	SW-846 6010	Barium	53.91
ESTLDEN	SW-846 8260	Benzene	3.70
ESTLDEN	SW-846 8270	Benzo(a)anthracene	18.60
ESTLDEN	SW-846 8270	Benzo(a)pyrene	13.33
ESTLDEN	SW-846 8270	Benzo(b)fluoranthene	60.00
ESTLDEN	SW-846 8270	Benzo(k)fluoranthene	5.13
ESTLDEN	SW-846 8270	Benzoic Acid	5.13
ESTLDEN	SW-846 8270	Benzyl Alcohol	6.45
ESTLDEN	SW-846 6010	Beryllium	63.57
ESTLDEN	SW-846 8270	bis(2-Chloroethyl)ether	5.13
ESTLDEN	SW-846 8270	bis(2-Chloroisopropyl)ether	5.13
ESTLDEN	SW-846 8270	bis(2-Ethylhexyl)phthalate	5.13
ESTLDEN	SW-846 8260	Bromodichloromethane	3.70
ESTLDEN	SW-846 8260	Bromoform	3.70
ESTLDEN	SW-846 8270	Butylbenzylphthalate	5.13

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Lab Code	Test Method	Analyte	Maximum Result RPD (%)
ESTLDEN	SW-846 6010	Cadmium	71.84
ESTLDEN	SW-846 8260	Carbon Disulfide	3.70
ESTLDEN	SW-846 8260	Chlorobenzene	3.70
ESTLDEN	SW-846 8260	Chloroform	3.70
ESTLDEN	SW-846 6010	Chromium	140.43
ESTLDEN	SW-846 8270	Chrysene	20.95
ESTLDEN	SW-846 8260	cis-1,3-Dichloropropene	3.70
ESTLDEN	SW-846 6010	Cobalt	89.86
ESTLDEN	SW-846 6010	Copper	110.08
ESTLDEN	SW-846 8270	Di-n-butylphthalate	5.13
ESTLDEN	SW-846 8270	Di-n-octylphthalate	5.13
ESTLDEN	SW-846 8270	Dibenz(a,h)anthracene	5.13
ESTLDEN	SW-846 8270	Dibenzofuran	5.13
ESTLDEN	SW-846 8260	Dibromochloromethane	3.70
ESTLDEN	SW-846 8270	Diethylphthalate	5.13
ESTLDEN	SW-846 8270	Dimethylphthalate	5.13
ESTLDEN	SW-846 8270	Fluoranthene	101.08
ESTLDEN	SW-846 8270	Fluorene	5.13
ESTLDEN	SW-846 8081	Heptachlor epoxide	164.50
ESTLDEN	SW-846 8270	Hexachlorobenzene	5.13
ESTLDEN	SW-846 8270	Hexachlorobutadiene	5.13
ESTLDEN	SW-846 8270	Hexachlorocyclopentadiene	5.13
ESTLDEN	SW-846 8270	Hexachloroethane	5.13
ESTLDEN	SW-846 8270	Indeno(1,2,3-cd)pyrene	15.38
ESTLDEN	SW-846 6010	Iron	90.32
ESTLDEN	SW-846 8270	Isophorone	12.66
ESTLDEN	SW-846 6010	Lead	190.08
ESTLDEN	SW-846 6010	Lithium	56.41
ESTLDEN	SW-846 6010	Manganese	104.76
ESTLDEN	SW-846 6010	Mercury	109.79
ESTLDEN	SW-846 8081	Methoxychlor	164.51
ESTLDEN	SW-846 8260	Methylene chloride	3.64
ESTLDEN	SW-846 6010	Molybdenum	12.50
ESTLDEN	SW-846 8270	n-Nitrosodiphenylamine	5.13
ESTLDEN	SW-846 8270	n-Nitrosodipropylamine	5.13
ESTLDEN	SW-846 8260	Naphthalene	3.70
ESTLDEN	SW-846 8270	Naphthalene	5.13
ESTLDEN	SW-846 6010	Nickel	130.00
ESTLDEN	SW-846 8270	Nitrobenzene	5.13
ESTLDEN	SW-846 8270	Pentachlorophenol	5.13
ESTLDEN	SW-846 8270	Phenol	5.13
ESTLDEN	SW-846 8270	Pyrene	11.54
ESTLDEN	SW-846 6010	Silver	170.59
ESTLDEN	SW-846 6010	Strontium	44.44
ESTLDEN	SW-846 8260	Styrene	3.70
ESTLDEN	SW-846 8260	Tetrachloroethene	98.51

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Lab Code	Test Method	Analyte	Maximum Result RPD (%)
URS	SW-846 8260	Tetrachloroethene	90.60
ESTLDEN	SW-846 8260	Toluene	3.70
ESTLDEN	SW-846 8081	Toxaphene	165.30
ESTLDEN	SW-846 8260	trans-1,3-Dichloropropene	1.65
ESTLDEN	SW-846 8260	Trichloroethene	3.70
ESTLDEN	ALPHA SPEC	Uranium-238	33.43
ESTLDEN	SW-846 6010	Vanadium	72.46
ESTLDEN	SW-846 6010	Zinc	115.52

5.2.3 Completeness

Based on original project DQOs, a minimum of 25 percent of Environmental Restoration (ER) Program analytical (and radiological) results must be formally verified and validated. Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements. These goals are applied to the overall project and not on a specific IHSS Group basis. Table 17 presents the number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analytical method.

Table 17
Validation and Verification Summary

Validation Qualifier Code	Total Number of Records	Count of Records by Test Method:							
		Alpha Spec-troscopy	Gamma Spec-troscopy	SW-846 6010	SW-846 8081	SW-846 8082	SW-846 8260	SW-846 8270	SW9010B OR SW9012A
No V&V	49	0	48	0	0	0	1	0	0
1	138	0	0	18	68	0	0	52	0
J	507	0	0	503	0	1	3	0	0
J1	1316	2	0	1283	2	0	23	6	0
JB	3	0	0	0	0	0	3	0	0
JB1	10	0	0	0	0	0	10	0	0
R	6	4	0	2	0	0	0	0	0
R1	15	0	0	2	0	0	0	13	0
UJ	221	0	0	150	0	0	71	0	0
UJ1	720	0	0	460	3	0	216	41	0
V	4694	36	291	2036	0	13	1902	416	0
V1	16493	188	1002	5827	335	168	7599	1344	30
Total	24172	230	1341	10281	408	182	9828	1872	30
Validated	5431	40	291	2691	0	14	1979	416	0
%Validated	22.5%	17.4%	21.7%	26.2%	0.0%	7.7%	20.1%	22.2%	0.0%
Verified	18692	190	1002	7590	408	168	7848	1456	30
%Verified	77.3%	82.6%	74.7%	73.8%	100.0%	92.3%	79.9%	77.8%	100.0%
%Rejected	0.087%	1.739%	0.000%	0.039%	0.000%	0.000%	0.000%	0.694%	0.000%

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5.2.4 Sensitivity

RLs, in units of µg/kg for organics, mg/kg for metals, and picocuries per gram (pCi/g) for radionuclides, were compared with RFCA WRW ALs. Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions. "Adequate" sensitivity is defined as an RL less than an analyte's associated AL, typically less than one-half the AL.

5.3 Summary of Data Quality

Six records were rejected out of 5431validated records and 15 records were rejected out of 18,692 verified records, for a total of 21 records rejected out of a total 24,172 records. None of the rejected records were associated with biased sampling locations. All rejected results were nondetects. The overall rate of data validation was 22.5 percent. If additional V&V information is received, IHSS Group 400-6 records will be updated in SWD. Data qualified as a result of additional data will be assessed as part of the CRA process. Data collected and used for IHSS Group 400-6 are adequate for decision making based on ER Program goals.

6.0 REFERENCES

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Enclosure

Compact Disc Containing Standardized Real and QC Data

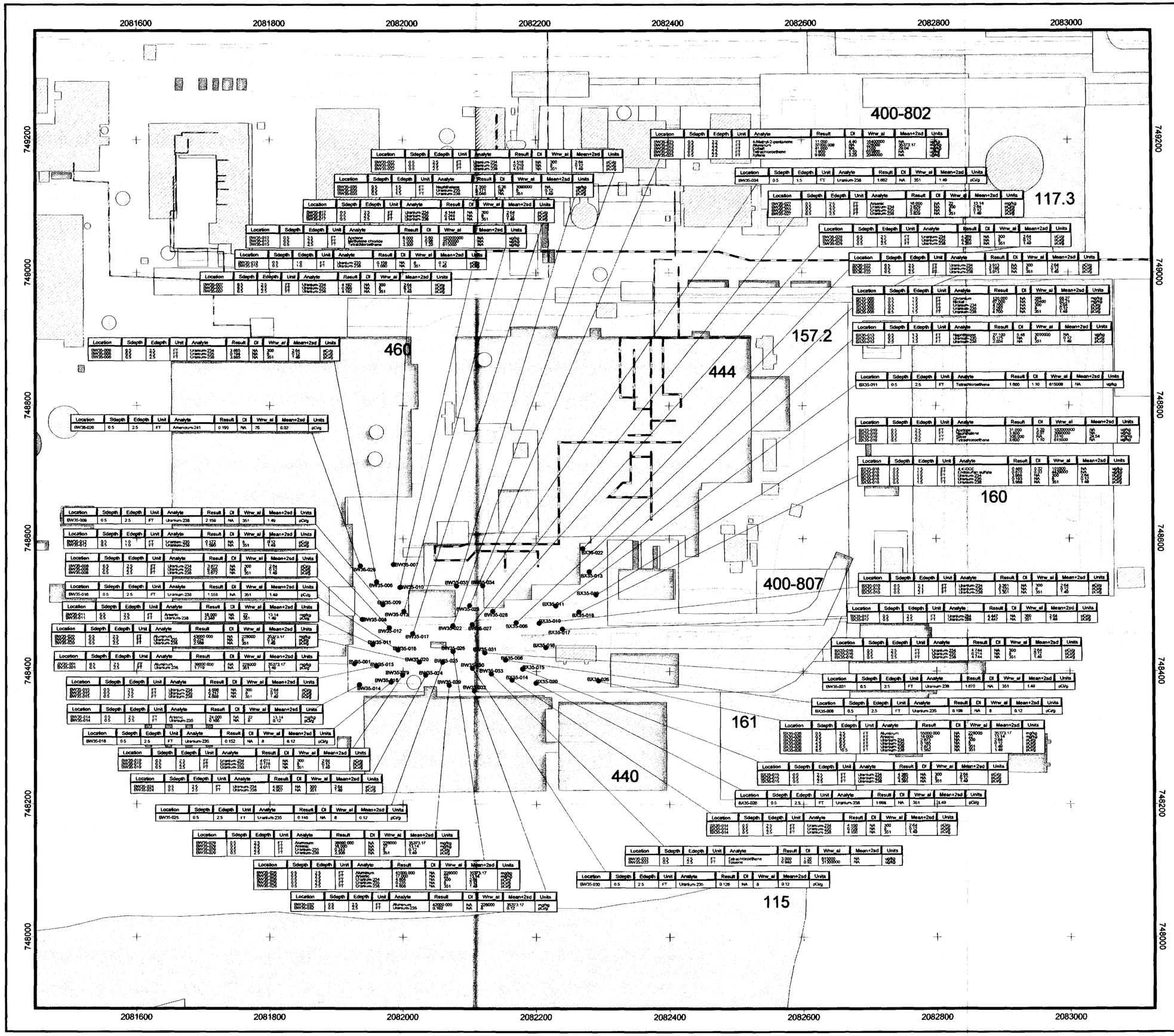

Figure 10
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Subsurface Soil Southwest Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

N W E S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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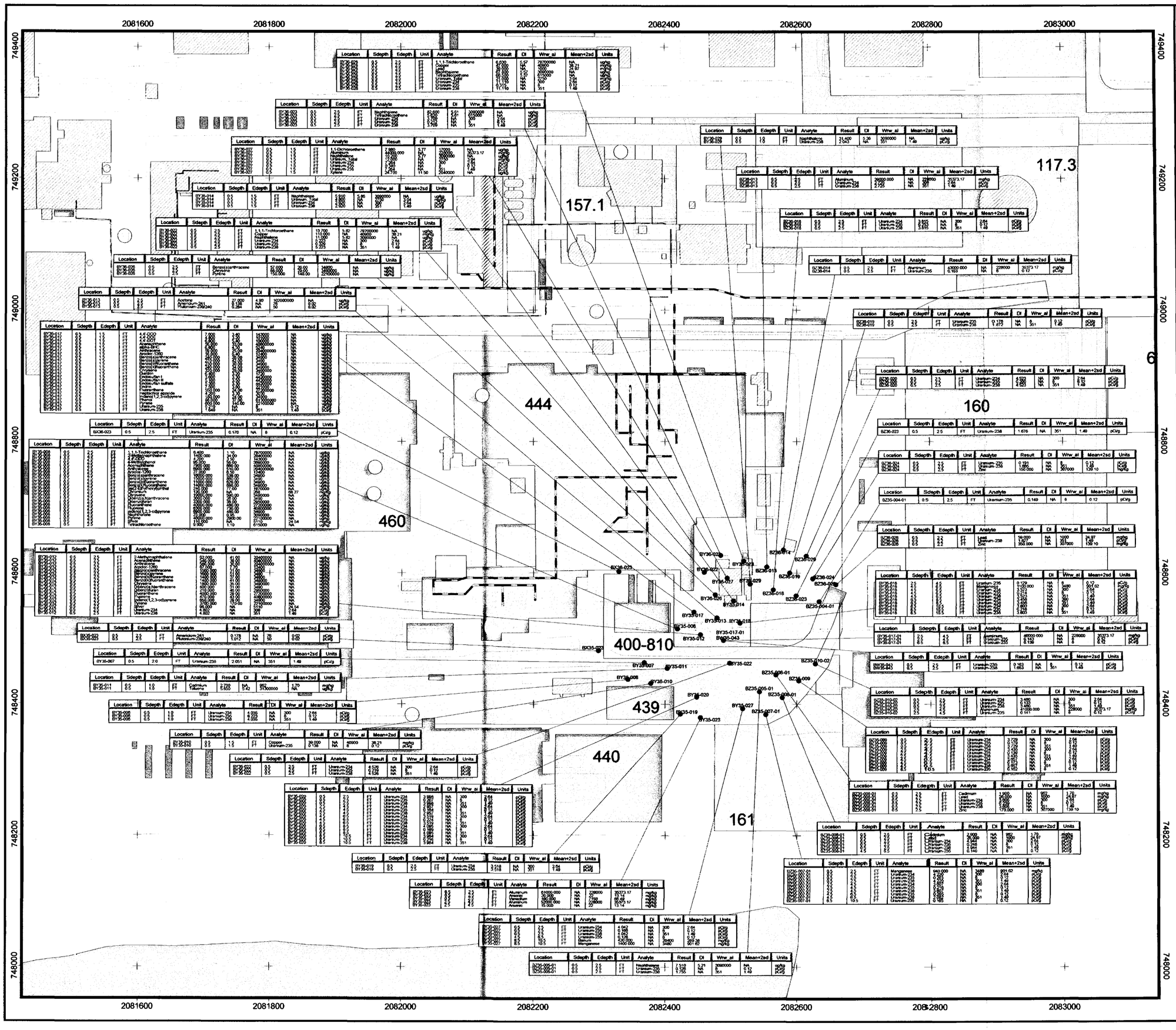

Figure 9
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations RLs -- Subsurface Soil Southeast Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL

IHSS Group 400-6 (IHSS 157.2)

Other IHSSs

PAC

New Process Waste Lines

Original Process Waste Lines

Paved Road

Building

Demolished

Standing

N
W E
S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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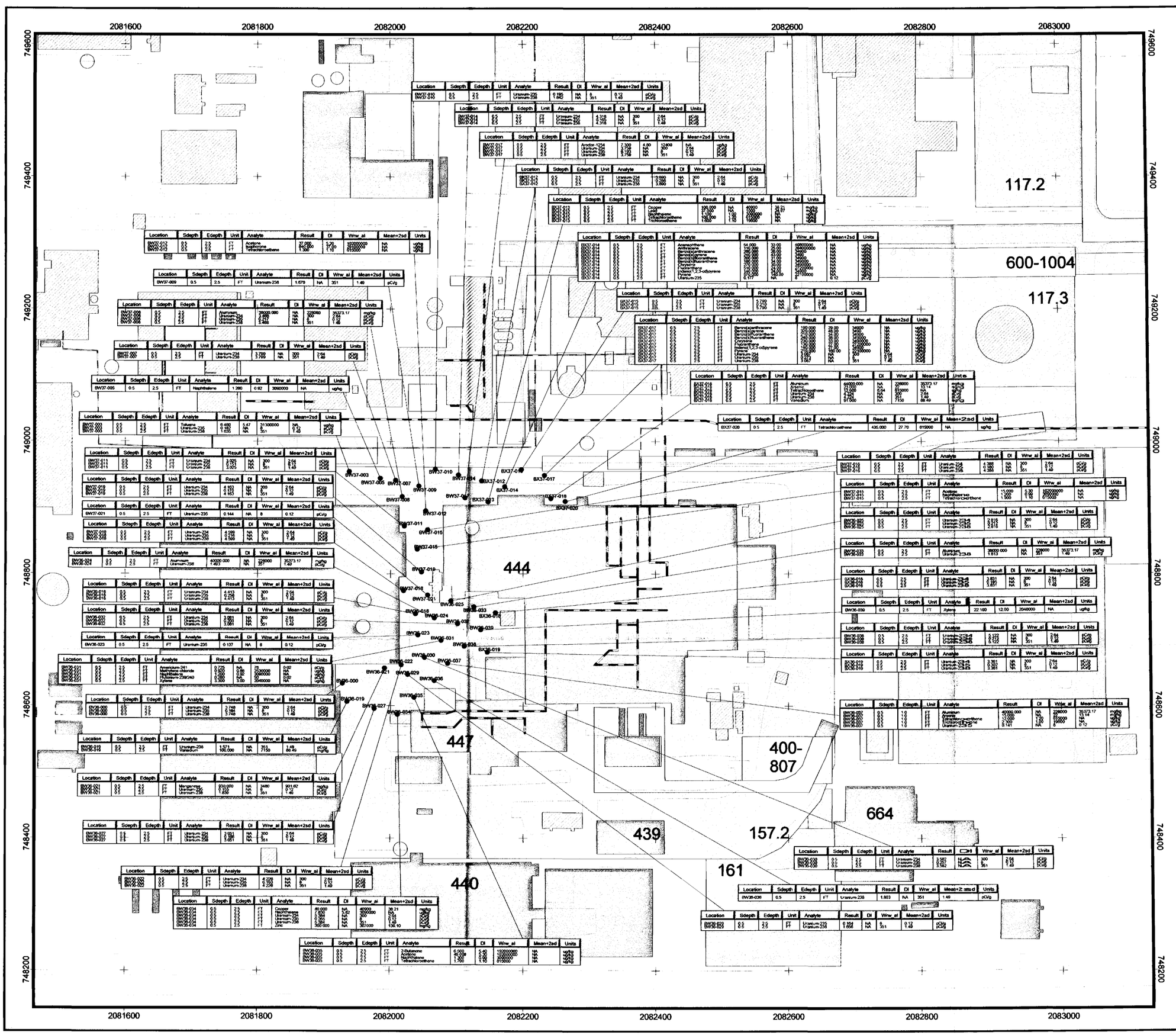

Figure 8
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Subsurface Soil Northwest Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

N
W E
S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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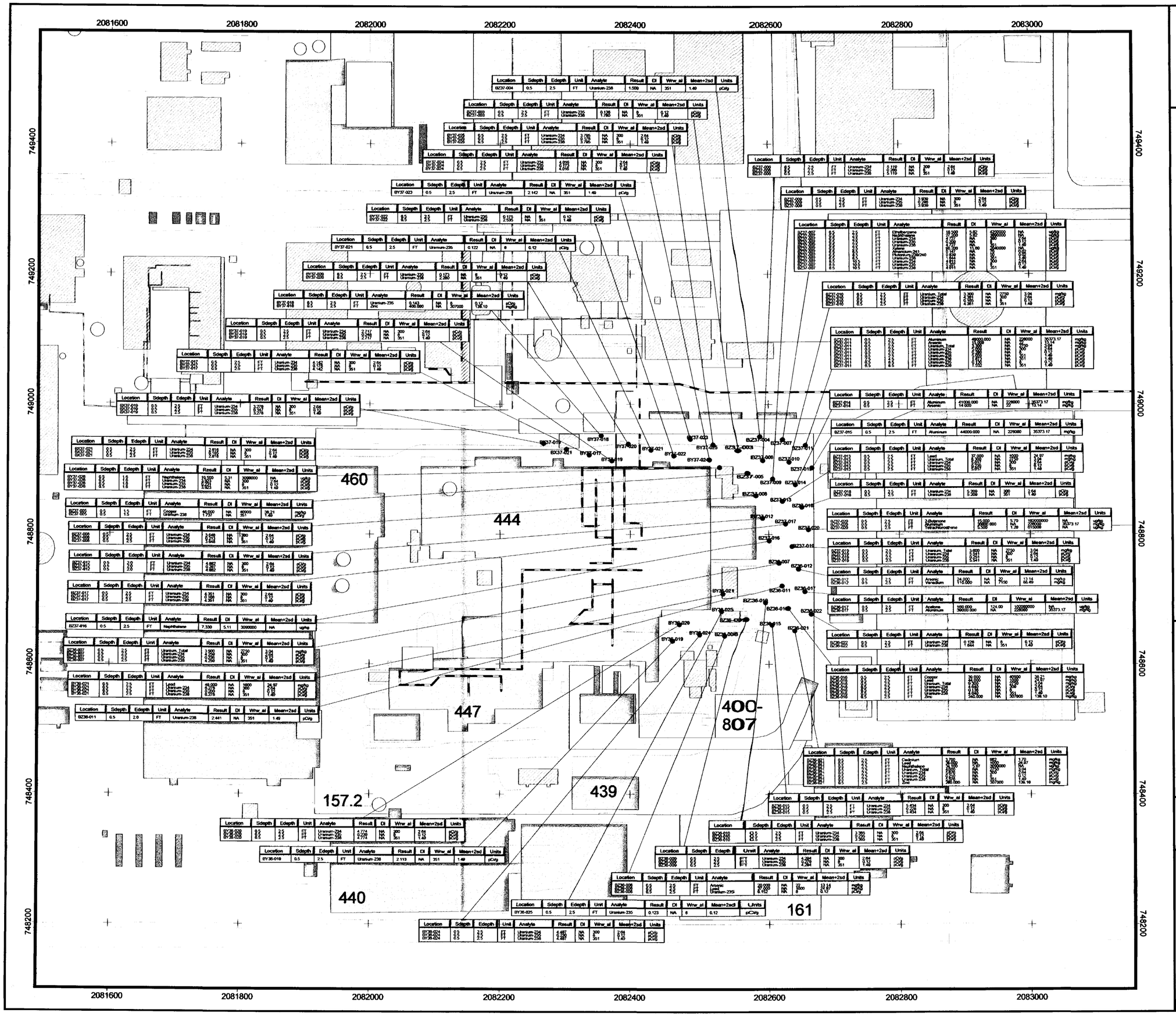

Figure 7
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Subsurface Soil Northeast Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

N W E S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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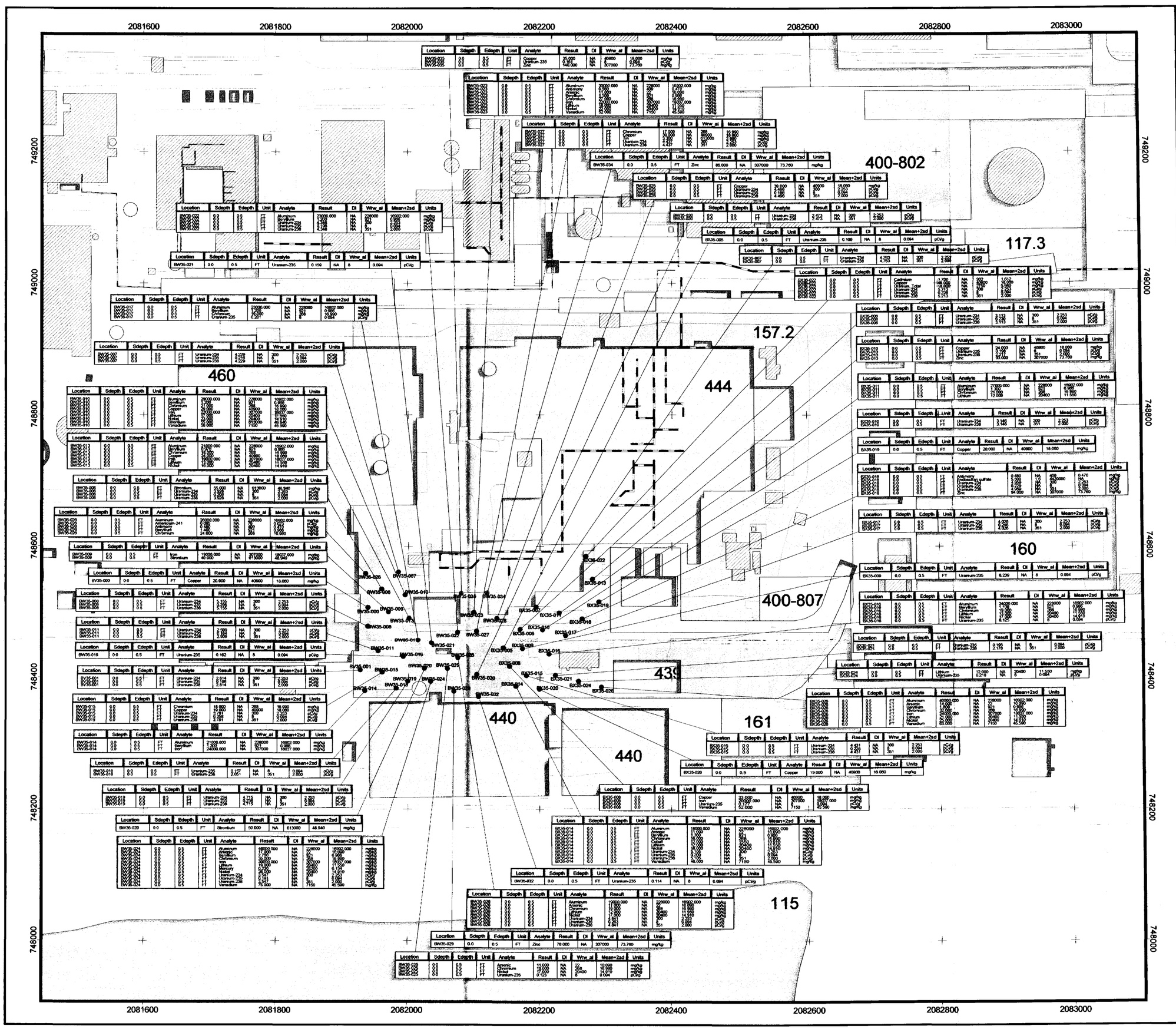

Figure 6
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Surface Soil Southwest Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

N
W E
S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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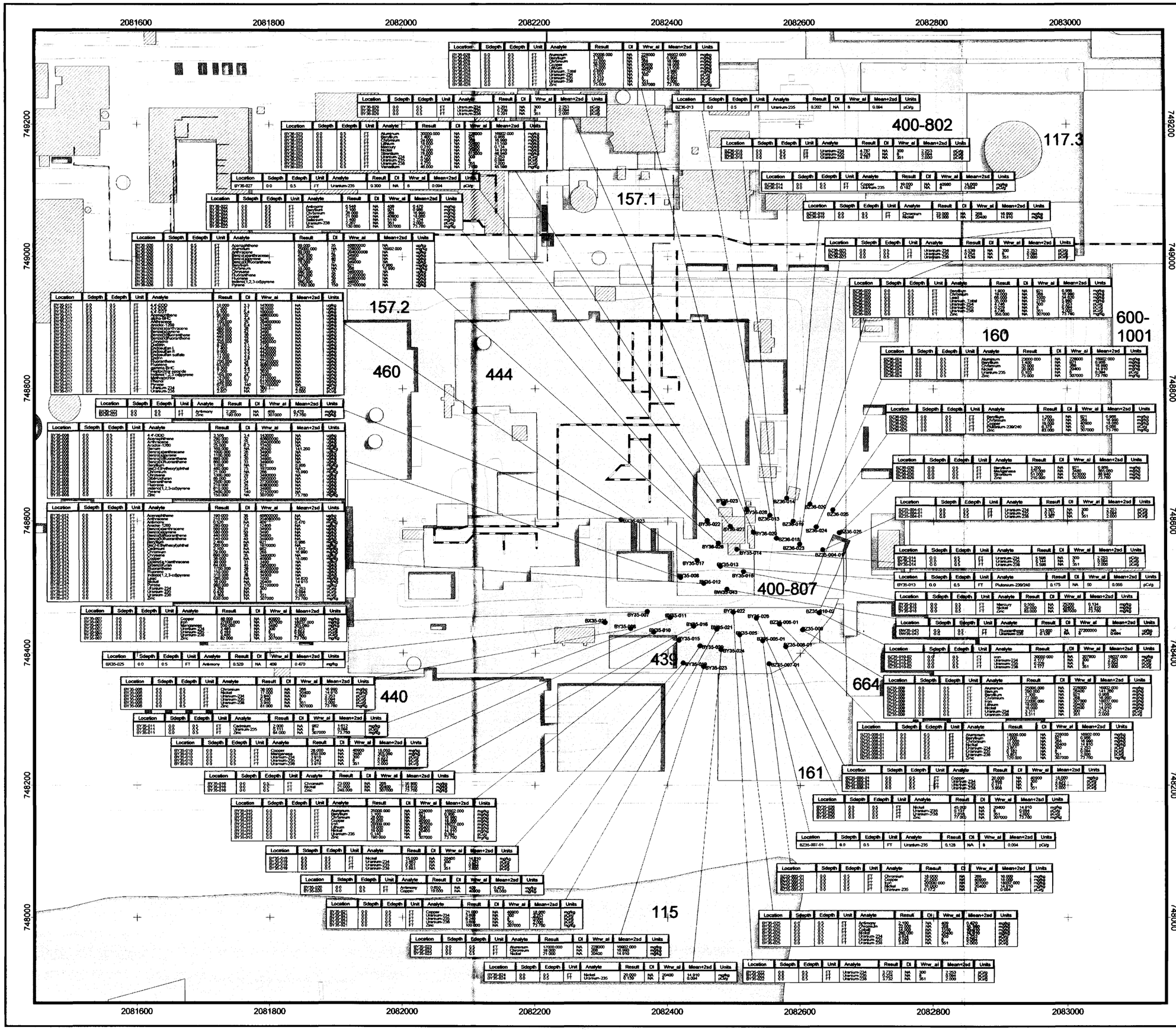

Figure 5
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Surface Soil Southeast Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL

IHSS Group 400-6 (IHSS 157.2)

Other IHSSs

PAC

New Process Waste Lines

Original Process Waste Lines

Paved Road

Building

Demolished

Standing

N
W E
S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
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Prepared for: KAISER•HILL COMPANY

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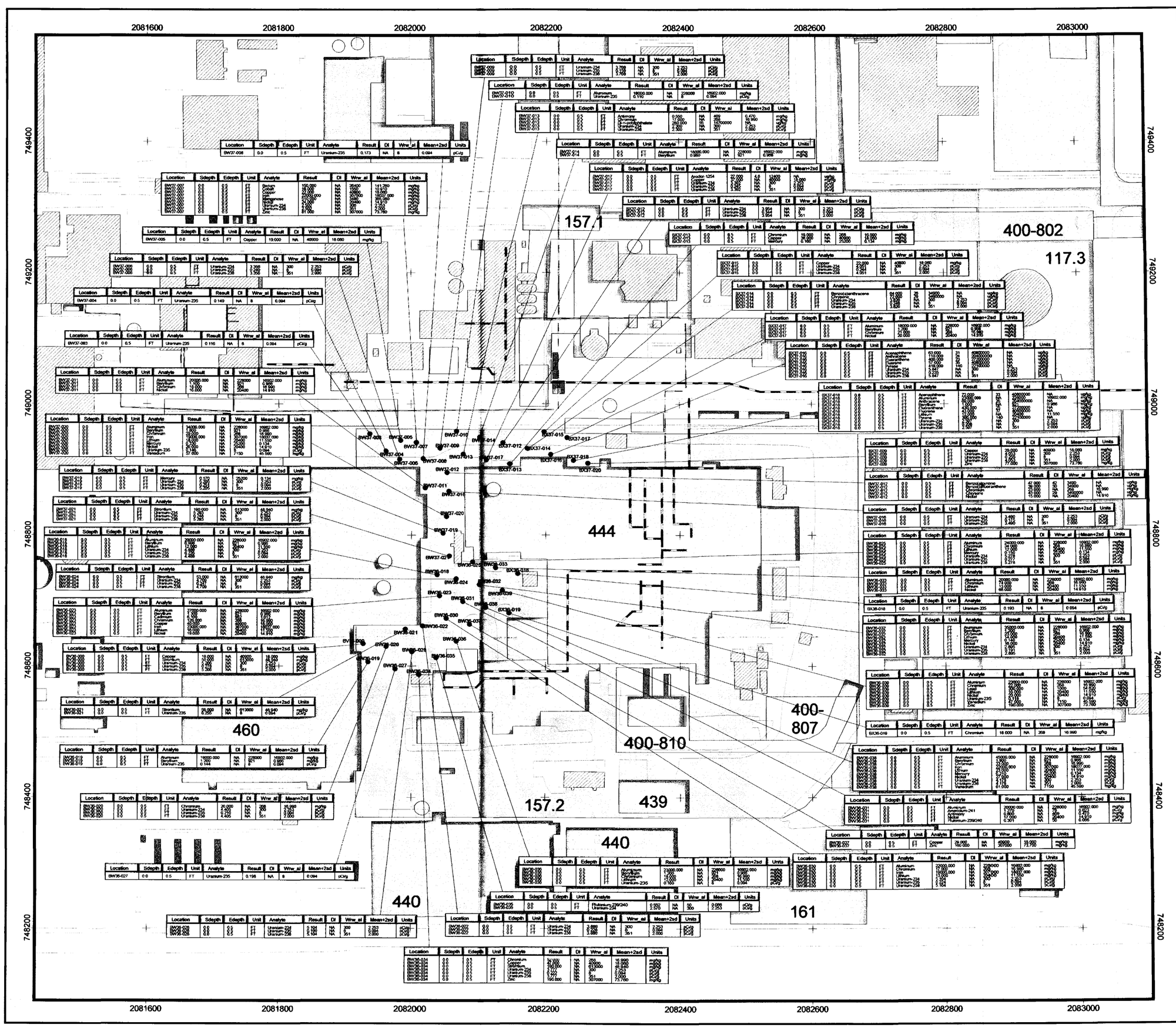

Figure 4
IHSS Group 400-6 Soil Results Greater Than Background Mean Plus Two Standard Deviations or RLs – Surface Soil Northwest Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

N W E S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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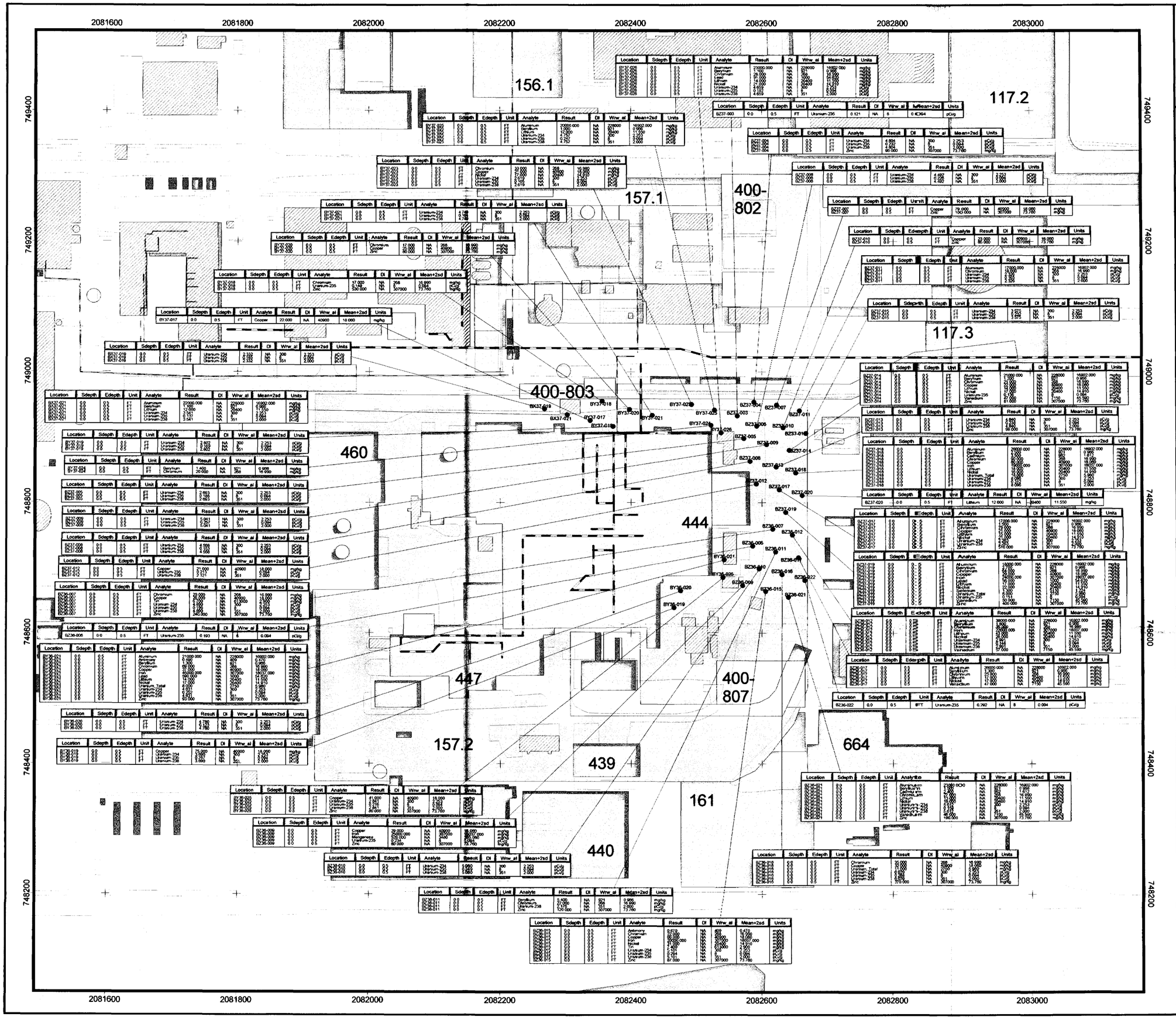

Figure 3
IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs -- Surface Soil Northeast Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL

IHSS Group 400-6 (IHSS 157.2)

Other IHSSs

PAC

New Process Waste Lines

Original Process Waste Lines

Paved Road

Building

Demolished

Standing

N
W E
S

50 0 50 100 150 Feet

Scale 1:1200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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