FINAL CLOSEOUT REPORT
FOR IHSS GROUP 600-2

PAC 400-802, Storage Shed South of Building 334

June 2003

CLOSEOUT REPORT
FOR IHSS GROUP 600-2

PAC 400-802, Storage Shed South of Building 334

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

June 2003

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ACRONYMS AND ABBREVIATIONS

AL	action level
AOC	Area of Concern
AR	Administrative Record
ASD	Analytical Services Division
CAD/ROD	Corrective Action Decision/Record of Decision
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CHWA	Colorado Hazardous Waste Act
CMS/FS	Corrective Measures Study/Feasibility Study
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
D&D	deactivation and decommissioning
DL	detection limit
DOE	U.S. Department of Energy
DQA	Data Quality Assessment
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
ER RSOP	Environmental Restoration RFCA Standard Operating Protocol
HPGe	high-purity germanium
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
K-H	Kaiser-Hill Company L.L.C.
LLW	low-level waste
mg/kg	milligrams per kilogram
N/A	not available
ND	not detected
NFAA	No Further Accelerated Action
NPWL	New Process Waste Lines
OPWL	Original Process Waste Lines
ppm	parts per billion
ppb	parts per million
PARCCS	precision, accuracy, representativeness, completeness, comparability, and sensitivity
PAC	Potential Area of Concern
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
PCOC	potential contaminant of concern

POC	Point of Compliance
POE	Point of Evaluation
PPE	personal protective equipment
RAO	remedial action objective
RCRA	Resource Conservation and Recovery Act
RFI/RI	RCRA Facility Investigation/Remedial Investigation
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RIN	report identification number
RL	reporting limit
RSOP	RFCA Standard Operating Protocol
SAP	Sampling and Analysis Plan
SOR	sum of ratio
SSRS	Subsurface Soil Risk Screen
SVOC	semivolatile organic compound
UBC	Under Building Contamination
ug/kg	micrograms per kilogram
VOC	volatile organic compound
V&V	verification and validation
WRW	Wildlife Refuge Worker

EXECUTIVE SUMMARY

This Closeout Report summarizes accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 600-2, Potential Area of Concern (PAC) 400-802, which is located at the Rocky Flats Environmental Technology Site (RFETS). Activities were planned and executed in accordance with the Industrial Area (IA) Sampling and Analysis Plan, (SAP) (IASAP), IASAP Addendum #IA-02-06, and the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation (ER RSOP). Notification of the planned characterization and removal activities was provided in ER RSOP Notification #02-07.

Activities were conducted between July 17 and August 21, 2002, and involved the removal of the slabs beneath Trailers T452G and T452F and associated asphalt-paved areas. New Process Waste Lines (NPWL), Original Process Waste Lines (OPWL), tanks, and sanitary lines were not associated with these trailers or slabs and none were removed.

The accelerated action also involved soil characterization. Accelerated action analytical results indicate that arsenic is above the RFCA Tier II action level (AL) in 24 surface soil locations and one subsurface soil location and benzo(a)pyrene is above the RFCA Tier II AL in one surface soil location. Preaccelerated action sample results identified benzo(a)pyrene above the RFCA Tier II AL in two surface soil locations. However, all analytical results are below the RFCA Wildlife Refuge Worker (WRW) and ecological receptor ALs. Results of the Data Quality Assessment (DQA) conducted confirmed that the data quality objectives (DQO) were attained relative to sampling power (number and types of samples), confidence in decisions (greater than 90%), and the various verification and validation (V&V) criteria applied.

Removal activities were consistent with and contributed to the ER RSOP overall long-term remedial action objectives (RAOs) for RFETS soil. Removal of the concrete slabs contributed to the protection of human health and the environment, because potential sources of contamination were removed. These actions also minimized the need for long-term maintenance and institutional or engineering controls because potential sources of contamination were removed or isolated. In addition, best management practices (BMPs) were used during the accelerated action to prevent the spread of contamination during the accelerated action (for example, erosion and dust controls). Air monitoring data during the accelerated action did not indicate any exceedances.

The Subsurface Soil Risk Screen (SSRS) conducted as part of this accelerated action indicates no further action is required. There is groundwater contamination in the area, but there may be multiple sources of this contamination. The groundwater contamination is considered part of the Industrial Area (IA) Plume, which will be further evaluated in a future decision document.

No IHSS Group-specific, near-term management techniques are required because of environmental conditions. Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process. Fencing and signs restricting access will be posted to minimize disturbance to newly revegetated areas. Site access and security controls and the Soil Disturbance Permit process will remain in place pending implementation of long-term controls.

The presence of radionuclides, metals, volatile organic compounds (VOCs), semivolatile (SVOCs), and polychlorinated biphynels (PCBs) in soils will be analyzed in the Site-Wide

Comprehensive Risk Assessment, which is part of the Resource Conservation Recovery Act (RCRA) Facility Investigation/Remedial Investigation (RFI/RI) and Corrective Measures Study/Feasibility Study (CMS/FS) that will be conducted for the Site. The need for and extent of any, more general, long-term stewardship activities will also be analyzed in the RFI/RI and CMS/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for RFETS will ultimately be contained in the Corrective Action Decision/Record of Decision (CAD/ROD), in any post-closure Colorado Hazardous Waste Act (CHWA) permit that may be required, and in any post-RFCA agreement.

No specific long-term stewardship activities are recommended for IHSS Group 600-2 beyond the generally applicable Site requirements that may be imposed on this area in the future, which depend on the final remedy selected. Institutional controls that will be used as appropriate for this area include prohibitions on construction of buildings in the IA, restrictions on excavation or other soil disturbance, or prohibitions on groundwater pumping in the area of IHSS Group 600-2.

No specific engineering controls or environmental monitoring are anticipated as a result of the conditions remaining at IHSS Group 600-2.

This Closeout Report and associated documentation will be retained as part of the RFETS Administrative Record (AR). The specific long-term stewardship recommendations will also be summarized in the Rocky Flats Long-Term Stewardship Strategy.

Approval of this Closeout Report constitutes regulatory agency concurrence that this IHSS Group is a No Further Accelerated Action (NFAA). This information and NFAA determination will be documented in the FY03 Historical Release Report (HRR).

1.0 INTRODUCTION

This Closeout Report summarizes the characterization and accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 600-2 at the Rocky Flats Environmental Technology Site (RFETS or Site) in Golden, Colorado. IHSS Group 600-2 consists of one Potential Area of Concern (PAC) identified as 400-802, which is the Storage Shed South of Building 334. The locations of IHSS Group 600-2 and PAC 400-802 are shown on Figure 1.

Accelerated action activities were planned and executed in accordance with the Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001), IASAP Addendum #IA-02-06 (DOE 2002a), and the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation (ER RSOP) (DOE 2002b). Notification of the planned activities was provided in ER RSOP Notification #02-07 (DOE 2002c), which was approved by the Colorado Department of Public Health and Environment (CDPHE) on July 9, 2002.

This report contains the information necessary to demonstrate attainment of cleanup objectives and final closure of IHSS Group 600-2, including:

- Site characterization information
  - Description of historical information for the PAC, including preaccelerated action activities
  - Description of site characterization activities
  - Site characterization data, including data tables and maps;
- Site accelerated action information
  - Description of the accelerated action, including the rationale for the action and map of the target remediation area
  - Photographs documenting site characterization and accelerated action activities;
- Description of near-term stewardship actions and long-term stewardship recommendations;
- Description of wastes generated;
- Description of site condition upon completion of accelerated action activities, including a map of residual contamination above background mean plus two standard deviations, detection limits (DLs)/Reporting Limits (RLs), and Tier II ALs, if any;
- Comparision of results to Wildlife Refuge Worker (WRW) and Ecological Receptor ALs (Appendix A);
- Description of site reclamation activities;

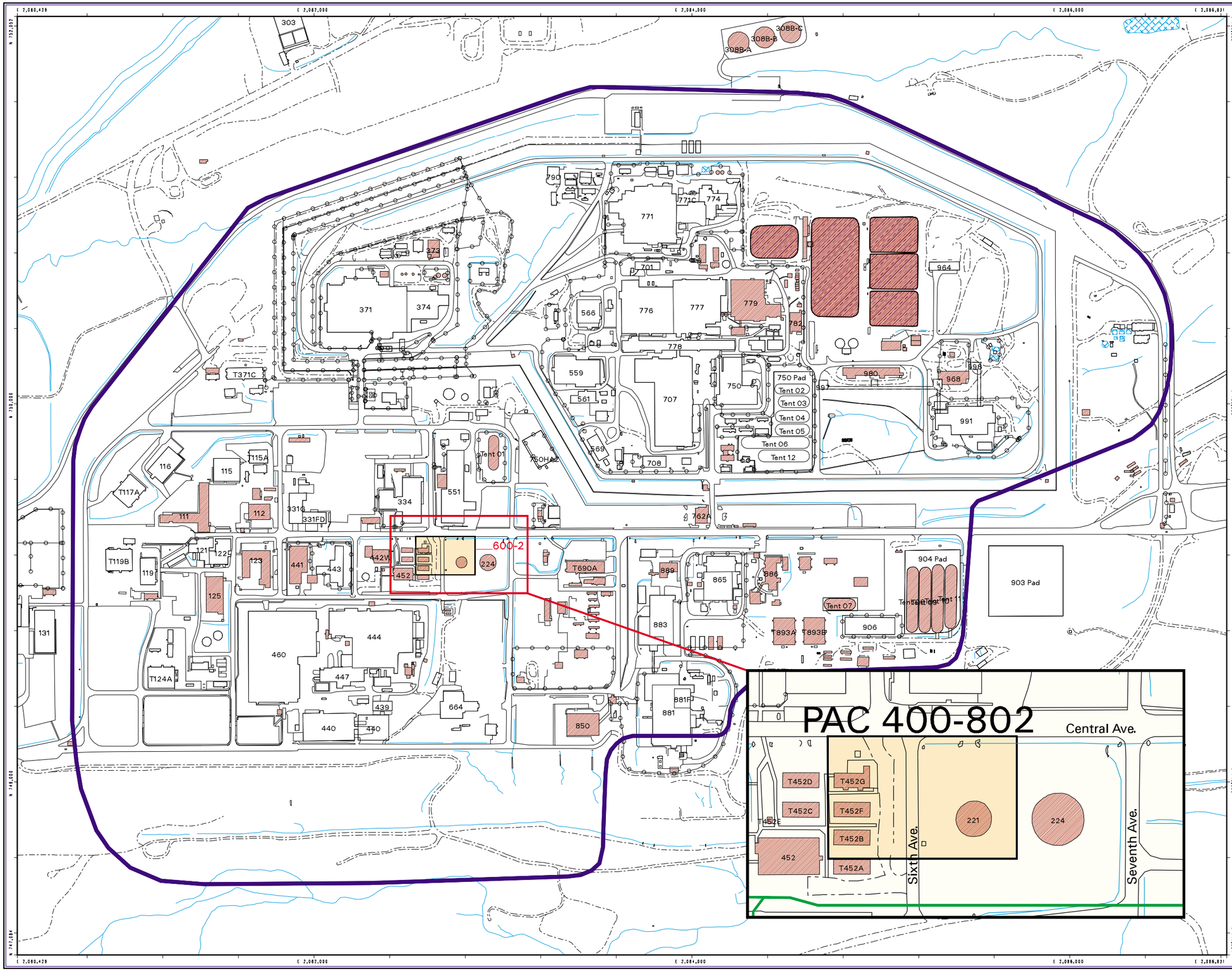

Figure 1

IHSS Group 600-2 Location Map

EXPLANATION

IHSS Groupings

600-2

Original Process Waste Lines (000-121)

Standard Map Features

Buildings and other structures

Demolished buildings and Other Structures

Solar Evaporation Ponds (SEPs)

Lakes and ponds

Streams, ditches, or other drainage features

Fences and other barriers

Paved roads

Dirt roads

Industrial Area Operable Unit Boundary

DATA SOURCE BASE FEATURES:

PACs
Historical Release Report (HRR)
2nd Annual Update
Sept. 30, 1997

Individual Hazardous Substance Sites (IHSS)
DOE, 1992, HRR Report and Subsequent Updates.

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

150 0 300 600ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

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

GIS Dept. 303-966-7707

Prepared by:

CH2MHILL

Prepared for:

KAISER-HILL COMPANY

June 02, 2003

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- Table of No Longer Representative (NLR) locations that have been remediated (if applicable); and
- Data Quality Assessment (DQA), including comparison of confirmation data with project data quality objectives (DQOs).

2.0 SITE CHARACTERIZATION

Characterization information for IHSS Group 600-2, PAC 400-802 includes historical knowledge and analytical data. Historical information for the PAC is presented below and analytical data are presented in Section 3.0.

The storage area south of Building 334 was originally a metal or wooden structure built on a concrete slab. A July 1955 aerial photograph indicates that the building had been removed and the remaining concrete slab was left in place but nothing was being stored on the pad. The first documented usage of storage was reported in October 1955, when 125 barrels of depleted uranium chips immersed in oil were stored there. After the drums developed leaks and contaminated the slab, they were removed. The slab was subsequently cleaned in November 1956. Although documentation indicates that contaminated drums stored on the concrete slab were removed, photographs indicate that storage of miscellaneous items continued at the site until 1969 (DOE 1992 - 2002).

3.0 ANALYTICAL DATA

As described in IASAP Addendum #IA-02-06 (DOE 2002a), potential contaminants of concern (PCOCs) at IHSS Group 600-2 were determined based on historical knowledge (DOE 1992-2002) and data collected during previous studies (DOE 2000a and DOE 2001). The preaccelerated action data greater than background or DL/RL are shown on Figure 2.

The results of the preaccelerated action at IHSS Group 600-2 indicate that benzo(a)pyrene was detected at concentrations above the RFCA Tier II AL at two locations in surface soil. Metals and semivolatile organic compounds (SVOCs) were detected in surface soil at concentrations greater than background or DL and radionuclides were detected in subsurface soil at activities greater than background. All of these results are below the RFCA WRW ALs and Ecological Receptor ALs shown in Appendix A.

The new characterization sampling locations planned in IASAP Addendum #IA-02-06 (DOE 2002a) are shown on Figure 3. The actual characterization sampling locations are shown on Figure 4. Differences between the planned and actual sampling locations are summarized in Table 1.

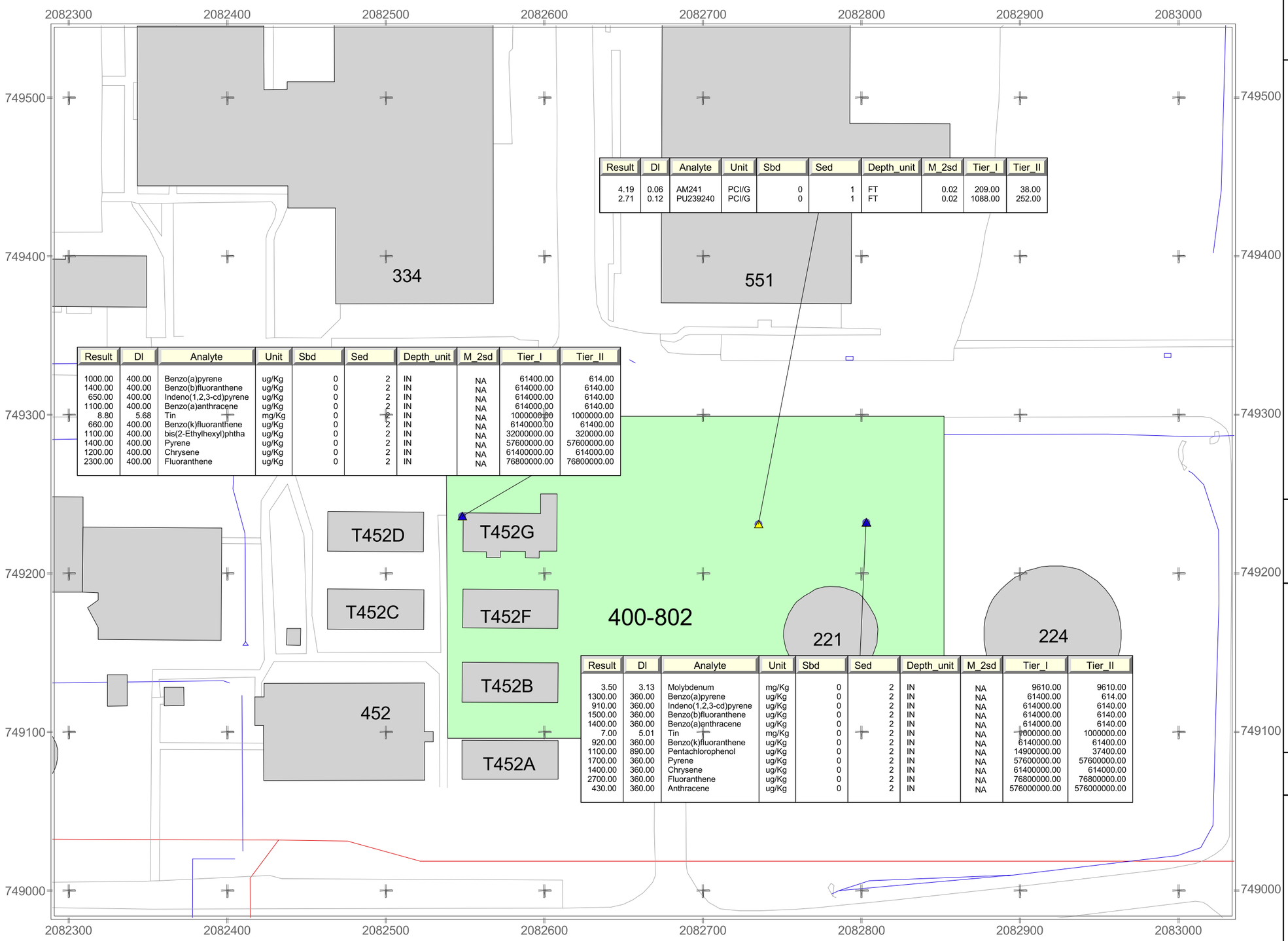
Table 2 details the characterization sampling specifications for IHSS Group 600-2. The characterization data are summarized by location in Tables 3 through 5, and by analyte in Tables 6 and 7. As shown on Figures 5 and 6, background exceedances and/or detections greater than the DLs occur at 24 locations in the surface soil and 1 location in the subsurface soil within the

IHSS Group. Benzo(a)pyrene is above the RFCA Tier II AL in one surface soil location, but well below the RFCA Tier I AL.

In addition, data from sampling locations identified in IASAP Addendum #IA-02-05 (DOE 2002d) for IHSS Group 400-7 were used to characterize the northern side of PAC 400-802. Specifically, data from eight sample locations identified as BZ39-000, BZ39-001, BZ39-002, BZ39-003, BZ39-004, BZ39-005, CA39-000, and 452 North-Transformer were used. The differences between the planned and actual sampling locations are summarized in Table 1. Sampling locations with results above background or DL/RL are shown on Figures 7 and 8 and are summarized in Table 5. Two surface soil locations contained benzo(a)pyrene concentrations above the RFCA Tier II AL, but well below the RFCA Tier I AL. All of these analytical results are below the RFCA WRW ALs and Ecological Receptor ALs shown in Appendix A.

The Area of Concern (AOC) is shown on Figure 9. Characterization sample sum of ratios (SORs) for radionuclides are listed in Tables 8 and 9 and shown on Figures 10 and 11. Tier II SORs for radionuclides did not exceed the threshold value of 1.

Residual contamination at this IHSS Group is listed in Table 11 and shown on Figures 12 and 13. The DQA is presented in Section 10.0 and Tables 12 through 19. The raw analytical data as of June 4, 2003 is enclosed on a compact disc.



Result	Dl	Analyte	Unit	Sbd	Sed	Depth_unit	M_2sd	Tier_I	Tier_II
4.19	0.06	AM241	PCI/G	0	1	FT	0.02	209.00	38.00
2.71	0.12	PU239240	PCI/G	0	1	FT	0.02	1088.00	252.00

Result	Dl	Analyte	Unit	Sbd	Sed	Depth_unit	M_2sd	Tier_I	Tier_II
1000.00	400.00	Benzo(a)pyrene	ug/Kg	0	2	IN	NA	61400.00	614.00
1400.00	400.00	Benzo(b)fluoranthene	ug/Kg	0	2	IN	NA	614000.00	6140.00
650.00	400.00	Indeno(1,2,3-cd)pyrene	ug/Kg	0	2	IN	NA	614000.00	6140.00
1100.00	400.00	Benzo(a)anthracene	ug/Kg	0	2	IN	NA	614000.00	6140.00
8.80	5.68	Tin	mg/Kg	0	2	IN	NA	1000000.00	1000000.00
660.00	400.00	Benzo(k)fluoranthene	ug/Kg	0	2	IN	NA	6140000.00	61400.00
1100.00	400.00	bis(2-Ethylhexyl)phtha	ug/Kg	0	2	IN	NA	32000000.00	320000.00
1400.00	400.00	Pyrene	ug/Kg	0	2	IN	NA	57600000.00	57600000.00
1200.00	400.00	Chrysene	ug/Kg	0	2	IN	NA	61400000.00	614000.00
2300.00	400.00	Fluoranthene	ug/Kg	0	2	IN	NA	76800000.00	76800000.00

Result	Dl	Analyte	Unit	Sbd	Sed	Depth_unit	M_2sd	Tier_I	Tier_II
3.50	3.13	Molybdenum	mg/Kg	0	2	IN	NA	9610.00	9610.00
1300.00	360.00	Benzo(a)pyrene	ug/Kg	0	2	IN	NA	61400.00	614.00
910.00	360.00	Indeno(1,2,3-cd)pyrene	ug/Kg	0	2	IN	NA	614000.00	6140.00
1500.00	360.00	Benzo(b)fluoranthene	ug/Kg	0	2	IN	NA	614000.00	6140.00
1400.00	360.00	Benzo(a)anthracene	ug/Kg	0	2	IN	NA	614000.00	6140.00
7.00	5.01	Tin	mg/Kg	0	2	IN	NA	1000000.00	1000000.00
920.00	360.00	Benzo(k)fluoranthene	ug/Kg	0	2	IN	NA	6140000.00	61400.00
1100.00	890.00	Pentachlorophenol	ug/Kg	0	2	IN	NA	14900000.00	37400.00
1700.00	360.00	Pyrene	ug/Kg	0	2	IN	NA	57600000.00	57600000.00
1400.00	360.00	Chrysene	ug/Kg	0	2	IN	NA	61400000.00	614000.00
2700.00	360.00	Fluoranthene	ug/Kg	0	2	IN	NA	76800000.00	76800000.00
430.00	360.00	Anthracene	ug/Kg	0	2	IN	NA	576000000.00	576000000.00

Figure 2
Pre-Accelerated Action Results with RFCA Action Levels and Above Background or Detection Limits at IHSS Group 600-2

KEY

- Surface Results Above RFCA Tier II AL
- Subsurface Results Below RFCA Tier II AL
- PAC
- Building
- Streams
- Paved Roads
- Pipes
- Npwl

Notes:
Sbd = Sample begin depth
Sed = Sample end depth
Dl = Detection limit
M_2sd = Background Mean Plus Two Standard Deviations

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N W E S

20 0 20 40 60 Feet

Scale = 1: 750

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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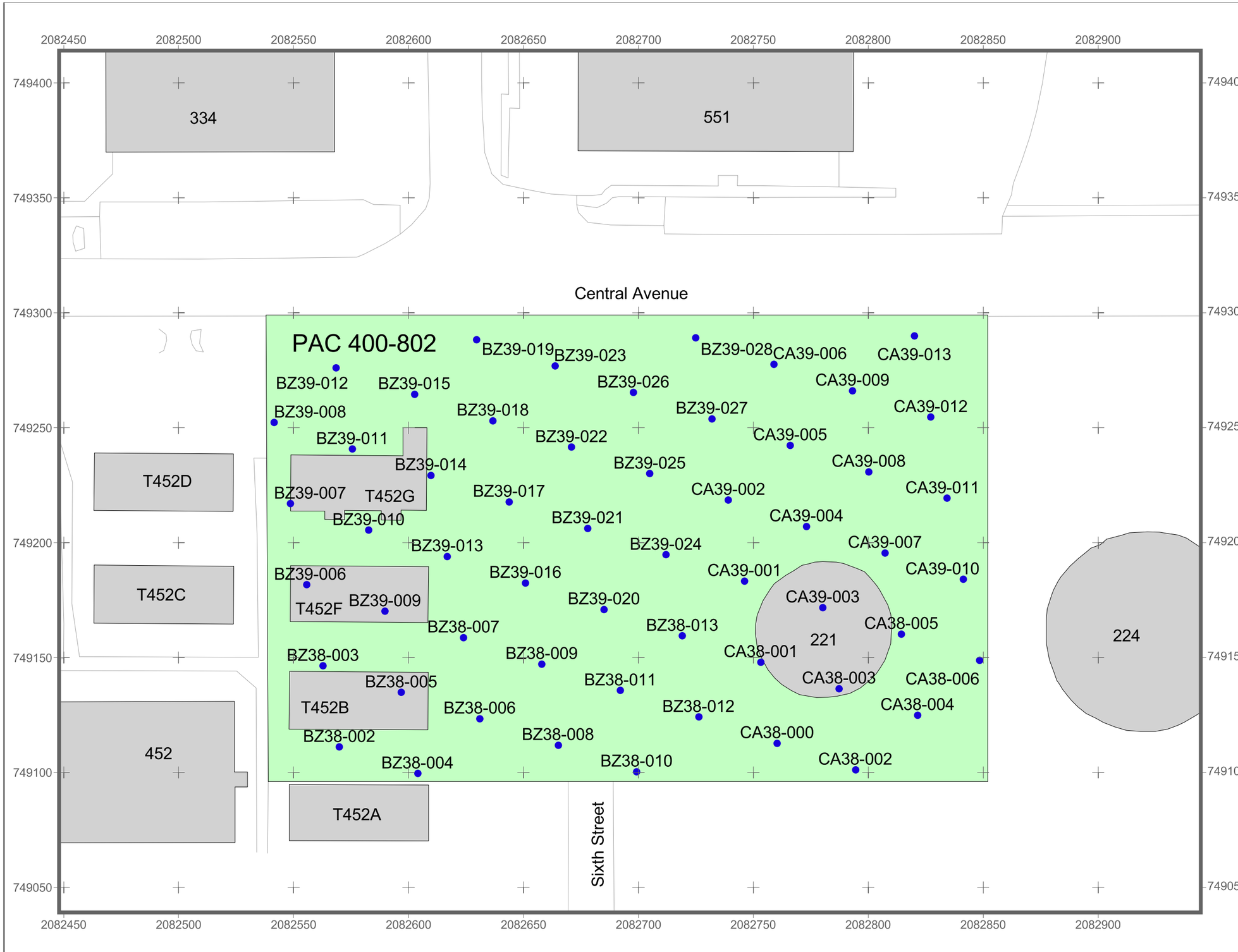

Figure 3
IHSS Group 600-2
Planned Characterization Sampling Locations

KEY

- Planned Sampling Location
- PAC
- Building
- Paved Roads

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N W E S

20 0 20 40 60 Feet

Scale = 1: 500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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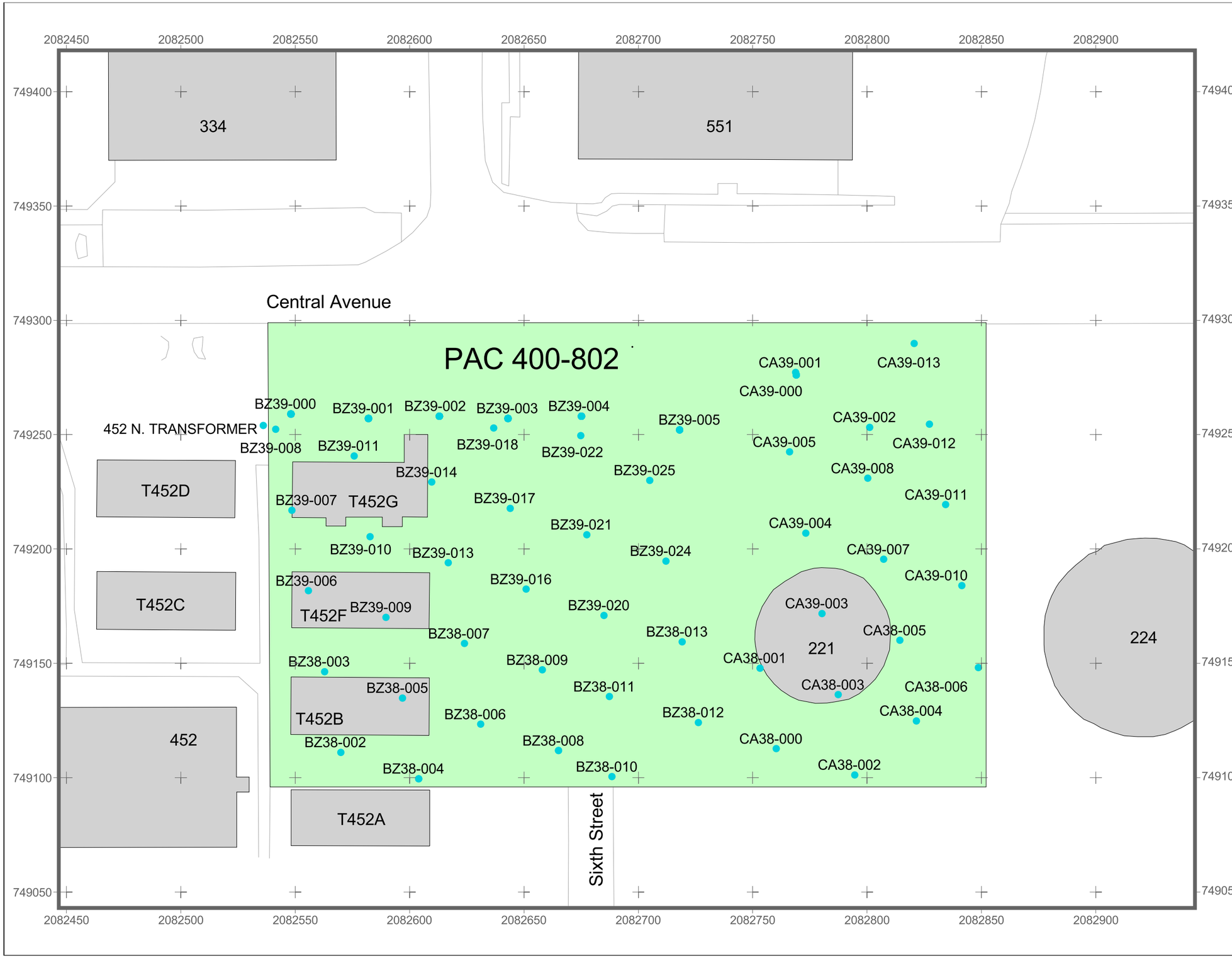

Figure 4
IHSS Group 600-2
Actual Characterization Sampling Locations

KEY

- Actual Sampling Location
- Building/Structure
- PAC
- Paved Road
- OPWL
- NPWL

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N W E S

20 0 20 40 60 Feet

Scale = 1: 500

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Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
PAC 400-802, Storage Shed South of Building 334	BZ38-A002	Surface Soil	2082569.81	749110.99	2082569.81	749110.99	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A002	Surface Soil	2082569.81	749110.99	2082569.81	749110.99	0	0.5	Metals	
	BZ38-A002	Surface Soil	2082569.81	749110.99	2082569.81	749110.99	0	0.5	SVOCs	
	BZ38-B002	Subsurface Soil	2082569.81	749110.99	2082569.81	749110.99	0.5	2.5	Radionuclides	
	BZ38-B002	Subsurface Soil	2082569.81	749110.99	2082569.81	749110.99	0.5	2.5	VOCs	
	BZ38-A003	Surface Soil	2082562.72	749146.28	2082562.72	749146.28	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A003	Surface Soil	2082562.72	749146.28	2082562.72	749146.28	0	0.5	Metals	
	BZ38-A003	Surface Soil	2082562.72	749146.28	2082562.72	749146.28	0	0.5	SVOCs	
	BZ38-B003	Subsurface Soil	2082562.72	749146.28	2082562.72	749146.28	0.5	2.5	Radionuclides	
	BZ38-B003	Subsurface Soil	2082562.72	749146.28	2082562.72	749146.28	0.5	2.5	VOCs	
	BZ38-A004	Surface Soil	2082603.93	749099.49	2082603.93	749099.49	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A004	Surface Soil	2082603.93	749099.49	2082603.93	749099.49	0	0.5	Metals	
	BZ38-A004	Surface Soil	2082603.93	749099.49	2082603.93	749099.49	0	0.5	SVOCs	
	BZ38-B004	Subsurface Soil	2082603.93	749099.49	2082603.93	749099.49	0.5	2.5	Radionuclides	
	BZ38-B004	Subsurface Soil	2082603.93	749099.49	2082603.93	749099.49	0.5	2.5	VOCs	
	BZ38-A005	Surface Soil	2082596.83	749134.78	2082596.83	749134.78	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A005	Surface Soil	2082596.83	749134.78	2082596.83	749134.78	0	0.5	Metals	
	BZ38-A005	Surface Soil	2082596.83	749134.78	2082596.83	749134.78	0	0.5	SVOCs	
	BZ38-B005	Subsurface Soil	2082596.83	749134.78	2082596.83	749134.78	0.5	2.5	Radionuclides	
	BZ38-B005	Subsurface Soil	2082596.83	749134.78	2082596.83	749134.78	0.5	2.5	VOCs	
	BZ38-A006	Surface Soil	2082630.94	749123.28	2082630.94	749123.28	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A006	Surface Soil	2082630.94	749123.28	2082630.94	749123.28	0	0.5	Metals	
	BZ38-A006	Surface Soil	2082630.94	749123.28	2082630.94	749123.28	0	0.5	SVOCs	
	BZ38-B006	Subsurface Soil	2082630.94	749123.28	2082630.94	749123.28	0.5	2.5	Radionuclides	
	BZ38-B006	Subsurface Soil	2082630.94	749123.28	2082630.94	749123.28	0.5	2.5	VOCs	
	BZ38-A007	Surface Soil	2082623.85	749158.58	2082623.94	749158.57	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A007	Surface Soil	2082623.85	749158.58	2082623.94	749158.57	0	0.5	Metals	
	BZ38-A007	Surface Soil	2082623.85	749158.58	2082623.94	749158.57	0	0.5	SVOCs	
	BZ38-B007	Subsurface Soil	2082623.85	749158.58	2082623.94	749158.57	0.5	2.5	Radionuclides	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ38-B007	Subsurface Soil	2082623.85	749158.58	2082623.94	749158.57	0.5	2.5	VOCs	
	BZ38-A008	Surface Soil	2082665.06	749111.78	2082665.06	749111.78	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A008	Surface Soil	2082665.06	749111.78	2082665.06	749111.78	0	0.5	Metals	
	BZ38-A008	Surface Soil	2082665.06	749111.78	2082665.06	749111.78	0	0.5	SVOCs	
	BZ38-B008	Subsurface Soil	2082665.06	749111.78	2082665.06	749111.78	0.5	2.5	Radionuclides	
	BZ38-B008	Subsurface Soil	2082665.06	749111.78	2082665.06	749111.78	0.5	2.5	VOCs	
	BZ38-A009	Surface Soil	2082657.96	749147.08	2082657.96	749147.08	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A009	Surface Soil	2082657.96	749147.08	2082657.96	749147.08	0	0.5	Metals	
	BZ38-A009	Surface Soil	2082657.96	749147.08	2082657.96	749147.08	0	0.5	SVOCs	
	BZ38-B009	Subsurface Soil	2082657.96	749147.08	2082657.96	749147.08	0.5	2.5	Radionuclides	
	BZ38-B009	Subsurface Soil	2082657.96	749147.08	2082657.96	749147.08	0.5	2.5	VOCs	
	BZ38-A010	Surface Soil	2082699.17	749100.28	2082688.42	749100.37	0	0.5	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ38-A010	Surface Soil	2082699.17	749100.28	2082688.42	749100.37	0	0.5	Metals	
	BZ38-A010	Surface Soil	2082699.17	749100.28	2082688.42	749100.37	0	0.5	SVOCs	
	BZ38-B010	Subsurface Soil	2082699.17	749100.28	2082688.42	749100.37	0.5	2.5	Radionuclides	
	BZ38-B010	Subsurface Soil	2082699.17	749100.28	2082688.42	749100.37	0.5	2.5	VOCs	
	BZ38-A011	Surface Soil	2082692.07	749135.58	2082687.31	749135.37	0	0.5	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ38-A011	Surface Soil	2082692.07	749135.58	2082687.31	749135.37	0	0.5	Metals	
	BZ38-A011	Surface Soil	2082692.07	749135.58	2082687.31	749135.37	0	0.5	SVOCs	
	BZ38-B011	Subsurface Soil	2082692.07	749135.58	2082687.31	749135.37	0.5	2.5	Radionuclides	
	BZ38-B011	Subsurface Soil	2082692.07	749135.58	2082687.31	749135.37	0.5	2.5	VOCs	
	BZ38-A012	Surface Soil	2082726.19	749124.07	2082726.04	749123.99	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A012	Surface Soil	2082726.19	749124.07	2082726.04	749123.99	0	0.5	Metals	
	BZ38-A012	Surface Soil	2082726.19	749124.07	2082726.04	749123.99	0	0.5	SVOCs	
	BZ38-B012	Subsurface Soil	2082726.19	749124.07	2082726.04	749123.99	0.5	2.5	Radionuclides	
	BZ38-B012	Subsurface Soil	2082726.19	749124.07	2082726.04	749123.99	0.5	2.5	VOCs	
	BZ38-A013	Surface Soil	2082719.09	749159.37	2082719.11	749159.23	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ38-A013	Surface Soil	2082719.09	749159.37	2082719.11	749159.23	0	0.5	Metals	
	BZ38-A013	Surface Soil	2082719.09	749159.37	2082719.11	749159.23	0	0.5	SVOCs	
	BZ38-B013	Subsurface Soil	2082719.09	749159.37	2082719.11	749159.23	0.5	2.5	Radionuclides	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ38-B013	Subsurface Soil	2082719.09	749159.37	2082719.11	749159.23	0.5	2.5	VOCs	
	BZ39-A006	Surface Soil	2082555.62	749181.58	2082555.68	749181.65	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A006	Surface Soil	2082555.62	749181.58	2082555.68	749181.65	0	0.5	Metals	
	BZ39-A006	Surface Soil	2082555.62	749181.58	2082555.68	749181.65	0	0.5	SVOCs	
	BZ39-B006	Subsurface Soil	2082555.62	749181.58	2082555.68	749181.65	0.5	2.5	Radionuclides	
	BZ39-B006	Subsurface Soil	2082555.62	749181.58	2082555.68	749181.65	0.5	2.5	VOCs	
	BZ39-A007	Surface Soil	2082548.52	749216.87	2082548.52	749216.87	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A007	Surface Soil	2082548.52	749216.87	2082548.52	749216.87	0	0.5	Metals	
	BZ39-A007	Surface Soil	2082548.52	749216.87	2082548.52	749216.87	0	0.5	SVOCs	
	BZ39-A007	Surface Soil	2082548.52	749216.87	2082548.52	749216.87	0	0.5	PCBs	
	BZ39-B007	Subsurface Soil	2082548.52	749216.87	2082548.52	749216.87	0.5	2.5	Radionuclides	
	BZ39-B007	Subsurface Soil	2082548.52	749216.87	2082548.52	749216.87	0.5	2.5	VOCs	
	BZ39-B007	Subsurface Soil	2082548.52	749216.87	2082548.52	749216.87	0.5	2.5	PCBs	
	BZ39-A008	Surface Soil	2082541.42	749252.16	2082541.43	749252.24	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A008	Surface Soil	2082541.42	749252.16	2082541.43	749252.24	0	0.5	Metals	
	BZ39-A008	Surface Soil	2082541.42	749252.16	2082541.43	749252.24	0	0.5	SVOCs	
	BZ39-B008	Subsurface Soil	2082541.42	749252.16	2082541.43	749252.24	0.5	2.5	Radionuclides	
	BZ39-B008	Subsurface Soil	2082541.42	749252.16	2082541.43	749252.24	0.5	2.5	VOCs	
	BZ39-A009	Surface Soil	2082589.73	749170.08	2082589.66	749170.02	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A009	Surface Soil	2082589.73	749170.08	2082589.66	749170.02	0	0.5	Metals	
	BZ39-A009	Surface Soil	2082589.73	749170.08	2082589.66	749170.02	0	0.5	SVOCs	
	BZ39-B009	Subsurface Soil	2082589.73	749170.08	2082589.66	749170.02	0.5	2.5	Radionuclides	
	BZ39-B009	Subsurface Soil	2082589.73	749170.08	2082589.66	749170.02	0.5	2.5	VOCs	
	BZ39-A010	Surface Soil	2082582.63	749205.37	2082582.63	749205.37	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A010	Surface Soil	2082582.63	749205.37	2082582.63	749205.37	0	0.5	Metals	
	BZ39-A010	Surface Soil	2082582.63	749205.37	2082582.63	749205.37	0	0.5	SVOCs	
	BZ39-A010	Surface Soil	2082582.63	749205.37	2082582.63	749205.37	0	0.5	PCBs	
	BZ39-B010	Subsurface Soil	2082582.63	749205.37	2082582.63	749205.37	0.5	2.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-B010	Subsurface Soil	2082582.63	749205.37	2082582.63	749205.37	0.5	2.5	VOCs	
	BZ39-B010	Subsurface Soil	2082582.63	749205.37	2082582.63	749205.37	0.5	2.5	PCBs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ39-A011	Surface Soil	2082575.54	749240.66	2082575.64	749240.65	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A011	Surface Soil	2082575.54	749240.66	2082575.64	749240.65	0	0.5	Metals	
	BZ39-A011	Surface Soil	2082575.54	749240.66	2082575.64	749240.65	0	0.5	SVOCs	
	BZ39-A011	Surface Soil	2082575.54	749240.66	2082575.64	749240.65	0	0.5	PCBs	
	BZ39-B011	Subsurface Soil	2082575.54	749240.66	2082575.64	749240.65	0.5	2.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-B011	Subsurface Soil	2082575.54	749240.66	2082575.64	749240.65	0.5	2.5	VOCs	
	BZ39-B011	Subsurface Soil	2082575.54	749240.66	2082575.64	749240.65	0.5	2.5	PCBs	
	BZ39-A012	Surface Soil	2082568.44	749275.96	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A012	Surface Soil	2082568.44	749275.96			-	-	Metals	
	BZ39-A012	Surface Soil	2082568.44	749275.96			-	-	SVOCs	
	BZ39-B012	Subsurface Soil	2082568.44	749275.96			-	-	Radionuclides	
	BZ39-B012	Subsurface Soil	2082568.44	749275.96			-	-	VOCs	
	BZ39-A013	Surface Soil	2082616.75	749193.87	2082616.82	749193.86	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A013	Surface Soil	2082616.75	749193.87	2082616.82	749193.86	0	0.5	Metals	
	BZ39-A013	Surface Soil	2082616.75	749193.87	2082616.82	749193.86	0	0.5	SVOCs	
	BZ39-A013	Surface Soil	2082616.75	749193.87	2082616.82	749193.86	0	0.5	PCBs	
	BZ39-B013	Subsurface Soil	2082616.75	749193.87	2082616.82	749193.86	0.5	2.5	Radionuclides	
	BZ39-B013	Subsurface Soil	2082616.75	749193.87	2082616.82	749193.86	0.5	2.5	VOCs	
	BZ39-B013	Subsurface Soil	2082616.75	749193.87	2082616.82	749193.86	0.5	2.5	PCBs	
	BZ39-A014	Surface Soil	2082609.65	749229.16	2082609.65	749229.16	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A014	Surface Soil	2082609.65	749229.16	2082609.65	749229.16	0	0.5	Metals	
	BZ39-A014	Surface Soil	2082609.65	749229.16	2082609.65	749229.16	0	0.5	SVOCs	
	BZ39-A014	Surface Soil	2082609.65	749229.16	2082609.65	749229.16	0	0.5	PCBs	
	BZ39-B014	Subsurface Soil	2082609.65	749229.16	2082609.65	749229.16	0.5	2.5	Radionuclides	
	BZ39-B014	Subsurface Soil	2082609.65	749229.16	2082609.65	749229.16	0.5	2.5	VOCs	
	BZ39-B014	Subsurface Soil	2082609.65	749229.16	2082609.65	749229.16	0.5	2.5	PCBs	
	BZ39-A015	Surface Soil	2082602.55	749264.46	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A015	Surface Soil	2082602.55	749264.46			-	-	Metals	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ39-A015	Surface Soil	2082602.55	749264.46	Samples Not Collected		-	-	SVOCs	
	BZ39-A015	Surface Soil	2082602.55	749264.46			-	-	PCBs	
	BZ39-B015	Subsurface Soil	2082602.55	749264.46			-	-	Radionuclides	
	BZ39-B015	Subsurface Soil	2082602.55	749264.46			-	-	VOCs	
	BZ39-B015	Subsurface Soil	2082602.55	749264.46			-	-	PCBs	
	BZ39-A016	Surface Soil	2082650.86	749182.37	2082650.86	749182.37	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A016	Surface Soil	2082650.86	749182.37	2082650.86	749182.37	0	0.5	Metals	
	BZ39-A016	Surface Soil	2082650.86	749182.37	2082650.86	749182.37	0	0.5	SVOCs	
	BZ39-B016	Subsurface Soil	2082650.86	749182.37	2082650.86	749182.37	0.5	2.5	Radionuclides	
	BZ39-B016	Subsurface Soil	2082650.86	749182.37	2082650.86	749182.37	0.5	2.5	VOCs	
	BZ39-A017	Surface Soil	2082643.76	749217.66	2082643.87	749217.69	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A017	Surface Soil	2082643.76	749217.66	2082643.87	749217.69	0	0.5	Metals	
	BZ39-A017	Surface Soil	2082643.76	749217.66	2082643.87	749217.69	0	0.5	SVOCs	
	BZ39-A017	Surface Soil	2082643.76	749217.66	2082643.87	749217.69	0	0.5	PCBs	
	BZ39-B017	Subsurface Soil	2082643.76	749217.66	2082643.87	749217.69	0.5	2.5	Radionuclides	
	BZ39-B017	Subsurface Soil	2082643.76	749217.66	2082643.87	749217.69	0.5	2.5	VOCs	
	BZ39-B017	Subsurface Soil	2082643.76	749217.66	2082643.87	749217.69	0.5	2.5	PCBs	
	BZ39-A018	Surface Soil	2082636.67	749252.96	2082636.68	749252.87	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A018	Surface Soil	2082636.67	749252.96	2082636.68	749252.87	0	0.5	Metals	
	BZ39-A018	Surface Soil	2082636.67	749252.96	2082636.68	749252.87	0	0.5	SVOCs	
	BZ39-B018	Subsurface Soil	2082636.67	749252.96	2082636.68	749252.87	0.5	2.5	Radionuclides	
	BZ39-B018	Subsurface Soil	2082636.67	749252.96	2082636.68	749252.87	0.5	2.5	VOCs	
	BZ39-A019	Surface Soil	2082629.57	749288.25	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A019	Surface Soil	2082629.57	749288.25			-	-	Metals	
	BZ39-A019	Surface Soil	2082629.57	749288.25			-	-	SVOCs	
	BZ39-B019	Subsurface Soil	2082629.57	749288.25			-	-	Radionuclides	
	BZ39-B019	Subsurface Soil	2082629.57	749288.25			-	-	VOCs	
	BZ39-A020	Surface Soil	2082684.98	749170.87	2082684.93	749170.91	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A020	Surface Soil	2082684.98	749170.87	2082684.93	749170.91	0	0.5	Metals	
	BZ39-A020	Surface Soil	2082684.98	749170.87	2082684.93	749170.91	0	0.5	SVOCs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ39-B020	Subsurface Soil	2082684.98	749170.87	2082684.93	749170.91	0.5	2.5	Radionuclides	
	BZ39-B020	Subsurface Soil	2082684.98	749170.87	2082684.93	749170.91	0.5	2.5	VOCs	
	BZ39-A021	Surface Soil	2082677.88	749206.16	2082677.35	749206.13	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A021	Surface Soil	2082677.88	749206.16	2082677.35	749206.13	0	0.5	Metals	
	BZ39-A021	Surface Soil	2082677.88	749206.16	2082677.35	749206.13	0	0.5	SVOCs	
	BZ39-B021	Subsurface Soil	2082677.88	749206.16	2082677.35	749206.13	0.5	2.5	Radionuclides	
	BZ39-B021	Subsurface Soil	2082677.88	749206.16	2082677.35	749206.13	0.5	2.5	VOCs	
	BZ39-A022	Surface Soil	2082670.78	749241.46	2082674.71	749249.55	0	0.5	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A022	Surface Soil	2082670.78	749241.46	2082674.71	749249.55	0	0.5	Metals	
	BZ39-A022	Surface Soil	2082670.78	749241.46	2082674.71	749249.55	0	0.5	SVOCs	
	BZ39-B022	Subsurface Soil	2082670.78	749241.46	2082674.71	749249.55	0.5	2.5	Radionuclides	
	BZ39-B022	Subsurface Soil	2082670.78	749241.46	2082674.71	749249.55	0.5	2.5	VOCs	
	BZ39-A023	Surface Soil	2082663.68	749276.75	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A023	Surface Soil	2082663.68	749276.75			-	-	Metals	
	BZ39-A023	Surface Soil	2082663.68	749276.75			-	-	SVOCs	
	BZ39-B023	Subsurface Soil	2082663.68	749276.75			-	-	Radionuclides	
	BZ39-B023	Subsurface Soil	2082663.68	749276.75			-	-	VOCs	
	BZ39-A024	Surface Soil	2082711.99	749194.66	2082711.99	749194.66	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A024	Surface Soil	2082711.99	749194.66	2082711.99	749194.66	0	0.5	Metals	
	BZ39-A024	Surface Soil	2082711.99	749194.66	2082711.99	749194.66	0	0.5	SVOCs	
	BZ39-B024	Subsurface Soil	2082711.99	749194.66	2082711.99	749194.66	0.5	2.5	Radionuclides	
	BZ39-B024	Subsurface Soil	2082711.99	749194.66	2082711.99	749194.66	0.5	2.5	VOCs	
	BZ39-A025	Surface Soil	2082704.89	749229.96	2082704.89	749229.96	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	BZ39-A025	Surface Soil	2082704.89	749229.96	2082704.89	749229.96	0	0.5	Metals	
	BZ39-A025	Surface Soil	2082704.89	749229.96	2082704.89	749229.96	0	0.5	SVOCs	
	BZ39-B025	Subsurface Soil	2082704.89	749229.96	2082704.89	749229.96	0.5	2.5	Radionuclides	
	BZ39-B025	Subsurface Soil	2082704.89	749229.96	2082704.89	749229.96	0.5	2.5	VOCs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ39-A026	Surface Soil	2082697.80	749265.25	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A026	Surface Soil	2082697.80	749265.25			-	-	Metals	
	BZ39-A026	Surface Soil	2082697.80	749265.25			-	-	SVOCs	
	BZ39-B026	Subsurface Soil	2082697.80	749265.25			-	-	Radionuclides	
	BZ39-B026	Subsurface Soil	2082697.80	749265.25			-	-	VOCs	
	BZ39-A027	Surface Soil	2082731.91	749253.75	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A027	Surface Soil	2082731.91	749253.75			-	-	Metals	
	BZ39-A027	Surface Soil	2082731.91	749253.75			-	-	SVOCs	
	BZ39-B027	Subsurface Soil	2082731.91	749253.75			-	-	Radionuclides	
	BZ39-B027	Subsurface Soil	2082731.91	749253.75			-	-	VOCs	
	BZ39-A028	Surface Soil	2082724.81	749289.04	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	BZ39-A028	Surface Soil	2082724.81	749289.04			-	-	Metals	
	BZ39-A028	Surface Soil	2082724.81	749289.04			-	-	SVOCs	
	BZ39-B028	Subsurface Soil	2082724.81	749289.04			-	-	Radionuclides	
	BZ39-B028	Subsurface Soil	2082724.81	749289.04			-	-	VOCs	
	CA38-A000	Surface Soil	2082760.30	749112.57	2082760.27	749112.57	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A000	Surface Soil	2082760.30	749112.57	2082760.27	749112.57	0	0.5	Metals	
	CA38-A000	Surface Soil	2082760.30	749112.57	2082760.27	749112.57	0	0.5	SVOCs	
	CA38-B000	Subsurface Soil	2082760.30	749112.57	2082760.27	749112.57	0.5	2.5	Radionuclides	
	CA38-B000	Subsurface Soil	2082760.30	749112.57	2082760.27	749112.57	0.5	2.5	VOCs	
	CA38-A001	Surface Soil	2082753.20	749147.87	2082753.13	749147.83	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A001	Surface Soil	2082753.20	749147.87	2082753.13	749147.83	0	0.5	Metals	
	CA38-A001	Surface Soil	2082753.20	749147.87	2082753.13	749147.83	0	0.5	SVOCs	
	CA38-B001	Subsurface Soil	2082753.20	749147.87	2082753.13	749147.83	0.5	2.5	Radionuclides	
	CA38-B001	Subsurface Soil	2082753.20	749147.87	2082753.13	749147.83	0.5	2.5	VOCs	
	CA38-A002	Surface Soil	2082794.41	749101.07	2082794.48	749101.07	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A002	Surface Soil	2082794.41	749101.07	2082794.48	749101.07	0	0.5	Metals	
	CA38-A002	Surface Soil	2082794.41	749101.07	2082794.48	749101.07	0	0.5	SVOCs	
	CA38-B002	Subsurface Soil	2082794.41	749101.07	2082794.48	749101.07	0.5	2.5	Radionuclides	
	CA38-B002	Subsurface Soil	2082794.41	749101.07	2082794.48	749101.07	0.5	2.5	VOCs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	CA38-A003	Surface Soil	2082787.32	749136.37	2082787.37	749136.22	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A003	Surface Soil	2082787.32	749136.37	2082787.37	749136.22	0	0.5	Metals	
	CA38-A003	Surface Soil	2082787.32	749136.37	2082787.37	749136.22	0	0.5	SVOCs	
	CA38-B003	Subsurface Soil	2082787.32	749136.37	2082787.37	749136.22	0.5	2.5	Radionuclides	
	CA38-B003	Subsurface Soil	2082787.32	749136.37	2082787.37	749136.22	0.5	2.5	VOCs	
	CA38-A004	Surface Soil	2082821.43	749124.87	2082821.46	749124.77	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A004	Surface Soil	2082821.43	749124.87	2082821.46	749124.77	0	0.5	Metals	
	CA38-A004	Surface Soil	2082821.43	749124.87	2082821.46	749124.77	0	0.5	SVOCs	
	CA38-B004	Subsurface Soil	2082821.43	749124.87	2082821.46	749124.77	0.5	2.5	Radionuclides	
	CA38-B004	Subsurface Soil	2082821.43	749124.87	2082821.46	749124.77	0.5	2.5	VOCs	
	CA38-A005	Surface Soil	2082814.33	749160.16	2082814.26	749159.97	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A005	Surface Soil	2082814.33	749160.16	2082814.26	749159.97	0	0.5	Metals	
	CA38-A005	Surface Soil	2082814.33	749160.16	2082814.26	749159.97	0	0.5	SVOCs	
	CA38-B005	Subsurface Soil	2082814.33	749160.16	2082814.26	749159.97	0.5	2.5	Radionuclides	
	CA38-B005	Subsurface Soil	2082814.33	749160.16	2082814.26	749159.97	0.5	2.5	VOCs	
	CA38-A006	Surface Soil	2082848.45	749148.66	2082848.53	749148.12	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA38-A006	Surface Soil	2082848.45	749148.66	2082848.53	749148.12	0	0.5	Metals	
	CA38-A006	Surface Soil	2082848.47	749148.66	2082848.53	749148.12	0	0.5	SVOCs	
	CA38-B006	Subsurface Soil	2082848.47	749148.66	2082848.53	749148.12	0.5	2.5	Radionuclides	
	CA38-B006	Subsurface Soil	2082848.47	749148.66	2082848.53	749148.12	0.5	2.5	VOCs	
	CA39-A001	Surface Soil	2082746.11	749183.16	2082768.68	749277.09	0	0.5	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	CA39-A001	Surface Soil	2082746.11	749183.16	2082768.68	749277.09	0	0.5	Metals	
	CA39-A001	Surface Soil	2082746.11	749183.16	2082768.68	749277.09	0	0.5	SVOCs	
	CA39-B001	Subsurface Soil	2082746.11	749183.16	2082768.68	749277.09	0.5	2.5	Radionuclides	
	CA39-B001	Subsurface Soil	2082746.11	749183.16	2082768.68	749277.09	0.5	2.5	VOCs	
	CA39-A002	Surface Soil	2082739.01	749218.45	2082801.07	749253.10	0	0.5	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	CA39-A002	Surface Soil	2082739.01	749218.45	2082801.07	749253.10	0	0.5	Metals	
	CA39-A002	Surface Soil	2082739.01	749218.45	2082801.07	749253.10	0	0.5	SVOCs	
	CA39-B002	Subsurface Soil	2082739.01	749218.45	2082801.07	749253.10	0.5	2.5	Radionuclides	
	CA39-B002	Subsurface Soil	2082739.01	749218.45	2082801.07	749253.10	0.5	2.5	VOCs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	CA39-A003	Surface Soil	2082780.22	749171.66	2082780.16	749171.73	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A003	Surface Soil	2082780.22	749171.66	2082780.16	749171.73	0	0.5	Metals	
	CA39-A003	Surface Soil	2082780.22	749171.66	2082780.16	749171.73	0	0.5	SVOCs	
	CA39-B003	Subsurface Soil	2082780.22	749171.66	2082780.16	749171.73	0.5	2.5	Radionuclides	
	CA39-B003	Subsurface Soil	2082780.22	749171.66	2082780.16	749171.73	0.5	2.5	VOCs	
	CA39-A004	Surface Soil	2082773.12	749206.95	2082773.10	749206.87	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A004	Surface Soil	2082773.12	749206.95	2082773.10	749206.87	0	0.5	Metals	
	CA39-A004	Surface Soil	2082773.12	749206.95	2082773.10	749206.87	0	0.5	SVOCs	
	CA39-B004	Subsurface Soil	2082773.12	749206.95	2082773.10	749206.87	0.5	2.5	Radionuclides	
	CA39-B004	Subsurface Soil	2082773.12	749206.95	2082773.10	749206.87	0.5	2.5	VOCs	
	CA39-A005	Surface Soil	2082766.02	749242.25	2082766.08	749242.35	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A005	Surface Soil	2082766.02	749242.25	2082766.08	749242.35	0	0.5	Metals	
	CA39-A005	Surface Soil	2082766.02	749242.25	2082766.08	749242.35	0	0.5	SVOCs	
	CA39-B005	Subsurface Soil	2082766.02	749242.25	2082766.08	749242.35	0.5	2.5	Radionuclides	
	CA39-B005	Subsurface Soil	2082766.02	749242.25	2082766.08	749242.35	0.5	2.5	VOCs	
	CA39-A006	Surface Soil	2082758.93	749277.54	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.
	CA39-A006	Surface Soil	2082758.93	749277.54			-	-	Metals	
	CA39-A006	Surface Soil	2082758.93	749277.54			-	-	SVOCs	
	CA39-B006	Subsurface Soil	2082758.93	749277.54			-	-	Radionuclides	
	CA39-B006	Subsurface Soil	2082758.93	749277.54			-	-	VOCs	
	CA39-A007	Surface Soil	2082807.24	749195.45	2082807.22	749195.40	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A007	Surface Soil	2082807.24	749195.45	2082807.22	749195.40	0	0.5	Metals	
	CA39-A007	Surface Soil	2082807.24	749195.45	2082807.22	749195.40	0	0.5	SVOCs	
	CA39-A007	Subsurface Soil	2082807.24	749195.45	2082807.22	749195.40	0.5	2.5	Radionuclides	
	CA39-A007	Subsurface Soil	2082807.24	749195.45	2082807.22	749195.40	0.5	2.5	VOCs	
	CA39-B008	Subsurface Soil	2082800.14	749230.75	2082800.18	749230.83	0.5	2.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-B008	Subsurface Soil	2082800.14	749230.75	2082800.18	749230.83	0.5	2.5	VOCs	
	CA39-A009	Surface Soil	2082793.04	749266.04	Samples Not Collected		-	-	Radionuclides	Sample data from the IHSS Group 400-7 investigation used in place of this sampling location.

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	CA39-A009	Surface Soil	2082793.04	749266.04	Samples Not Collected		-	-	Metals	
	CA39-A009	Surface Soil	2082793.04	749266.04			-	-	SVOCs	
	CA39-B009	Subsurface Soil	2082793.04	749266.04			-	-	Radionuclides	
	CA39-B009	Subsurface Soil	2082793.04	749266.04			-	-	VOCs	
	CA39-A010	Surface Soil	2082841.35	749183.95	2082841.34	749183.92	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A010	Surface Soil	2082841.35	749183.95	2082841.34	749183.92	0	0.5	Metals	
	CA39-A010	Surface Soil	2082841.35	749183.95	2082841.34	749183.92	0	0.5	SVOCs	
	CA39-B010	Subsurface Soil	2082841.35	749183.95	2082841.34	749183.92	0.5	2.5	Radionuclides	
	CA39-B010	Subsurface Soil	2082841.35	749183.95	2082841.34	749183.92	0.5	2.5	VOCs	
	CA39-A011	Surface Soil	2082834.25	749219.25	2082834.25	749219.29	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A011	Surface Soil	2082834.25	749219.25	2082834.25	749219.29	0	0.5	Metals	
	CA39-A011	Surface Soil	2082834.25	749219.25	2082834.25	749219.29	0	0.5	SVOCs	
	CA39-B011	Subsurface Soil	2082834.25	749219.25	2082834.25	749219.29	0.5	2.5	Radionuclides	
	CA39-B011	Subsurface Soil	2082834.25	749219.25	2082834.25	749219.29	0.5	2.5	VOCs	
	CA39-A012	Surface Soil	2082827.15	749254.54	2082827.13	749254.56	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A012	Surface Soil	2082827.15	749254.54	2082827.13	749254.56	0	0.5	Metals	
	CA39-A012	Surface Soil	2082827.15	749254.54	2082827.13	749254.56	0	0.5	SVOCs	
	CA39-B012	Subsurface Soil	2082827.15	749254.54	2082827.13	749254.56	0.5	2.5	Radionuclides	
	CA39-B012	Subsurface Soil	2082827.15	749254.54	2082827.13	749254.56	0.5	2.5	VOCs	
	CA39-A013	Surface Soil	2082820.06	749289.83	2082820.49	749289.82	0	0.5	Radionuclides	No deviations from the planned sampling specification.
	CA39-A013	Surface Soil	2082820.06	749289.83	2082820.49	749289.82	0	0.5	Metals	
	CA39-A013	Surface Soil	2082820.06	749289.83	2082820.49	749289.82	0	0.5	SVOCs	
	CA39-B013	Subsurface Soil	2082820.06	749289.83	2082820.49	749289.82	0.5	2.5	Radionuclides	
	CA39-B013	Subsurface Soil	2082820.06	749289.83	2082820.49	749289.82	0.5	2.5	VOCs	
IHSS IHSS 157.1, Radioactive Site North Area (Data used to characterize the northern side of PAC 400-802.)	BZ39-A000	Surface Soil	2082551.13	749284.82	2082548.29	749258.73	0	0.5	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A000	Surface Soil	2082551.13	749284.82	2082548.29	749258.73	0	0.5	Metals	
	BZ39-A000	Surface Soil	2082551.13	749284.82	2082548.29	749258.73	0	0.5	SVOCs	
	BZ39-B000	Subsurface Soil	2082551.13	749284.82	2082548.29	749258.73	0.5	2.5	Radionuclides	
	BZ39-B000	Subsurface Soil	2082551.13	749284.82	2082548.29	749258.73	0.5	2.5	Metals	
	BZ39-B000	Subsurface Soil	2082551.13	749284.82	2082548.29	749258.73	0.5	2.5	SVOCs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ39-A001	Surface Soil	2082581.90	749267.46	2082581.65	749257.29	0	0.5'	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A001	Surface Soil	2082581.90	749267.46	2082581.65	749257.29	0	0.5'	Metals	
	BZ39-A001	Surface Soil	2082581.90	749267.46	2082581.65	749257.29	0	0.5'	SVOCs	
	BZ39-B001	Subsurface Soil	2082581.90	749267.46	2082581.65	749257.29	0.5’	2.5'	Radionuclides	
	BZ39-B001	Subsurface Soil	2082581.90	749267.46	2082581.65	749257.29	0.5’	2.5'	Metals	
	BZ39-B001	Subsurface Soil	2082581.90	749267.46	2082581.65	749257.29	0.5’	2.5'	SVOCs	
	BZ39-B001	Subsurface Soil	2082581.90	749267.46	2082581.65	749257.29	0.5’	2.5'	VOCs	
	BZ39-A002	Surface Soil	2082612.90	749287.97	2082613.13	749257.55	0	0.5'	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A002	Surface Soil	2082612.90	749287.97	2082613.13	749257.55	0	0.5'	Metals	
	BZ39-A002	Surface Soil	2082612.66	749287.97	2082613.13	749257.55	0	0.5'	SVOCs	
	BZ39-B002	Subsurface Soil	2082612.66	749287.97	2082613.13	749257.55	0.5’	2.5'	Radionuclides	
	BZ39-B002	Subsurface Soil	2082612.66	749287.97	2082613.13	749257.55	0.5’	2.5'	Metals	
	BZ39-B002	Subsurface Soil	2082612.66	749287.97	2082613.13	749257.55	0.5’	2.5'	SVOCs	
	BZ39-B002	Subsurface Soil	2082612.66	749287.97	2082613.13	749257.55	0.5’	2.5'	VOCs	
	BZ39-A003	Surface Soil	2082643.43	749271.41	2082642.64	749257.37	0	0.5'	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A003	Surface Soil	2082643.43	749271.41	2082642.64	749257.37	0	0.5'	Metals	
	BZ39-A003	Surface Soil	2082643.43	749271.41	2082642.64	749257.37	0	0.5'	SVOCs	
	BZ39-B003	Subsurface Soil	2082643.43	749271.41	2082642.64	749257.37	0.5’	2.5'	Radionuclides	
	BZ39-B003	Subsurface Soil	2082643.43	749271.41	2082642.64	749257.37	0.5’	2.5'	Metals	
	BZ39-B003	Subsurface Soil	2082643.43	749271.41	2082642.64	749257.37	0.5’	2.5'	SVOCs	
	BZ39-B003	Subsurface Soil	2082643.43	749271.41	2082642.64	749257.37	0.5’	2.5'	VOCs	
	BZ39-A004	Surface Soil	2082674.19	749291.13	2082674.93	749257.97	0	0.5'	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A004	Surface Soil	2082674.19	749291.13	2082674.93	749257.97	0	0.5'	Metals	
	BZ39-A004	Surface Soil	2082674.19	749291.13	2082674.93	749257.97	0	0.5'	SVOCs	
	BZ39-B004	Subsurface Soil	2082674.19	749291.13	2082674.93	749257.97	0.5’	2.5'	Radionuclides	
	BZ39-B004	Subsurface Soil	2082674.19	749291.13	2082674.93	749257.97	0.5’	2.5'	Metals	
	BZ39-B004	Subsurface Soil	2082674.19	749291.13	2082674.93	749257.97	0.5’	2.5'	SVOCs	
	BZ39-B004	Subsurface Soil	2082674.19	749291.13	2082674.93	749257.97	0.5’	2.5'	VOCs	

Table 1 Differences in Planned and Actual Characterization Sampling Locations for IHSS Group 600-2

IHSS/PAC/ UBC Site	Location Code	Media	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Depth Start (feet)	Depth End (feet)	Analyte	Comments
	BZ39-A005	Surface Soil	2082706.54	749274.56	2082717.53	749251.81	0	0.5'	Radionuclides	Relocated from planned coordinates due to utilities or other obstruction to sampling.
	BZ39-A005	Surface Soil	2082706.54	749274.56	2082717.53	749251.81	0	0.5'	Metals	
	BZ39-A005	Surface Soil	2082706.54	749274.56	2082717.53	749251.81	0	0.5'	SVOCs	
	BZ39-B005	Subsurface Soil	2082706.54	749274.56	2082717.53	749251.81	0.5’	2.5'	Radionuclides	
	BZ39-B005	Subsurface Soil	2082706.54	749274.56	2082717.53	749251.81	0.5’	2.5'	Metals	
	BZ39-B005	Subsurface Soil	2082706.54	749274.56	2082717.53	749251.81	0.5’	2.5'	SVOCs	
	BZ39-B005	Subsurface Soil	2082706.54	749274.56	2082717.53	749251.81	0.5’	2.5'	VOCs	
	CA39-A000	Surface Soil	2082768.86	749276.14	2082768.86	749276.14	0	0.5'	Radionuclides	No deviations from the planned sampling specification.
	CA39-A000	Surface Soil	2082768.86	749276.14	2082768.86	749276.14	0	0.5'	Metals	
	CA39-A000	Surface Soil	2082768.86	749276.14	2082768.86	749276.14	0	0.5'	SVOCs	
	CA39-B000	Subsurface Soil	2082768.86	749276.14	2082768.86	749276.14	0.5’	2.5'	Radionuclides	
	CA39-B000	Subsurface Soil	2082768.86	749276.14	2082768.86	749276.14	0.5’	2.5'	Metals	
	CA39-B000	Subsurface Soil	2082768.86	749276.14	2082768.86	749276.14	0.5’	2.5'	SVOCs	
	CA39-B000	Subsurface Soil	2082768.86	749276.14	2082768.86	749276.14	0.5’	2.5'	VOCs	
	452 North Transformer	Surface Soil	Sample location not planned		2082541.40	749252.93	0	0.5'	Radionuclides	This sample location was added in the field due to stained soil associated with this transformer.
		Surface Soil			2082541.40	749252.93	0	0.5'	Metals	
		Surface Soil			2082541.40	749252.93	0	0.5'	SVOCs	
		Subsurface Soil			2082541.40	749252.93	0.5’	2.5'	Radionuclides	
		Subsurface Soil			2082541.40	749252.93	0.5’	2.5'	Metals	
		Subsurface Soil			2082541.40	749252.93	0.5’	2.5'	SVOCs	
		Subsurface Soil			2082541.40	749252.93	0.5’	2.5'	VOCs	

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
PAC 400-802, Storage Shed South of Building 334	BZ38-A002	2082569.81	749110.99	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A002	2082569.81	749110.99	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A002	2082569.81	749110.99	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B002	2082569.81	749110.99	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B002	2082569.81	749110.99	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A003	2082562.72	749146.28	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A003	2082562.72	749146.28	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A003	2082562.72	749146.28	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B003	2082562.72	749146.28	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B003	2082562.72	749146.28	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A004	2082603.93	749099.49	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A004	2082603.93	749099.49	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A004	2082603.93	749099.49	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B004	2082603.93	749099.49	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B004	2082603.93	749099.49	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A005	2082596.83	749134.78	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A005	2082596.83	749134.78	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A005	2082596.83	749134.78	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B005	2082596.83	749134.78	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B005	2082596.83	749134.78	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A006	2082630.94	749123.28	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A006	2082630.94	749123.28	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A006	2082630.94	749123.28	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B006	2082630.94	749123.28	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B006	2082630.94	749123.28	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A007	2082623.85	749158.58	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A007	2082623.85	749158.58	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A007	2082623.85	749158.58	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B007	2082623.85	749158.58	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ38-B007	2082623.85	749158.58	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A008	2082665.06	749111.78	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A008	2082665.06	749111.78	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A008	2082665.06	749111.78	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B008	2082665.06	749111.78	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B008	2082665.06	749111.78	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A009	2082657.96	749147.08	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A009	2082657.96	749147.08	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A009	2082657.96	749147.08	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B009	2082657.96	749147.08	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B009	2082657.96	749147.08	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A010	2082699.17	749100.28	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A010	2082699.17	749100.28	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A010	2082699.17	749100.28	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B010	2082699.170	749100.28	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B010	2082699.17	749100.28	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A011	2082692.07	749135.58	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A011	2082692.07	749135.58	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A011	2082692.07	749135.58	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B011	2082692.07	749135.58	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B011	2082692.07	749135.58	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A012	2082726.19	749124.07	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-A012	2082726.19	749124.07	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A012	2082726.19	749124.07	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B012	2082726.19	749124.07	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B012	2082726.19	749124.07	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ38-A013	2082719.09	749159.37	Surface Soil	0-0.5'	Metals	6200	6010
	BZ38-A013	2082719.09	749159.37	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ38-B013	2082719.09	749159.37	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ38-B013	2082719.09	749159.37	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ39-A006	2082555.62	749181.58	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A006	2082555.62	749181.58	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A006	2082555.62	749181.58	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B006	2082555.62	749181.58	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B006	2082555.62	749181.58	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A007	2082548.52	749216.87	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A007	2082548.52	749216.87	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A007	2082548.52	749216.87	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A007	2082548.52	749216.87	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B007	2082548.52	749216.87	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B007	2082548.52	749216.87	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B007	2082548.52	749216.87	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A008	2082541.42	749252.16	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A008	2082541.42	749252.16	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A008	2082541.42	749252.16	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B008	2082541.42	749252.16	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B008	2082541.42	749252.16	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A009	2082589.73	749170.08	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A009	2082589.73	749170.08	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A009	2082589.73	749170.08	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B009	2082589.73	749170.08	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B009	2082589.73	749170.08	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A010	2082582.63	749205.37	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A010	2082582.63	749205.37	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A010	2082582.63	749205.37	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A010	2082582.63	749205.37	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B010	2082582.63	749205.37	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B010	2082582.63	749205.37	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B010	2082582.63	749205.37	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A011	2082575.54	749240.66	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ39-A011	2082575.54	749240.66	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A011	2082575.54	749240.66	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A011	2082575.54	749240.66	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B011	2082575.54	749240.66	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B011	2082575.54	749240.66	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B011	2082575.54	749240.66	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A012	2082568.44	749275.96	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A012	2082568.44	749275.96	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A012	2082568.44	749275.96	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B012	2082568.44	749275.96	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B012	2082568.44	749275.96	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A013	2082616.75	749193.87	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A013	2082616.75	749193.87	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A013	2082616.75	749193.87	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A013	2082616.75	749193.87	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B013	2082616.75	749193.87	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B013	2082616.75	749193.87	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B013	2082616.75	749193.87	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A014	2082609.65	749229.16	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A014	2082609.65	749229.16	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A014	2082609.65	749229.16	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A014	2082609.65	749229.16	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B014	2082609.65	749229.16	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B014	2082609.65	749229.16	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B014	2082609.65	749229.16	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A015	2082602.55	749264.46	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A015	2082602.55	749264.46	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A015	2082602.55	749264.46	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A015	2082602.55	749264.46	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B015	2082602.55	749264.46	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

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IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ39-B015	2082602.55	749264.46	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B015	2082602.55	749264.46	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A016	2082650.86	749182.37	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A016	2082650.86	749182.37	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A016	2082650.86	749182.37	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B016	2082650.86	749182.37	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B016	2082650.86	749182.37	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A017	2082643.76	749217.66	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A017	2082643.76	749217.66	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A017	2082643.76	749217.66	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-A017	2082643.76	749217.66	Surface Soil	0-0.5'	PCBs	8082	8082
	BZ39-B017	2082643.76	749217.66	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B017	2082643.76	749217.66	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-B017	2082643.76	749217.66	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
	BZ39-A018	2082636.67	749252.96	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A018	2082636.67	749252.96	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A018	2082636.67	749252.96	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B018	2082636.67	749252.96	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B018	2082636.67	749252.96	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A019	2082629.57	749288.25	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A019	2082629.57	749288.25	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A019	2082629.57	749288.25	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B019	2082629.57	749288.25	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B019	2082629.57	749288.25	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A020	2082684.98	749170.87	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A020	2082684.98	749170.87	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A020	2082684.98	749170.87	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B020	2082684.98	749170.87	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B020	2082684.98	749170.87	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A021	2082677.88	749206.16	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

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IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ39-A021	2082677.88	749206.16	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A021	2082677.88	749206.16	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B021	2082677.88	749206.16	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B021	2082677.88	749206.16	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A022	2082670.78	749241.46	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A022	2082670.78	749241.46	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A022	2082670.78	749241.46	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B022	2082670.78	749241.46	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B022	2082670.78	749241.46	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A023	2082663.68	749276.75	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A023	2082663.68	749276.75	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A023	2082663.68	749276.75	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B023	2082663.68	749276.75	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B023	2082663.68	749276.75	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A024	2082711.99	749194.66	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A024	2082711.99	749194.66	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A024	2082711.99	749194.66	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B024	2082711.99	749194.66	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B024	2082711.99	749194.66	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A025	2082704.89	749229.96	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A025	2082704.89	749229.96	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A025	2082704.89	749229.96	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B025	2082704.89	749229.96	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B025	2082704.89	749229.96	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A026	2082697.80	749265.25	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A026	2082697.80	749265.25	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A026	2082697.80	749265.25	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B026	2082697.80	749265.25	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B026	2082697.80	749265.25	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A027	2082731.91	749253.75	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ39-A027	2082731.91	749253.75	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A027	2082731.91	749253.75	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B027	2082731.91	749253.75	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B027	2082731.91	749253.75	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A028	2082724.81	749289.04	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A028	2082724.81	749289.04	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A028	2082724.81	749289.04	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B028	2082724.81	749289.04	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B028	2082724.81	749289.04	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A000	2082760.30	749112.57	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA38-A000	2082760.30	749112.57	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A000	2082760.30	749112.57	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B000	2082760.30	749112.57	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B000	2082760.30	749112.57	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A001	2082753.20	749147.87	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA38-A001	2082753.20	749147.87	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A001	2082753.20	749147.87	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B001	2082753.20	749147.87	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B001	2082753.20	749147.87	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A002	2082794.41	749101.07	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA38-A002	2082794.41	749101.07	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A002	2082794.41	749101.07	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B002	2082794.41	749101.07	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B002	2082794.41	749101.07	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A003	2082787.32	749136.37	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA38-A003	2082787.32	749136.37	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A003	2082787.32	749136.37	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B003	2082787.32	749136.37	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B003	2082787.32	749136.37	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A004	2082821.43	749124.87	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	CA38-A004	2082821.43	749124.87	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A004	2082821.43	749124.87	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B004	2082821.43	749124.87	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B004	2082821.43	749124.87	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A005	2082814.33	749160.16	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA38-A005	2082814.33	749160.16	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A005	2082814.33	749160.16	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B005	2082814.33	749160.16	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B005	2082814.33	749160.16	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA38-A006	2082848.45	749148.66	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA38-A006	2082848.45	749148.66	Surface Soil	0-0.5'	Metals	6200	6010
	CA38-A006	2082848.47	749148.66	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA38-B006	2082848.47	749148.66	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA38-B006	2082848.47	749148.66	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A001	2082746.11	749183.16	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A001	2082746.11	749183.16	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A001	2082746.11	749183.16	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B001	2082746.11	749183.16	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B001	2082746.11	749183.16	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A002	2082739.01	749218.45	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A002	2082739.01	749218.45	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A002	2082739.01	749218.45	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B002	2082739.01	749218.45	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B002	2082739.01	749218.45	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A003	2082780.22	749171.66	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A003	2082780.22	749171.66	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A003	2082780.22	749171.66	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B003	2082780.22	749171.66	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B003	2082780.22	749171.66	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A004	2082773.12	749206.95	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	CA39-A004	2082773.12	749206.95	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A004	2082773.12	749206.95	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B004	2082773.12	749206.95	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B004	2082773.12	749206.95	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A005	2082766.02	749242.25	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A005	2082766.02	749242.25	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A005	2082766.02	749242.25	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B005	2082766.02	749242.25	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B005	2082766.02	749242.25	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A006	2082758.93	749277.54	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A006	2082758.93	749277.54	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A006	2082758.93	749277.54	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B006	2082758.93	749277.54	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B006	2082758.93	749277.54	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A007	2082807.24	749195.45	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A007	2082807.24	749195.45	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A007	2082807.24	749195.45	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-A007	2082807.24	749195.45	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A007	2082807.24	749195.45	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-B008	2082800.14	749230.75	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B008	2082800.14	749230.75	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A009	2082793.04	749266.04	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A009	2082793.04	749266.04	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A009	2082793.04	749266.04	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B009	2082793.04	749266.04	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B009	2082793.04	749266.04	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A010	2082841.35	749183.95	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A010	2082841.35	749183.95	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B010	2082841.35	749183.95	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B010	2082841.35	749183.95	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	CA39-A011	2082834.25	749219.25	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A011	2082834.25	749219.25	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A011	2082834.25	749219.25	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B011	2082834.25	749219.25	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B011	2082834.25	749219.25	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A012	2082827.15	749254.54	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A012	2082827.15	749254.54	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A012	2082827.15	749254.54	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B012	2082827.15	749254.54	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B012	2082827.15	749254.54	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A013	2082820.06	749289.83	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A013	2082820.06	749289.83	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A013	2082820.06	749289.83	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B013	2082820.06	749289.83	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B013	2082820.06	749289.83	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
IHSS Group 400-7 - IHSS 157.1, Radioactive Site North Area (Data used to characterize the northern side of PAC 400-802.)	BZ39-A000	2082551.13	749284.82	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A000	2082551.13	749284.82	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A000	2082551.13	749284.82	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B000	2082551.13	749284.82	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B000	2082551.13	749284.82	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	BZ39-B000	2082551.13	749284.82	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	BZ39-B000	2082551.13	749284.82	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A001	2082581.90	749267.46	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A001	2082581.90	749267.46	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A001	2082581.90	749267.46	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B001	2082581.90	749267.46	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B001	2082581.90	749267.46	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	BZ39-B001	2082581.90	749267.46	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	BZ39-B001	2082581.90	749267.46	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A002	2082612.90	749287.97	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A002	2082612.90	749287.97	Surface Soil	0-0.5'	Metals	6200	6010

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	BZ39-A002	2082612.66	749287.97	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B002	2082612.66	749287.97	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B002	2082612.66	749287.97	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	BZ39-B002	2082612.66	749287.97	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	BZ39-B002	2082612.66	749287.97	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A003	2082643.43	749271.41	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A003	2082643.43	749271.41	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A003	2082643.43	749271.41	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B003	2082643.43	749271.41	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B003	2082643.43	749271.41	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	BZ39-B003	2082643.43	749271.41	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	BZ39-B003	2082643.43	749271.41	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A004	2082674.19	749291.13	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A004	2082674.19	749291.13	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A004	2082674.19	749291.13	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B004	2082674.19	749291.13	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B004	2082674.19	749291.13	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	BZ39-B004	2082674.19	749291.13	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	BZ39-B004	2082674.19	749291.13	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	BZ39-A005	2082706.54	749274.56	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-A005	2082706.54	749274.56	Surface Soil	0-0.5'	Metals	6200	6010
	BZ39-A005	2082706.54	749274.56	Surface Soil	0-0.5'	SVOCs	N/A	8270
	BZ39-B005	2082706.54	749274.56	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	BZ39-B005	2082706.54	749274.56	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	BZ39-B005	2082706.54	749274.56	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	BZ39-B005	2082706.54	749274.56	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	CA39-A000	2082768.86	749276.14	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
	CA39-A000	2082768.86	749276.14	Surface Soil	0-0.5'	Metals	6200	6010
	CA39-A000	2082768.86	749276.14	Surface Soil	0-0.5'	SVOCs	N/A	8270
	CA39-B000	2082768.86	749276.14	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
	CA39-B000	2082768.86	749276.14	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

Table 2 Characterization Sampling Specifications for IHSS Group 600-2

IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
	CA39-B000	2082768.86	749276.14	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
	CA39-B000	2082768.86	749276.14	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
	452 North-Transformer							

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-029	Tin	2.5	0.41	N/A	1000000.00	1000000.00	mg/kg
BZ39-029	Antimony	0.83	0.46	N/A	818.00	818.00	mg/kg
BZ39-029	Molybdenum	0.41	0.14	N/A	10200.00	10200.00	mg/kg
BZ39-029	Silver	0.54	0.059	N/A	10200.00	10200.00	mg/kg
BZ39-030	Molybdenum	0.41	0.13	N/A	10200.00	10200.00	mg/kg
BZ39-030	Tin	2.7	0.39	N/A	1000000.00	1000000.00	mg/kg
BZ39-031	Tin	2.9	0.42	N/A	1000000.00	1000000.00	mg/kg
BZ39-031	Antimony	0.48	0.46	N/A	818.00	818.00	mg/kg
BZ39-031	Selenium	1.6	0.48	1.22	10200.00	10200.00	mg/kg
BZ39-032	Tin	2.6	0.4	N/A	1000000.00	1000000.00	mg/kg
BZ39-032	Molybdenum	0.18	0.14	N/A	10200.00	10200.00	mg/kg
CA38-005	Tin	2.1	0.4	N/A	1000000.00	1000000.00	mg/kg
CA39-003	Tin	2.1	0.4	N/A	1000000.00	1000000.00	mg/kg
CA39-003	Antimony	0.45	0.44	N/A	818.00	818.00	mg/kg
BZ38-007	Fluorene	99	82	N/A	81800000.00	81800000.00	ug/kg
BZ38-007	Chrysene	240	57	N/A	78400000.00	784000.00	ug/kg
BZ38-007	Indeno(1,2,3-Cd)Pyrene	150	52	N/A	784000.00	7840.00	ug/kg
BZ38-007	Naphthalene	83	75	N/A	81800000.00	81800000.00	ug/kg
BZ38-007	Benzo(B)Fluoranthene	180	110	N/A	784000.00	7840.00	ug/kg
BZ38-007	Benzo(K)Fluoranthene	200	100	N/A	7840000.00	78400.00	ug/kg
BZ38-007	Anthracene	110	84	N/A	613000000.00	613000000.00	ug/kg
BZ38-007	Benzo(A)Pyrene	230	100	N/A	78400.00	784.00	ug/kg
BZ38-007	Acenaphthene	120	50	N/A	123000000.00	123000000.00	ug/kg
BZ38-007	Benzo(A)Anthracene	220	42	N/A	784000.00	7840.00	ug/kg
BZ39-008	Pyrene	44	42	N/A	61300000.00	61300000.00	ug/kg
BZ39-011	Aroclor-1260	22	5.2	N/A	286000.00	2860.00	ug/kg
BZ39-011	Pyrene	64	43	N/A	61300000.00	61300000.00	ug/kg
BZ39-018	Benzo(A)Pyrene	120	98	N/A	78400.00	784.00	ug/kg
BZ39-018	Benzo(K)Fluoranthene	100	97	N/A	7840000.00	78400.00	ug/kg
BZ39-018	Fluoranthene	220	87	N/A	81800000.00	81800000.00	ug/kg
BZ39-018	Benzo(A)Anthracene	100	41	N/A	784000.00	7840.00	ug/kg

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-018	Chrysene	120	55	N/A	78400000.00	784000.00	ug/kg
BZ39-018	Pyrene	240	42	N/A	61300000.00	61300000.00	ug/kg
BZ39-018	Indeno(1,2,3-Cd)Pyrene	74	50	N/A	784000.00	7840.00	ug/kg
BZ39-006	Fluoranthene	130	88	N/A	81800000.00	81800000.00	ug/kg
BZ39-006	Pyrene	110	42	N/A	61300000.00	61300000.00	ug/kg
BZ39-006	Benzo(A)Anthracene	48	41	N/A	784000.00	7840.00	ug/kg
BZ39-007	Aroclor-1260	12	5	N/A	286000.00	2860.00	ug/kg
BZ39-016	Benzo(A)Anthracene	96	40	N/A	784000.00	7840.00	ug/kg
BZ39-016	Benzo(A)Pyrene	98	96	N/A	78400.00	784.00	ug/kg
BZ39-016	Indeno(1,2,3-Cd)Pyrene	65	49	N/A	784000.00	7840.00	ug/kg
BZ39-016	Pyrene	220	41	N/A	61300000.00	61300000.00	ug/kg
BZ39-016	Fluoranthene	250	86	N/A	81800000.00	81800000.00	ug/kg
BZ39-016	Chrysene	99	55	N/A	78400000.00	784000.00	ug/kg
BZ39-010	Aroclor-1260	6.5	5.2	N/A	286000.00	2860.00	ug/kg
CA39-004	Bis(2-Ethylhexyl)Phthalate	200	71	N/A	40900000.00	409000.00	ug/kg
BZ39-017	Fluoranthene	160	86	N/A	81800000.00	81800000.00	ug/kg
BZ39-017	Chrysene	69	54	N/A	78400000.00	784000.00	ug/kg
BZ39-017	Pyrene	160	41	N/A	61300000.00	61300000.00	ug/kg
BZ39-017	Benzo(A)Anthracene	64	40	N/A	784000.00	7840.00	ug/kg
CA38-001	Pyrene	140	42	N/A	61300000.00	61300000.00	ug/kg
CA38-001	Chrysene	65	55	N/A	78400000.00	784000.00	ug/kg
CA38-001	Fluoranthene	130	88	N/A	81800000.00	81800000.00	ug/kg
CA38-001	Benzo(A)Anthracene	66	41	N/A	784000.00	7840.00	ug/kg
CA38-003	Pyrene	150	41	N/A	61300000.00	61300000.00	ug/kg
CA38-003	Chrysene	73	54	N/A	78400000.00	784000.00	ug/kg
CA38-003	Fluoranthene	150	86	N/A	81800000.00	81800000.00	ug/kg
CA38-003	Benzo(A)Anthracene	83	40	N/A	784000.00	7840.00	ug/kg
CA38-004	Bis(2-Ethylhexyl)Phthalate	170	71	N/A	40900000.00	409000.00	ug/kg
CA38-004	Pyrene	120	41	N/A	61300000.00	61300000.00	ug/kg
CA38-004	Fluoranthene	130	87	N/A	81800000.00	81800000.00	ug/kg
CA38-004	Benzo(A)Anthracene	62	40	N/A	784000.00	7840.00	ug/kg
CA38-006	Bis(2-Ethylhexyl)Phthalate	170	71	N/A	40900000.00	409000.00	ug/kg

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-006	Pyrene	100	41	N/A	61300000.00	61300000.00	ug/kg
CA38-006	Fluoranthene	100	86	N/A	81800000.00	81800000.00	ug/kg
CA38-006	Benzo(A)Anthracene	49	40	N/A	784000.00	7840.00	ug/kg
CA39-004	Pyrene	78	41	N/A	61300000.00	61300000.00	ug/kg
CA39-007	Benzo(A)Anthracene	69	41	N/A	784000.00	7840.00	ug/kg
CA39-007	Chrysene	86	55	N/A	78400000.00	784000.00	ug/kg
CA39-007	Fluoranthene	130	88	N/A	81800000.00	81800000.00	ug/kg
CA39-007	Pyrene	140	42	N/A	61300000.00	61300000.00	ug/kg
BZ38-008	Benzo(A)Anthracene	170	40	N/A	784000.00	7840.00	ug/kg
BZ38-008	Chrysene	200	54	N/A	78400000.00	784000.00	ug/kg
BZ38-008	Indeno(1,2,3-Cd)Pyrene	120	49	N/A	784000.00	7840.00	ug/kg
BZ38-008	Benzo(K)Fluoranthene	160	95	N/A	7840000.00	78400.00	ug/kg
BZ38-008	Benzo(B)Fluoranthene	160	100	N/A	784000.00	7840.00	ug/kg
BZ38-008	Benzo(A)Pyrene	170	96	N/A	78400.00	784.00	ug/kg
BZ38-009	Fluoranthene	150	87	N/A	81800000.00	81800000.00	ug/kg
BZ38-009	Pyrene	170	41	N/A	61300000.00	61300000.00	ug/kg
BZ38-009	Chrysene	91	55	N/A	78400000.00	784000.00	ug/kg
BZ38-009	Benzo(A)Anthracene	89	40	N/A	784000.00	7840.00	ug/kg
BZ39-030	Lithium	11.9	0.18	11.55	40900.00	40900.00	mg/kg
BZ39-032	Lithium	11.8	0.18	11.55	40900.00	40900.00	mg/kg
BZ38-007	Fluoranthene	640	90	N/A	81800000.00	81800000.00	ug/kg
BZ38-007	Pyrene	640	43	N/A	61300000.00	61300000.00	ug/kg
BZ39-008	2,4,6-Trichlorophenol	950	52	N/A	52000000.00	520000.00	ug/kg
BZ39-008	2,4,5-Trichlorophenol	1100	78	N/A	204000000.00	204000000.00	ug/kg
BZ39-014	Aroclor-1254	73	4.9	N/A	286000.00	2860.00	ug/kg
CA39-007	Bis(2-Ethylhexyl)Phthalate	750	72	N/A	40900000.00	409000.00	ug/kg
BZ38-008	Fluoranthene	420	86	N/A	81800000.00	81800000.00	ug/kg
BZ38-008	Pyrene	410	41	N/A	61300000.00	61300000.00	ug/kg
BZ39-029	Zinc	76.4	0.22	73.76	613000.00	613000.00	mg/kg
BZ39-030	Copper	23.8	0.16	18.06	75600.00	75600.00	mg/kg
BZ39-031	Zinc	161	0.22	73.76	613000.00	613000.00	mg/kg
BZ39-032	Copper	26.9	0.16	18.06	75600.00	75600.00	mg/kg

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-032	Zinc	110	0.21	73.76	613000.00	613000.00	mg/kg
BZ39-032	Vanadium	45.9	0.25	45.59	14300.00	14300.00	mg/kg
BZ39-032	Iron	25400	1.5	18037.00	613000.00	613000.00	mg/kg
BZ39-032	Manganese	561	0.034	365.08	66800.00	66800.00	mg/kg
CA38-005	Fluoranthene	200	88	N/A	81800000.00	81800000.00	ug/kg
CA38-005	Bis(2-Ethylhexyl)Phthalate	290	72	N/A	40900000.00	409000.00	ug/kg
CA38-005	Chrysene	88	56	N/A	78400000.00	784000.00	ug/kg
CA38-005	Pyrene	190	42	N/A	61300000.00	61300000.00	ug/kg
CA39-003	Chrysene	62	56	N/A	78400000.00	784000.00	ug/kg
CA39-003	Benzo(A)Anthracene	57	41	N/A	784000.00	7840.00	ug/kg
CA39-002	Pyrene	84	42	N/A	61300000.00	61300000.00	ug/kg
CA39-002	Chrysene	57	56	N/A	78400000.00	784000.00	ug/kg
CA39-002	Benzo(A)Anthracene	48	41	N/A	784000.00	7840.00	ug/kg
CA39-002	Bis(2-Ethylhexyl)Phthalate	160	72	N/A	40900000.00	409000.00	ug/kg
CA39-005	Pyrene	85	41	N/A	61300000.00	61300000.00	ug/kg
CA39-005	Benzo(A)Anthracene	44	40	N/A	784000.00	7840.00	ug/kg
CA39-011	Chrysene	74	55	N/A	78400000.00	784000.00	ug/kg
CA39-011	Benzo(A)Anthracene	57	40	N/A	784000.00	7840.00	ug/kg
CA39-011	Pyrene	110	41	N/A	61300000.00	61300000.00	ug/kg
BZ38-012	Pyrene	72	42	N/A	61300000.00	61300000.00	ug/kg
BZ38-013	Indeno(1,2,3-Cd)Pyrene	56	50	N/A	784000.00	7840.00	ug/kg
BZ38-013	Pyrene	180	42	N/A	61300000.00	61300000.00	ug/kg
BZ38-013	Benzo(A)Anthracene	84	41	N/A	784000.00	7840.00	ug/kg
BZ38-013	Fluoranthene	200	88	N/A	81800000.00	81800000.00	ug/kg
BZ38-013	Chrysene	92	56	N/A	78400000.00	784000.00	ug/kg
CA38-000	Pyrene	59	42	N/A	61300000.00	61300000.00	ug/kg
CA38-002	Fluoranthene	150	87	N/A	81800000.00	81800000.00	ug/kg
CA38-002	Pyrene	140	42	N/A	61300000.00	61300000.00	ug/kg
CA38-002	Benzo(A)Anthracene	57	40	N/A	784000.00	7840.00	ug/kg
CA38-002	Chrysene	66	55	N/A	78400000.00	784000.00	ug/kg
CA39-001	Chrysene	65	57	N/A	78400000.00	784000.00	ug/kg
CA39-001	Bis(2-Ethylhexyl)Phthalate	160	73	N/A	40900000.00	409000.00	ug/kg

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-001	Fluoranthene	130	89	N/A	81800000.00	81800000.00	ug/kg
CA39-001	Pyrene	120	42	N/A	61300000.00	61300000.00	ug/kg
CA39-001	Benzo(A)Anthracene	59	41	N/A	784000.00	7840.00	ug/kg
BZ38-003	Bis(2-Ethylhexyl)Phthalate	96	71	N/A	40900000.00	409000.00	ug/kg
BZ38-003	Butylbenzylphthalate	110	35	N/A	409000000.00	409000000.00	ug/kg
BZ38-003	Pyrene	57	41	N/A	61300000.00	61300000.00	ug/kg
BZ38-A04	Di-N-Octyl Phthalate	61	38	N/A	1000000000.00	40900000.00	ug/kg
BZ38-A04	Pyrene	59	43	N/A	61300000.00	61300000.00	ug/kg
BZ38-A04	Bis(2-Ethylhexyl)Phthalate	75	74	N/A	40900000.00	409000.00	ug/kg
CA39-012	Indeno(1,2,3-Cd)Pyrene	230	49	N/A	784000.00	7840.00	ug/kg
CA39-012	Benzo(B)Fluoranthene	310	100	N/A	784000.00	7840.00	ug/kg
CA39-012	Benzo(A)Anthracene	330	40	N/A	784000.00	7840.00	ug/kg
CA39-012	Anthracene	160	80	N/A	613000000.00	613000000.00	ug/kg
CA39-012	Acenaphthene	160	47	N/A	123000000.00	123000000.00	ug/kg
CA39-012	Fluorene	130	78	N/A	81800000.00	81800000.00	ug/kg
CA39-012	Benzo(K)Fluoranthene	310	95	N/A	7840000.00	78400.00	ug/kg
CA39-012	Bis(2-Ethylhexyl)Phthalate	76	71	N/A	40900000.00	409000.00	ug/kg
CA39-012	Naphthalene	120	72	N/A	81800000.00	81800000.00	ug/kg
CA39-012	Dibenz(A,H)Anthracene	100	48	N/A	78400.00	784.00	ug/kg
CA39-013	Dibenz(A,H)Anthracene	240	49	N/A	78400.00	784.00	ug/kg
CA39-013	Anthracene	220	80	N/A	613000000.00	613000000.00	ug/kg
CA39-013	Bis(2-Ethylhexyl)Phthalate	79	71	N/A	40900000.00	409000.00	ug/kg
CA39-013	Chrysene	190	55	N/A	78400000.00	784000.00	ug/kg
CA39-013	Fluorene	82	78	N/A	81800000.00	81800000.00	ug/kg
CA39-013	Acenaphthene	78	47	N/A	123000000.00	123000000.00	ug/kg
BZ39-024	Pyrene	220	41	N/A	61300000.00	61300000.00	ug/kg
BZ39-024	Dibenz(A,H)Anthracene	82	49	N/A	78400.00	784.00	ug/kg
BZ39-024	Fluoranthene	240	87	N/A	81800000.00	81800000.00	ug/kg
BZ39-024	Benzo(B)Fluoranthene	120	100	N/A	784000.00	7840.00	ug/kg
BZ39-024	Benzo(K)Fluoranthene	120	96	N/A	7840000.00	78400.00	ug/kg
BZ39-024	Indeno(1,2,3-Cd)Pyrene	86	50	N/A	784000.00	7840.00	ug/kg
BZ39-024	Benzo(A)Pyrene	130	98	N/A	78400.00	784.00	ug/kg

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-024	Benzo(A)Anthracene	100	40	N/A	784000.00	7840.00	ug/kg
BZ39-024	Chrysene	180	55	N/A	78400000.00	784000.00	ug/kg
BZ39-025	Pyrene	130	41	N/A	61300000.00	61300000.00	ug/kg
BZ39-025	Indeno(1,2,3-Cd)Pyrene	54	49	N/A	784000.00	7840.00	ug/kg
BZ39-025	Chrysene	83	54	N/A	78400000.00	784000.00	ug/kg
BZ39-025	Benzo(A)Anthracene	66	40	N/A	784000.00	7840.00	ug/kg
BZ39-025	Fluoranthene	160	86	N/A	81800000.00	81800000.00	ug/kg
CA38-005	Indeno(1,2,3-Cd)Pyrene	62	50	N/A	784000.00	7840.00	ug/kg
CA38-005	Benzo(A)Anthracene	82	41	N/A	784000.00	7840.00	ug/kg
CA39-003	Pyrene	120	42	N/A	61300000.00	61300000.00	ug/kg
CA39-003	Fluoranthene	120	88	N/A	81800000.00	81800000.00	ug/kg
CA38-005	Lithium	12.1	0.18	11.55	40900.00	40900.00	mg/kg
CA39-003	Lithium	12.1	0.18	11.55	40900.00	40900.00	mg/kg
CA39-003	Molybdenum	1.4	0.14	N/A	10200.00	10200.00	mg/kg
CA39-008	Bis(2-Ethylhexyl)Phthalate	970	71	N/A	40900000.00	409000.00	ug/kg
CA39-011	Bis(2-Ethylhexyl)Phthalate	4700	71	N/A	40900000.00	409000.00	ug/kg
CA39-012	Benzo(A)Pyrene	360	96	N/A	78400.00	784.00	ug/kg
CA39-012	Chrysene	380	54	N/A	78400000.00	784000.00	ug/kg
CA39-012	Fluoranthene	880	86	N/A	81800000.00	81800000.00	ug/kg
CA39-012	Pyrene	810	41	N/A	61300000.00	61300000.00	ug/kg
CA39-013	Benzo(K)Fluoranthene	850	96	N/A	7840000.00	78400.00	ug/kg
CA39-013	Benzo(B)Fluoranthene	890	100	N/A	784000.00	7840.00	ug/kg
CA39-013	Benzo(A)Pyrene	940	97	N/A	78400.00	784.00	ug/kg
CA39-013	Benzo(A)Anthracene	870	40	N/A	784000.00	7840.00	ug/kg
CA39-013	Indeno(1,2,3-Cd)Pyrene	540	50	N/A	784000.00	7840.00	ug/kg
CA39-013	Fluoranthene	1800	87	N/A	81800000.00	81800000.00	ug/kg
CA39-013	Pyrene	1600	41	N/A	61300000.00	61300000.00	ug/kg
BZ39-025	Bis(2-Ethylhexyl)Phthalate	380	70	N/A	40900000.00	409000.00	ug/kg
CA38-005	Aluminum	17800	1.3	16902.00	1000000.00	1000000.00	mg/kg
CA39-003	Aluminum	17300	1.3	16902.00	1000000.00	1000000.00	mg/kg
CA39-003	Chromium	23	0.055	16.99	8720.00	1020.00	mg/kg
BZ39-029	Mercury	0.15	0.0013	0.13	613.00	613.00	mg/kg

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-017	Aroclor-1260	120	4.9	N/A	286000.00	2860.00	ug/kg
CA39-003	Strontium	61.3	0.0063	48.94	1000000.00	1000000.00	mg/kg
BZ39-008	Arsenic	15	25	10.09	381.00	3.81	mg/kg-dry
BZ39-008	Nickel	53	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-008	Strontium	180	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-008	Vanadium	100	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-008	Copper	60	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-008	Chromium	43	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-008	Zinc	150	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-011	Strontium	160	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-011	Arsenic	16	25	10.09	381.00	3.81	mg/kg-dry
BZ39-011	Copper	68	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-011	Chromium	38	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-009	Copper	190	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-009	Zinc	120	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-009	Nickel	46	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-009	Strontium	170	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-009	Chromium	51	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-009	Arsenic	18	25	10.09	381.00	3.81	mg/kg-dry
BZ39-014	Nickel	35	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-014	Strontium	150	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-014	Arsenic	15	25	10.09	381.00	3.81	mg/kg-dry
BZ39-014	Zinc	190	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-014	Copper	68	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-014	Chromium	36	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-007	Cadmium	2.9	85	1.61	2040.00	2040.00	mg/kg-dry
BZ38-007	Zinc	130	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-007	Chromium	48	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-007	Nickel	43	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-007	Arsenic	11	25	10.09	381.00	3.81	mg/kg-dry
BZ38-007	Copper	180	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-017	Arsenic	17	25	10.09	381.00	3.81	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-017	Chromium	46	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-017	Nickel	33	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-017	Strontium	240	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-017	Zinc	220	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-010	Chromium	35	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-010	Copper	190	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-010	Nickel	46	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-010	Strontium	180	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-010	Arsenic	12	25	10.09	381.00	3.81	mg/kg-dry
BZ39-010	Zinc	130	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-013	Chromium	49	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-013	Nickel	47	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-013	Arsenic	11	25	10.09	381.00	3.81	mg/kg-dry
BZ39-013	Zinc	130	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-013	Copper	170	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-006	Chromium	35	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-006	Vanadium	63	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-006	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-006	Nickel	32	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-006	Arsenic	12	25	10.09	381.00	3.81	mg/kg-dry
BZ39-006	Strontium	190	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-006	Copper	110	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-016	Zinc	140	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-016	Nickel	16	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-016	Arsenic	20	25	10.09	381.00	3.81	mg/kg-dry
BZ39-016	Vanadium	61	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-016	Copper	66	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-016	Chromium	36	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-007	Strontium	230	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-007	Arsenic	14	25	10.09	381.00	3.81	mg/kg-dry
BZ39-007	Nickel	32	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-007	Chromium	29	90	16.99	8720.00	1020.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-007	Copper	64	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-007	Vanadium	91	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-007	Zinc	170	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-007	Selenium	1.5	20	1.22	10200.00	10200.00	mg/kg-dry
CA39-004	Zinc	170	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-004	Nickel	24	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-004	Chromium	19	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-004	Copper	62	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-004	Vanadium	70	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-007	Nickel	46	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-007	Arsenic	13	25	10.09	381.00	3.81	mg/kg-dry
CA39-007	Zinc	280	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-007	Vanadium	99	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-007	Copper	67	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-007	Chromium	42	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-007	Strontium	210	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-010	Nickel	51	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-010	Strontium	190	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-010	Chromium	26	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-010	Copper	79	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-010	Arsenic	12	25	10.09	381.00	3.81	mg/kg-dry
CA39-010	Zinc	180	300	73.76	613000.00	613000.00	mg/kg-dry
CA38-006	Nickel	51	60	14.91	40900.00	40900.00	mg/kg-dry
CA38-006	Arsenic	12	25	10.09	381.00	3.81	mg/kg-dry
CA38-006	Strontium	180	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA38-006	Zinc	96	300	73.76	613000.00	613000.00	mg/kg-dry
CA38-006	Copper	62	300	18.06	75600.00	75600.00	mg/kg-dry
CA38-006	Chromium	50	90	16.99	8720.00	1020.00	mg/kg-dry
CA38-004	Nickel	51	60	14.91	40900.00	40900.00	mg/kg-dry
CA38-004	Strontium	220	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA38-004	Chromium	22	90	16.99	8720.00	1020.00	mg/kg-dry
CA38-004	Copper	56	300	18.06	75600.00	75600.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-004	Vanadium	74	100	45.59	14300.00	14300.00	mg/kg-dry
CA38-004	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
CA38-003	Nickel	49	60	14.91	40900.00	40900.00	mg/kg-dry
CA38-003	Arsenic	11	25	10.09	381.00	3.81	mg/kg-dry
CA38-003	Zinc	150	300	73.76	613000.00	613000.00	mg/kg-dry
CA38-003	Vanadium	93	100	45.59	14300.00	14300.00	mg/kg-dry
CA38-003	Copper	64	300	18.06	75600.00	75600.00	mg/kg-dry
CA38-003	Chromium	43	90	16.99	8720.00	1020.00	mg/kg-dry
CA38-003	Strontium	230	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA38-001	Strontium	250	250	48.94	1000000.00	1000000.00	mg/kg
CA38-001	Nickel	37	60	14.91	40900.00	40900.00	mg/kg
CA38-001	Chromium	34	90	16.99	8720.00	1020.00	mg/kg
CA38-001	Copper	56	300	18.06	75600.00	75600.00	mg/kg
CA38-001	Vanadium	75	100	45.59	14300.00	14300.00	mg/kg
CA38-001	Zinc	120	300	73.76	613000.00	613000.00	mg/kg
CA39-002	Nickel	32	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-002	Zinc	130	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-002	Vanadium	81	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-002	Copper	57	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-002	Chromium	30	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-005	Strontium	200	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-005	Nickel	30	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-005	Zinc	98	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-005	Vanadium	58	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-005	Copper	49	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-005	Chromium	28	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-008	Strontium	210	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-008	Nickel	35	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-008	Vanadium	57	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-008	Copper	43	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-008	Chromium	23	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-011	Nickel	33	60	14.91	40900.00	40900.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-011	Chromium	34	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-011	Strontium	170	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-011	Copper	46	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-011	Vanadium	77	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-001	Copper	69	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-001	Chromium	27	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-001	Nickel	25	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-001	Zinc	160	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-001	Vanadium	47	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-013	Nickel	38	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-013	Arsenic	12	25	10.09	381.00	3.81	mg/kg-dry
BZ38-013	Strontium	210	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-013	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-013	Vanadium	96	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-013	Copper	71	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-013	Chromium	41	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-012	Strontium	220	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-012	Nickel	36	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-012	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-012	Chromium	39	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-012	Copper	52	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-012	Vanadium	77	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-012	Cadmium	3.8	85	1.61	2040.00	2040.00	mg/kg-dry
CA38-000	Strontium	190	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA38-000	Nickel	45	60	14.91	40900.00	40900.00	mg/kg-dry
CA38-000	Arsenic	11	25	10.09	381.00	3.81	mg/kg-dry
CA38-000	Chromium	53	90	16.99	8720.00	1020.00	mg/kg-dry
CA38-000	Copper	53	300	18.06	75600.00	75600.00	mg/kg-dry
CA38-000	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
CA38-002	Nickel	38	60	14.91	40900.00	40900.00	mg/kg-dry
CA38-002	Strontium	200	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA38-002	Chromium	59	90	16.99	8720.00	1020.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-002	Copper	58	300	18.06	75600.00	75600.00	mg/kg-dry
CA38-002	Vanadium	75	100	45.59	14300.00	14300.00	mg/kg-dry
CA38-002	Zinc	100	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-009	Copper	47	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-009	Nickel	41	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-009	Chromium	51	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-009	Arsenic	16	25	10.09	381.00	3.81	mg/kg-dry
BZ38-009	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-A08	Zinc	100	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-A08	Nickel	50	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-A08	Chromium	63	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-A08	Vanadium	92	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-A08	Copper	58	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-A08	Strontium	210	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-006	Strontium	240	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-006	Arsenic	11	25	10.09	381.00	3.81	mg/kg-dry
BZ38-006	Copper	36	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-006	Chromium	19	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-005	Chromium	30	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-005	Arsenic	12	25	10.09	381.00	3.81	mg/kg-dry
BZ38-005	Nickel	35	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-005	Vanadium	87	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-005	Copper	78	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-005	Zinc	110	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-005	Strontium	210	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-002	Nickel	33	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-002	Strontium	130	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-002	Chromium	33	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-002	Copper	32	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-003	Nickel	30	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-003	Strontium	170	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-003	Zinc	79	300	73.76	613000.00	613000.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-003	Chromium	40	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-003	Vanadium	97	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-003	Copper	47	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-004	Nickel	31	60	14.91	40900.00	40900.00	mg/kg-dry
BZ38-004	Arsenic	13	25	10.09	381.00	3.81	mg/kg-dry
BZ38-004	Zinc	98	300	73.76	613000.00	613000.00	mg/kg-dry
BZ38-004	Copper	71	300	18.06	75600.00	75600.00	mg/kg-dry
BZ38-004	Chromium	31	90	16.99	8720.00	1020.00	mg/kg-dry
BZ38-004	Strontium	180	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-012	Nickel	36	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-012	Chromium	24	90	16.99	8720.00	1020.00	mg/kg-dry
CA39-012	Zinc	170	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-012	Vanadium	74	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-012	Copper	56	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-013	Strontium	180	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-013	Arsenic	15	25	10.09	381.00	3.81	mg/kg-dry
CA39-013	Zinc	180	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-013	Copper	79	300	18.06	75600.00	75600.00	mg/kg-dry
CA39-013	Chromium	48	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-024	Nickel	60	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-024	Arsenic	13	25	10.09	381.00	3.81	mg/kg-dry
BZ39-024	Zinc	200	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-024	Copper	97	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-024	Chromium	48	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-025	Nickel	32	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-025	Vanadium	76	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-025	Zinc	230	300	73.76	613000.00	613000.00	mg/kg-dry
BZ39-025	Copper	56	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-025	Chromium	31	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-018	Strontium	242	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-018	Nickel	21.8	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-018	Zinc	95.6	50	73.76	613000.00	613000.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-018	Copper	51.2	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-018	Chromium	32.5	90	16.99	8720.00	1020.00	mg/kg-dry
BZ39-018	Arsenic	14.8	25	10.09	381.00	3.81	mg/kg-dry
BZ39-018	Vanadium	69.4	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-008	Manganese	534	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-008	Barium	746	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-008	Iron	40800	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-011	Iron	43500	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-011	Nickel	61	60	14.91	40900.00	40900.00	mg/kg-dry
BZ39-011	Barium	665	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-011	Vanadium	118	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-018	Manganese	572	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-018	Iron	28400	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-018	Barium	683	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-009	Iron	37600	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-009	Vanadium	134	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-009	Barium	453	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-009	Manganese	398	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-014	Iron	29900	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-014	Manganese	546	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-014	Barium	410	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-014	Vanadium	115	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-007	Barium	744	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-007	Vanadium	100	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-007	Manganese	892	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-007	Iron	41500	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-007	Strontium	295	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-017	Iron	38000	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-017	Barium	718	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-017	Copper	375	300	18.06	75600.00	75600.00	mg/kg-dry
BZ39-017	Manganese	790	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-017	Vanadium	108	100	45.59	14300.00	14300.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-010	Barium	627	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-010	Manganese	618	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-010	Vanadium	125	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-010	Iron	37300	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-013	Manganese	908	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-013	Strontium	306	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-013	Iron	43100	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-013	Vanadium	114	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-013	Barium	731	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-006	Iron	29700	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-006	Manganese	616	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-006	Barium	699	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-016	Iron	18800	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-016	Barium	553	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-016	Strontium	351	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-007	Manganese	647	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-007	Lead	363	20	54.62	1000.00	1000.00	mg/kg-dry
BZ39-007	Iron	29200	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-007	Barium	662	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-004	Strontium	369	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-004	Iron	26000	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-004	Manganese	535	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-004	Barium	751	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-007	Iron	37000	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-007	Manganese	464	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-007	Barium	664	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-010	Tin	114	45		1000000.00	1000000.00	mg/kg-dry
CA39-010	Lead	235	20	54.62	1000.00	1000.00	mg/kg-dry
CA39-010	Manganese	549	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-010	Vanadium	106	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-010	Barium	655	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-010	Iron	48200	2500	18037.00	613000.00	613000.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-006	Manganese	512	200	365.08	66800.00	66800.00	mg/kg-dry
CA38-006	Iron	35900	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA38-006	Barium	552	150	141.26	134000.00	134000.00	mg/kg-dry
CA38-006	Vanadium	132	100	45.59	14300.00	14300.00	mg/kg-dry
CA38-004	Manganese	564	200	365.08	66800.00	66800.00	mg/kg-dry
CA38-004	Iron	31400	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA38-004	Barium	447	150	141.26	134000.00	134000.00	mg/kg-dry
CA38-003	Manganese	557	200	365.08	66800.00	66800.00	mg/kg-dry
CA38-003	Iron	35600	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA38-003	Barium	708	150	141.26	134000.00	134000.00	mg/kg-dry
CA38-001	Manganese	482	200	365.08	66800.00	66800.00	mg/kg
CA38-001	Iron	31000	2500	18037.00	613000.00	613000.00	mg/kg
CA38-001	Barium	689	150	141.26	134000.00	134000.00	mg/kg
CA39-002	Iron	29700	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-002	Manganese	552	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-002	Strontium	264	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-002	Barium	607	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-005	Manganese	378	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-005	Iron	27200	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-005	Barium	816	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-008	Manganese	432	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-008	Iron	30100	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-008	Zinc	437	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-008	Barium	694	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-011	Iron	28900	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-011	Zinc	550	300	73.76	613000.00	613000.00	mg/kg-dry
CA39-011	Barium	610	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-001	Manganese	589	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-001	Strontium	358	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-001	Iron	27600	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-001	Barium	670	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-013	Manganese	449	200	365.08	66800.00	66800.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-013	Iron	32400	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-013	Barium	644	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-012	Manganese	462	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-012	Iron	30300	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-012	Barium	674	150	141.26	134000.00	134000.00	mg/kg-dry
CA38-000	Manganese	476	200	365.08	66800.00	66800.00	mg/kg-dry
CA38-000	Iron	35600	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA38-000	Vanadium	103	100	45.59	14300.00	14300.00	mg/kg-dry
CA38-000	Barium	663	150	141.26	134000.00	134000.00	mg/kg-dry
CA38-002	Iron	32300	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA38-002	Manganese	457	200	365.08	66800.00	66800.00	mg/kg-dry
CA38-002	Barium	604	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-009	Strontium	252	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ38-009	Manganese	746	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-009	Iron	38200	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-009	Vanadium	106	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-009	Barium	622	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-A08	Iron	43400	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-A08	Manganese	831	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-A08	Barium	862	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-006	Barium	405	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-005	Barium	634	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-005	Manganese	599	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-005	Iron	34500	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-002	Iron	29500	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-002	Manganese	392	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-002	Barium	519	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-002	Vanadium	106	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-003	Barium	592	150	141.26	134000.00	134000.00	mg/kg-dry
BZ38-003	Iron	30200	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ38-003	Manganese	506	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-004	Iron	33800	2500	18037.00	613000.00	613000.00	mg/kg-dry

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-004	Manganese	644	200	365.08	66800.00	66800.00	mg/kg-dry
BZ38-004	Vanadium	104	100	45.59	14300.00	14300.00	mg/kg-dry
BZ38-004	Barium	668	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-012	Strontium	279	250	48.94	1000000.00	1000000.00	mg/kg-dry
CA39-012	Manganese	520	200	365.08	66800.00	66800.00	mg/kg-dry
CA39-012	Iron	33400	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-012	Barium	731	150	141.26	134000.00	134000.00	mg/kg-dry
CA39-013	Nickel	64.1	60	14.91	40900.00	40900.00	mg/kg-dry
CA39-013	Iron	41300	2500	18037.00	613000.00	613000.00	mg/kg-dry
CA39-013	Vanadium	118	100	45.59	14300.00	14300.00	mg/kg-dry
CA39-013	Barium	742	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-024	Strontium	270	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-024	Barium	736	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-024	Vanadium	140	100	45.59	14300.00	14300.00	mg/kg-dry
BZ39-024	Manganese	625	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-024	Iron	44800	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-025	Manganese	624	200	365.08	66800.00	66800.00	mg/kg-dry
BZ39-025	Strontium	391	250	48.94	1000000.00	1000000.00	mg/kg-dry
BZ39-025	Barium	827	150	141.26	134000.00	134000.00	mg/kg-dry
BZ39-025	Iron	31300	2500	18037.00	613000.00	613000.00	mg/kg-dry
BZ39-030	Uranium-235	0.181	1	0.09	113.00	24.00	pCi/g
BZ39-011	Uranium-234	4.29	8	2.00	1627.00	307.00	pCi/g
BZ39-011	Uranium-238	4.29	8	2.00	506.00	103.00	pCi/g
BZ39-011	Uranium-235	0.276	1	0.09	113.00	24.00	pCi/g
BZ39-032	Uranium-235	0.147	1	0.09	113.00	24.00	pCi/g
BZ39-031	Uranium-235	0.147	1	0.09	113.00	24.00	pCi/g
CA39-003	Uranium-234	2.34	8	2.00	1627.00	307.00	pCi/g
CA39-003	Uranium-238	2.34	8	2.00	506.00	103.00	pCi/g
CA38-005	Uranium-235	0.147	1	0.09	113.00	24.00	pCi/g
BZ39-008	Uranium-235	0.51	1	0.09	113.00	24.00	pCi/g
BZ39-018	Uranium-235	0.287	1	0.09	113.00	24.00	pCi/g
BZ39-018	Uranium-234	4.86	8	2.00	1627.00	307.00	pCi/g

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-018	Uranium-238	4.86	8	2.00	506.00	103.00	pCi/g
BZ39-009	Uranium-234	6.39	8	2.00	1627.00	307.00	pCi/g
BZ39-009	Uranium-238	6.39	8	2.00	506.00	103.00	pCi/g
BZ39-014	Uranium-234	3.81	8	2.00	1627.00	307.00	pCi/g
BZ39-014	Uranium-238	3.81	8	2.00	506.00	103.00	pCi/g
BZ38-007	Uranium-235	0.312	1	0.09	113.00	24.00	pCi/g
BZ39-007	Uranium-234	3.21	8	2.00	1627.00	307.00	pCi/g
BZ38-007	Uranium-238	3.21	8	2.00	506.00	103.00	pCi/g
BZ39-017	Uranium-234	3.78	8	2.00	1627.00	307.00	pCi/g
BZ39-017	Uranium-238	3.78	8	2.00	506.00	103.00	pCi/g
BZ39-017	Uranium-235	0.194	1	0.09	113.00	24.00	pCi/g
BZ39-010	Uranium-234	3.07	8	2.00	1627.00	307.00	pCi/g
BZ39-010	Uranium-238	3.07	8	2.00	506.00	103.00	pCi/g
BZ39-013	Uranium-234	3.77	8	2.00	1627.00	307.00	pCi/g
BZ39-013	Uranium-238	3.77	8	2.00	506.00	103.00	pCi/g
BZ39-006	Uranium-234	5.36	8	2.00	1627.00	307.00	pCi/g
BZ39-006	Uranium-238	5.36	8	2.00	506.00	103.00	pCi/g
BZ39-006	Americium-241	0.263	4	0.02	209.00	38.00	pCi/g
BZ39-016	Uranium-234	3.89	8	2.00	1627.00	307.00	pCi/g
BZ39-016	Uranium-238	3.89	8	2.00	506.00	103.00	pCi/g
BZ39-016	Uranium-235	0.239	1	0.09	113.00	24.00	pCi/g
BZ39-007	Uranium-235	0.122	1	0.09	113.00	24.00	pCi/g
BZ39-011	Uranium-234	4.29	8	2.00	1627.00	307.00	pCi/g
CA39-004	Uranium-234	5.24	8	2.00	1627.00	307.00	pCi/g
CA39-004	Uranium-238	5.24	8	2.00	506.00	103.00	pCi/g
CA39-004	Uranium-235	0.138	1	0.09	113.00	24.00	pCi/g
CA39-007	Uranium-235	0.178	1	0.09	113.00	24.00	pCi/g
CA39-007	Uranium-234	3.43	8	2.00	1627.00	307.00	pCi/g
CA39-007	Uranium-238	3.43	8	2.00	506.00	103.00	pCi/g
CA39-010	Uranium-234	4.29	8	2.00	1627.00	307.00	pCi/g
CA39-010	Uranium-238	4.29	8	2.00	506.00	103.00	pCi/g
CA39-010	Uranium-235	0.228	1	0.09	113.00	24.00	pCi/g

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-006	Uranium-235	0.165	1	0.09	113.00	24.00	pCi/g
CA38-006	Uranium-234	3.18	8	2.00	1627.00	307.00	pCi/g
CA38-006	Uranium-238	3.18	8	2.00	506.00	103.00	pCi/g
CA38-004	Uranium-235	0.313	1	0.09	113.00	24.00	pCi/g
CA38-004	Uranium-234	4.52	8	2.00	1627.00	307.00	pCi/g
CA38-004	Uranium-238	4.52	8	2.00	506.00	103.00	pCi/g
CA38-003	Uranium-235	0.302	1	0.09	113.00	24.00	pCi/g
CA38-003	Uranium-234	3.96	8	2.00	1627.00	307.00	pCi/g
CA38-003	Uranium-238	3.96	8	2.00	506.00	103.00	pCi/g
CA38-001	Uranium-234	3.71	8	2.00	1627.00	307.00	pCi/g
CA38-001	Uranium-238	3.71	8	2.00	506.00	103.00	pCi/g
CA38-001	Uranium-235	0.207	1	0.09	113.00	24.00	pCi/g
CA39-002	Uranium-235	0.3	1	0.09	113.00	24.00	pCi/g-dry
CA39-005	Uranium-234	3.79	8	2.00	1627.00	307.00	pCi/g
CA39-005	Uranium-238	3.79	8	2.00	506.00	103.00	pCi/g
CA39-005	Uranium-235	0.257	1	0.09	113.00	24.00	pCi/g
CA39-008	Uranium-235	0.192	1	0.09	113.00	24.00	pCi/g
CA39-011	Uranium-235	0.215	1	0.09	113.00	24.00	pCi/g
CA39-011	Uranium-234	2.59	8	2.00	1627.00	307.00	pCi/g
CA39-011	Uranium-238	2.59	8	2.00	506.00	103.00	pCi/g
CA39-001	Uranium-235	0.2	1	0.09	113.00	24.00	pCi/g-dry
BZ38-013	Uranium-234	4.52	8	2.00	1627.00	307.00	pCi/g
BZ38-013	Uranium-238	4.52	8	2.00	506.00	103.00	pCi/g
BZ38-013	Uranium-235	0.299	1	0.09	113.00	24.00	pCi/g
BZ38-012	Uranium-234	5.34	8	2.00	1627.00	307.00	pCi/g
BZ38-012	Uranium-238	5.34	8	2.00	506.00	103.00	pCi/g
BZ38-012	Uranium-235	0.229	1	0.09	113.00	24.00	pCi/g
CA38-000	Uranium-235	0.33	1	0.09	113.00	24.00	pCi/g
CA38-000	Uranium-234	7.45	8	2.00	1627.00	307.00	pCi/g
CA38-000	Uranium-238	7.45	8	2.00	506.00	103.00	pCi/g
CA38-002	Uranium-234	3.49	8	2.00	1627.00	307.00	pCi/g
CA38-002	Uranium-238	3.49	8	2.00	506.00	103.00	pCi/g

Table 3 IHSS Group 600-2 Surface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-002	Uranium-235	0.296	1	0.09	113.00	24.00	pCi/g
BZ38-009	Uranium-235	0.2	1	0.09	113.00	24.00	pCi/g-dry
BZ38-A08	Uranium-235	0.1	1	0.09	113.00	24.00	pCi/g-dry
BZ38-006	Uranium-235	0.1	1	0.09	113.00	24.00	pCi/g-dry
BZ38-005	Uranium-235	0.3	1	0.09	113.00	24.00	pCi/g-dry
BZ38-002	Uranium-234	6.38	8	2.00	1627.00	307.00	pCi/g
BZ38-002	Uranium-238	6.38	8	2.00	506.00	103.00	pCi/g
BZ38-003	Uranium-235	0.1	1	0.09	113.00	24.00	pCi/g-dry
BZ38-002	Uranium-235	0.207	1	0.09	113.00	24.00	pCi/g
BZ38-002	Uranium-235	0.3	1	0.09	113.00	24.00	pCi/g-dry
BZ38-004	Uranium-235	0.2	1	0.09	113.00	24.00	pCi/g-dry
CA39-013	Uranium-235	0.2	1	0.09	113.00	24.00	pCi/g-dry
BZ39-024	Uranium-235	0.21	1	0.09	113.00	24.00	pCi/g-dry
BZ39-025	Uranium-235	0.2	1	0.09	113.00	24.00	pCi/g-dry

Table 4 IHSS Group 600-2 Subsurface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-010	Copper	69	300	38.21	75600.00	75600.00	mg/kg-dry
BZ38-011	Zinc	170	300	139.10	613000.00	613000.00	mg/kg-dry
BZ38-011	Copper	77	300	38.21	75600.00	75600.00	mg/kg-dry
BZ39-020	Copper	100	300	38.21	75600.00	75600.00	mg/kg-dry
BZ39-020	Zinc	210	300	139.10	613000.00	613000.00	mg/kg-dry
BZ39-021	Copper	91	300	38.21	75600.00	75600.00	mg/kg-dry
BZ39-021	Arsenic	14	25	13.14	381.00	3.81	mg/kg-dry
BZ39-021	Zinc	210	300	139.10	613000.00	613000.00	mg/kg-dry
BZ39-022	Copper	53	300	38.21	75600.00	75600.00	mg/kg-dry
BZ39-022	Cadmium	1.8	85	1.70	2040.00	2040.00	mg/kg-dry
BZ38-010	Iron	49600	2500	41046.52	613000.00	613000.00	mg/kg-dry
BZ38-010	Manganese	1030	200	901.62	66800.00	66800.00	mg/kg-dry
BZ38-010	Barium	666	150	289.38	134000.00	134000.00	mg/kg-dry
BZ38-010	Vanadium	168	100	88.49	14300.00	14300.00	mg/kg-dry
BZ38-011	Iron	78800	2500	41046.52	613000.00	613000.00	mg/kg-dry
BZ38-011	Manganese	1760	200	901.62	66800.00	66800.00	mg/kg-dry
BZ38-011	Vanadium	297	100	88.49	14300.00	14300.00	mg/kg-dry
BZ38-011	Barium	659	150	289.38	134000.00	134000.00	mg/kg-dry
BZ39-020	Iron	72000	2500	41046.52	613000.00	613000.00	mg/kg-dry
BZ39-020	Manganese	1640	200	901.62	66800.00	66800.00	mg/kg-dry
BZ39-020	Vanadium	271	100	88.49	14300.00	14300.00	mg/kg-dry
BZ39-020	Barium	797	150	289.38	134000.00	134000.00	mg/kg-dry
BZ39-021	Nickel	64.2	60	62.21	40900.00	40900.00	mg/kg-dry
BZ39-021	Iron	80000	2500	41046.52	613000.00	613000.00	mg/kg-dry
BZ39-021	Manganese	1520	200	901.62	66800.00	66800.00	mg/kg-dry
BZ39-021	Vanadium	287	100	88.49	14300.00	14300.00	mg/kg-dry
BZ39-021	Barium	805	150	289.38	134000.00	134000.00	mg/kg-dry
BZ39-022	Iron	47700	2500	41046.52	613000.00	613000.00	mg/kg-dry
BZ39-022	Barium	694	150	289.38	134000.00	134000.00	mg/kg-dry
BZ39-022	Vanadium	165	100	88.49	14300.00	14300.00	mg/kg-dry

Table 4 IHSS Group 600-2 Subsurface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-008	Uranium-234	5.67	8	1.49	1627.00	307.00	pCi/g
BZ39-008	Uranium-238	5.67	8	1.49	506.00	103.00	pCi/g
BZ39-011	Uranium-234	3.59	8	1.49	1627.00	307.00	pCi/g
BZ39-011	Uranium-238	3.59	8	1.49	506.00	103.00	pCi/g
BZ39-011	Uranium-235	0.275	1	0.12	113.00	24.00	pCi/g
CA39-003	Uranium-235	0.206	1	0.12	113.00	24.00	pCi/g
CA39-003	Uranium-234	3.63	8	1.49	1627.00	307.00	pCi/g
CA39-003	Uranium-238	3.63	8	1.49	506.00	103.00	pCi/g
CA38-005	Uranium-234	3.72	8	1.49	1627.00	307.00	pCi/g
CA38-005	Uranium-238	3.72	8	1.49	506.00	103.00	pCi/g
BZ39-008	Uranium-235	0.337	1	0.12	113.00	24.00	pCi/g
BZ39-018	Uranium-234	3.51	8	1.49	1627.00	307.00	pCi/g
BZ39-018	Uranium-238	3.51	8	1.49	506.00	103.00	pCi/g
BZ39-009	Uranium-234	4.18	8	1.49	1627.00	307.00	pCi/g
BZ39-009	Uranium-238	4.18	8	1.49	506.00	103.00	pCi/g
BZ39-009	Uranium-235	0.385	1	0.12	113.00	24.00	pCi/g
BZ39-009	Uranium-234	4.18	8	1.49	1627.00	307.00	pCi/g
BZ39-009	Uranium-238	4.18	8	1.49	506.00	103.00	pCi/g
BZ39-014	Uranium-235	0.31	1	0.12	113.00	24.00	pCi/g
BZ38-007	Uranium-235	0.239	1	0.12	113.00	24.00	pCi/g
BZ38-007	Uranium-234	6	8	1.49	1627.00	307.00	pCi/g
BZ38-007	Uranium-238	6	8	1.49	506.00	103.00	pCi/g
BZ39-017	Uranium-234	3.65	8	1.49	1627.00	307.00	pCi/g
BZ39-017	Uranium-238	3.65	8	1.49	506.00	103.00	pCi/g
BZ39-010	Uranium-234	5.63	8	1.49	1627.00	307.00	pCi/g
BZ39-010	Uranium-238	5.63	8	1.49	506.00	103.00	pCi/g
BZ39-013	Uranium-234	3.44	8	1.49	1627.00	307.00	pCi/g
BZ39-013	Uranium-238	3.44	8	1.49	506.00	103.00	pCi/g
BZ39-013	Uranium-235	0.347	1	0.12	113.00	24.00	pCi/g
BZ39-006	Uranium-235	0.304	1	0.12	113.00	24.00	pCi/g
BZ39-006	Uranium-234	5.73	8	1.49	1627.00	307.00	pCi/g

Table 4 IHSS Group 600-2 Subsurface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-006	Uranium-238	5.73	8	1.49	506.00	103.00	pCi/g
BZ39-016	Uranium-234	5	8	1.49	1627.00	307.00	pCi/g
BZ39-016	Uranium-238	5	8	1.49	506.00	103.00	pCi/g
BZ39-016	Uranium-235	0.339	1	0.12	113.00	24.00	pCi/g
BZ39-007	Uranium-234	3.99	8	1.49	1627.00	307.00	pCi/g
BZ39-007	Uranium-238	3.99	8	1.49	506.00	103.00	pCi/g
BZ39-007	Uranium-235	0.226	1	0.12	113.00	24.00	pCi/g
CA39-004	Uranium-234	2.35	8	1.49	1627.00	307.00	pCi/g
CA39-004	Uranium-238	2.35	8	1.49	506.00	103.00	pCi/g
CA39-004	Uranium-235	0.209	1	0.12	113.00	24.00	pCi/g
CA39-007	Uranium-234	5.27	8	1.49	1627.00	307.00	pCi/g
CA39-007	Uranium-238	5.27	8	1.49	506.00	103.00	pCi/g
CA39-010	Uranium-234	2.48	8	1.49	1627.00	307.00	pCi/g
CA39-010	Uranium-238	2.48	8	1.49	506.00	103.00	pCi/g
CA39-010	Uranium-235	0.258	1	0.12	113.00	24.00	pCi/g
CA38-006	Uranium-235	0.14	1	0.12	113.00	24.00	pCi/g
CA38-006	Uranium-234	2.09	8	1.49	1627.00	307.00	pCi/g
CA38-006	Uranium-238	2.09	8	1.49	506.00	103.00	pCi/g
CA38-004	Uranium-235	0.246	1	0.12	113.00	24.00	pCi/g
CA38-004	Uranium-234	3.16	8	1.49	1627.00	307.00	pCi/g
CA38-004	Uranium-238	3.16	8	1.49	506.00	103.00	pCi/g
CA38-003	Uranium-234	4.46	8	1.49	1627.00	307.00	pCi/g
CA38-003	Uranium-238	4.46	8	1.49	506.00	103.00	pCi/g
CA38-003	Uranium-235	0.419	1	0.12	113.00	24.00	pCi/g
CA38-001	Uranium-234	3.13	8	1.49	1627.00	307.00	pCi/g
CA38-001	Uranium-238	3.13	8	1.49	506.00	103.00	pCi/g
CA39-002	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
CA39-005	Uranium-235	0.212	1	0.12	113.00	24.00	pCi/g
CA39-005	Uranium-234	3.23	8	1.49	1627.00	307.00	pCi/g
CA39-005	Uranium-238	3.23	8	1.49	506.00	103.00	pCi/g
CA39-008	Uranium-234	3.68	8	1.49	1627.00	307.00	pCi/g

Table 4 IHSS Group 600-2 Subsurface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-008	Uranium-238	3.68	8	1.49	506.00	103.00	pCi/g
CA39-008	Uranium-235	0.246	1	0.12	113.00	24.00	pCi/g
CA39-011	Uranium-234	4.12	8	1.49	1627.00	307.00	pCi/g
CA39-011	Uranium-238	4.12	8	1.49	506.00	103.00	pCi/g
CA39-011	Uranium-235	0.32	1	0.12	113.00	24.00	pCi/g
CA39-001	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ38-013	Uranium-235	0.332	1	0.12	113.00	24.00	pCi/g
BZ38-013	Uranium-234	4.01	8	1.49	1627.00	307.00	pCi/g
BZ38-013	Uranium-238	4.01	8	1.49	506.00	103.00	pCi/g
BZ38-012	Uranium-235	0.224	1	0.12	113.00	24.00	pCi/g
BZ38-012	Uranium-234	2.17	8	1.49	1627.00	307.00	pCi/g
BZ38-012	Uranium-238	2.17	8	1.49	506.00	103.00	pCi/g
CA38-000	Uranium-235	0.24	1	0.12	113.00	24.00	pCi/g
CA38-000	Uranium-234	2.45	8	1.49	1627.00	307.00	pCi/g
CA38-000	Uranium-238	2.45	8	1.49	506.00	103.00	pCi/g
CA38-002	Uranium-235	0.161	1	0.12	113.00	24.00	pCi/g
CA38-002	Uranium-234	4.74	8	1.49	1627.00	307.00	pCi/g
CA38-002	Uranium-238	4.74	8	1.49	506.00	103.00	pCi/g
BZ38-010	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ38-011	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ39-020	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ39-021	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ38-008	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ38-005	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ38-002	Uranium-234	3.85	8	1.49	1627.00	307.00	pCi/g
BZ38-002	Uranium-238	3.85	8	1.49	506.00	103.00	pCi/g
BZ38-002	Uranium-235	0.27	1	0.12	113.00	24.00	pCi/g
BZ38-002	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ38-003	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ38-004	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
CA39-013	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry

Table 4 IHSS Group 600-2 Subsurface Soil Accelerated Action Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-010	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ38-011	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ39-020	Uranium-235	0.4	1	0.12	113.00	24.00	pCi/g-dry
BZ39-021	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ39-022	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ38-010	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry
BZ38-011	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ39-020	Uranium-235	0.4	1	0.12	113.00	24.00	pCi/g-dry
BZ39-021	Uranium-235	0.2	1	0.12	113.00	24.00	pCi/g-dry
BZ39-022	Uranium-235	0.3	1	0.12	113.00	24.00	pCi/g-dry

Table 5 Soil Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limits Collected During the IHSS Group 400-7 Investigation

IHSS/ PAC/ UBC	Location	Analyte	Depth Start (feet)	Depth End (feet)	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
157.1	BZ39-000	2-Methylnaphthalene	0	0.5	210	60	N/A	76800000.00	76800000.00	ug/kg
157.1	BZ39-000	Acenaphthene	0	0.5	750	47	N/A	115000000.00	115000000.00	ug/kg
157.1	BZ39-000	Aluminum	0	0.5	23000	1.2	16902.00	1000000.00	1000000.00	mg/kg
157.1	BZ39-000	Anthracene	0	0.5	910	79	N/A	576000000.00	576000000.00	ug/kg
157.1	BZ39-000	Benzo(A)Anthracene	0	0.5	1200	40	N/A	614000.00	6140.00	ug/kg
157.1	BZ39-000	Benzo(A)Pyrene	0	0.5	1000	96	N/A	61400.00	614.00	ug/kg
157.1	BZ39-000	Benzo(B)Fluoranthene	0	0.5	1100	100	N/A	614000.00	6140.00	ug/kg
157.1	BZ39-000	Benzo(K)Fluoranthene	0	0.5	990	95	N/A	6140000.00	61400.00	ug/kg
157.1	BZ39-000	Chromium	0	0.5	26	0.053	16.99	44300.00	4410.00	mg/kg
157.1	BZ39-000	Chrysene	0	0.5	1200	54	N/A	61400000.00	614000.00	ug/kg
157.1	BZ39-000	Dibenz(A,H)Anthracene	0	0.5	280	48	N/A	61400.00	614.00	ug/kg
157.1	BZ39-000	Dibenzofuran	0	0.5	370	83	N/A	7680000.00	7680000.00	ug/kg
157.1	BZ39-000	Fluoranthene	0	0.5	4100	86	N/A	76800000.00	76800000.00	ug/kg
157.1	BZ39-000	Fluorene	0	0.5	600	77	N/A	76800000.00	76800000.00	ug/kg
157.1	BZ39-000	Indeno(1,2,3-Cd)Pyrene	0	0.5	650	49	N/A	614000.00	6140.00	ug/kg
157.1	BZ39-000	Iron	0	0.5	20300	1.4	18037.00	576000.00	576000.00	mg/kg
157.1	BZ39-000	Lithium	0	0.5	14.4	0.17	11.55	38400.00	38400.00	mg/kg
157.1	BZ39-000	Naphthalene	0	0.5	690	71	N/A	76800000.00	76800000.00	ug/kg
157.1	BZ39-000	Nickel	0	0.5	18.2	0.64	14.91	38400.00	38400.00	mg/kg
157.1	BZ39-000	Pyrene	0	0.5	3000	41	N/A	57600000.00	57600000.00	ug/kg
157.1	BZ39-001	Acenaphthene	0	0.5	170	47	N/A	115000000.00	115000000.00	ug/kg
157.1	BZ39-001	Anthracene	0	0.5	170	80	N/A	576000000.00	576000000.00	ug/kg
157.1	BZ39-001	Barium	0	0.5	185	0.039	141.26	133000.00	133000.00	mg/kg
157.1	BZ39-001	Benzo(A)Anthracene	0	0.5	260	40	N/A	614000.00	6140.00	ug/kg
157.1	BZ39-001	Benzo(A)Pyrene	0	0.5	290	96	N/A	61400.00	614.00	ug/kg
157.1	BZ39-001	Benzo(B)Fluoranthene	0	0.5	240	100	N/A	614000.00	6140.00	ug/kg
157.1	BZ39-001	Benzo(K)Fluoranthene	0	0.5	220	95	N/A	6140000.00	61400.00	ug/kg
157.1	BZ39-001	Chrysene	0	0.5	290	54	N/A	61400000.00	614000.00	ug/kg
157.1	BZ39-001	Dibenz(A,H)Anthracene	0	0.5	88	48	N/A	61400.00	614.00	ug/kg
157.1	BZ39-001	Fluoranthene	0	0.5	850	86	N/A	76800000.00	76800000.00	ug/kg

Table 5 Soil Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limits Collected During the IHSS Group 400-7 Investigation

IHSS/ PAC/ UBC	Location	Analyte	Depth Start (feet)	Depth End (feet)	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
157.1	BZ39-001	Fluorene	0	0.5	130	77	N/A	76800000.00	76800000.00	ug/kg
157.1	BZ39-001	Indeno(1,2,3-Cd)Pyrene	0	0.5	200	49	N/A	614000.00	6140.00	ug/kg
157.1	BZ39-001	Lithium	0	0.5	11.9	0.17	11.55	38400.00	38400.00	mg/kg
157.1	BZ39-001	Naphthalene	0	0.5	140	71	N/A	76800000.00	76800000.00	ug/kg
157.1	BZ39-001	Pyrene	0	0.5	710	41	N/A	57600000.00	57600000.00	ug/kg
157.1	BZ39-001	Zinc	0	0.5	84.8	0.2	73.76	576000.00	576000.00	mg/kg
442	BZ39-002	Acenaphthene	0	0.5	190	46	N/A	115000000.00	115000000.00	ug/kg
442	BZ39-002	Anthracene	0	0.5	200	78	N/A	576000000.00	576000000.00	ug/kg
442	BZ39-002	Benzo(a)anthracene	0	0.5	420	39	N/A	614000.00	6140.00	ug/kg
442	BZ39-002	Benzo(a)pyrene	0	0.5	380	95	N/A	61400.00	614.00	ug/kg
442	BZ39-002	Benzo(b)fluoranthene	0	0.5	340	100	N/A	614000.00	6140.00	ug/kg
442	BZ39-002	Benzo(k)Fluoranthene	0	0.5	330	94	N/A	6140000.00	61400.00	ug/kg
442	BZ39-002	Chromium	0	0.5	21.1	0.052	16.99	44300.00	4410.00	mg/kg
442	BZ39-002	Chrysene	0	0.5	480	54	N/A	61400000.00	614000.00	ug/kg
442	BZ39-002	Fluoranthene	0	0.5	1100	84	N/A	76800000.00	76800000.00	ug/kg
442	BZ39-002	Indeno(1,2,3-cd)pyrene	0	0.5	240	48	N/A	614000.00	6140.00	ug/kg
442	BZ39-002	Lead	0	0.5	64.2	0.19	54.62	1000.00	1000.00	mg/kg
442	BZ39-002	Pyrene	0	0.5	970	40	N/A	57600000.00	57600000.00	ug/kg
442	BZ39-002	Zinc	0	0.5	76.9	0.2	73.76	576000.00	576000.00	mg/kg
442	BZ39-003	Benzo(a)anthracene	0	0.5	190	41	N/A	614000.00	6140.00	ug/kg
442	BZ39-003	Benzo(a)pyrene	0	0.5	200	98	N/A	61400.00	614.00	ug/kg
442	BZ39-003	Benzo(b)fluoranthene	0	0.5	160	100	N/A	614000.00	6140.00	ug/kg
442	BZ39-003	Benzo(k)Fluoranthene	0	0.5	170	97	N/A	6140000.00	61400.00	ug/kg
442	BZ39-003	Chromium	0	0.5	19.4	0.054	16.99	44300.00	4410.00	mg/kg
442	BZ39-003	Chrysene	0	0.5	220	55	N/A	61400000.00	614000.00	ug/kg
442	BZ39-003	Fluoranthene	0	0.5	410	88	N/A	76800000.00	76800000.00	ug/kg
442	BZ39-003	Indeno(1,2,3-cd)pyrene	0	0.5	160	50	N/A	614000.00	6140.00	ug/kg
442	BZ39-003	Pyrene	0	0.5	430	42	N/A	57600000.00	57600000.00	ug/kg
442	BZ39-004	Acenaphthene	0	0.5	170	47	N/A	115000000.00	115000000.00	ug/kg
442	BZ39-004	Anthracene	0	0.5	170	79	N/A	576000000.00	576000000.00	ug/kg
442	BZ39-004	Benzo(a)anthracene	0	0.5	340	40	N/A	614000.00	6140.00	ug/kg

Table 5 Soil Characterization Data Above Background Mean Plus Two Standard Deviations or Detection/Reporting Limits Collected During the IHSS Group 400-7 Investigation

IHSS/ PAC/ UBC	Location	Analyte	Depth Start (feet)	Depth End (feet)	Result	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
442	BZ39-004	Benzo(a)pyrene	0	0.5	370	96	N/A	61400.00	614.00	ug/kg
442	BZ39-004	Benzo(b)fluoranthene	0	0.5	320	100	N/A	614000.00	6140.00	ug/kg
442	BZ39-004	Benzo(k)Fluoranthene	0	0.5	340	95	N/A	6140000.00	61400.00	ug/kg
442	BZ39-004	Chrysene	0	0.5	390	54	N/A	61400000.00	614000.00	ug/kg
442	BZ39-004	Fluoranthene	0	0.5	880	86	N/A	76800000.00	76800000.00	ug/kg
442	BZ39-004	Fluorene	0	0.5	130	77	N/A	76800000.00	76800000.00	ug/kg
442	BZ39-004	Indeno(1,2,3-cd)pyrene	0	0.5	280	49	N/A	614000.00	6140.00	ug/kg
442	BZ39-004	Pyrene	0	0.5	870	41	N/A	57600000.00	57600000.00	ug/kg
442	BZ39-005	Acenaphthene	0	0.42	130	46	N/A	115000000.00	115000000.00	ug/kg
442	BZ39-005	Anthracene	0	0.42	170	79	N/A	576000000.00	576000000.00	ug/kg
442	BZ39-005	Benzo(a)anthracene	0	0.42	340	39	N/A	614000.00	6140.00	ug/kg
442	BZ39-005	Benzo(a)pyrene	0	0.42	400	95	N/A	61400.00	614.00	ug/kg
442	BZ39-005	Benzo(b)fluoranthene	0	0.42	340	100	N/A	614000.00	6140.00	ug/kg
442	BZ39-005	Benzo(k)Fluoranthene	0	0.42	330	94	N/A	6140000.00	61400.00	ug/kg
442	BZ39-005	Chrysene	0	0.42	410	54	N/A	61400000.00	614000.00	ug/kg
442	BZ39-005	Fluoranthene	0	0.42	980	85	N/A	76800000.00	76800000.00	ug/kg
442	BZ39-005	Indeno(1,2,3-cd)pyrene	0	0.42	300	48	N/A	614000.00	6140.00	ug/kg
442	BZ39-005	Pyrene	0	0.42	780	40	N/A	57600000.00	57600000.00	ug/kg
442	CA39-000	Anthracene	0	0.33	86	80	N/A	576000000.00	576000000.00	ug/kg
442	CA39-000	Benzo(a)anthracene	0	0.33	300	40	N/A	614000.00	6140.00	ug/kg
442	CA39-000	Benzo(a)pyrene	0	0.33	330	96	N/A	61400.00	614.00	ug/kg
442	CA39-000	Benzo(b)fluoranthene	0	0.33	240	100	N/A	614000.00	6140.00	ug/kg
442	CA39-000	Benzo(k)Fluoranthene	0	0.33	260	95	N/A	6140000.00	61400.00	ug/kg
442	CA39-000	Chrysene	0	0.33	330	55	N/A	61400000.00	614000.00	ug/kg
442	CA39-000	Fluoranthene	0	0.33	650	86	N/A	76800000.00	76800000.00	ug/kg
442	CA39-000	Indeno(1,2,3-cd)pyrene	0	0.33	250	49	N/A	614000.00	6140.00	ug/kg
442	CA39-000	Pyrene	0	0.33	630	41	N/A	57600000.00	57600000.00	ug/kg

Table 6 Surface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
1,2,4-Trichlorobenzene	40	0	190.00	173.13	NA	20400000.00	20400000.00	ug/kg
1,2-Dichlorobenzene	40	0	190.00	173.13	NA	184000000.00	184000000.00	ug/kg
2,4,5-Trichlorophenol	40	2.5	1100.00	196.38	NA	204000000.00	204000000.00	ug/kg
2,4,6-Trichlorophenol	40	2.5	950.00	192.63	NA	52000000.00	520000.00	ug/kg
2,4-Dichlorophenol	40	0	190.00	173.13	NA	6130000.00	6130000.00	ug/kg
2,4-Dimethylphenol	40	0	190.00	173.13	NA	40900000.00	40900000.00	ug/kg
2,4-Dinitrophenol	40	0	900.00	838.75	NA	409000000.00	4090000.00	ug/kg
2,4-Dinitrotoluene	40	0	190.00	173.13	NA	842000.00	8420.00	ug/kg
2,6-Dinitrotoluene	40	0	190.00	173.13	NA	842000.00	8420.00	ug/kg
2-Chloronaphthalene	40	0	190.00	173.13	NA	164000000.00	164000000.00	ug/kg
2-Chlorophenol	40	0	190.00	173.13	NA	10200000.00	10200000.00	ug/kg
2-Methylnaphthalene	40	0	190.00	173.13	NA	81800000.00	81800000.00	ug/kg
2-Methylphenol	40	0	190.00	173.13	NA	102000000.00	102000000.00	ug/kg
2-Nitroaniline	40	0	900.00	838.75	NA	123000.00	123000.00	ug/kg
3,3'-Dichlorobenzidine	40	0	750.00	680.00	NA	1270000.00	12700.00	ug/kg
4,6-Dinitro-O-Cresol	40	0	900.00	838.75	NA	204000.00	204000.00	ug/kg
4-Chloroaniline	40	0	190.00	173.13	NA	8180000.00	8180000.00	ug/kg
4-Methylphenol	40	0	190.00	173.13	NA	10200000.00	10200000.00	ug/kg
Acenaphthene	40	7.5	190.00	169.08	NA	123000000.00	123000000.00	ug/kg
Aluminum	6	100	17800.00	13228.33	16902.00	1000000.00	1000000.00	mg/kg
Americium-241	45	100	0.26	0.01	0.02	209.00	38.00	pCi/g
Anthracene	40	7.5	220.00	172.38	NA	613000000.00	613000000.00	ug/kg
Antimony	45	93.33	15.00	3.65	NA	818.00	818.00	mg/kg
Aroclor-1016	5	0	19.00	17.70	NA	286000.00	2860.00	ug/kg
Aroclor-1221	5	0	19.00	17.70	NA	286000.00	2860.00	ug/kg
Aroclor-1232	5	0	19.00	17.70	NA	286000.00	2860.00	ug/kg
Aroclor-1242	5	0	19.00	17.70	NA	286000.00	2860.00	ug/kg
Aroclor-1248	5	0	19.00	17.70	NA	286000.00	2860.00	ug/kg
Aroclor-1254	5	20	73.00	28.50	NA	286000.00	2860.00	ug/kg
Aroclor-1260	5	80	120.00	35.90	NA	286000.00	2860.00	ug/kg
Arsenic	45	100	20.00	10.31	10.09	381.00	3.81	mg/kg

Table 6 Surface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
Barium	45	100	862.00	576.26	141.26	134000.00	134000.00	mg/kg
Benyzl Alcohol	40	0	190.00	173.13	NA	613000000.00	613000000.00	ug/kg
Benzo(A)Anthracene	40	60	870.00	144.50	NA	784000.00	7840.00	ug/kg
Benzo(A)Pyrene	40	17.5	940.00	194.33	NA	78400.00	784.00	ug/kg
Benzo(B)Fluoranthene	40	12.5	890.00	193.13	NA	784000.00	7840.00	ug/kg
Benzo(K)Fluoranthene	40	15	850.00	190.88	NA	7840000.00	78400.00	ug/kg
Benzoic Acid	40	0	900.00	838.75	NA	1000000000.00	1000000000.00	ug/kg
Beryllium	6	100	0.81	0.66	0.97	133.00	1.33	mg/kg
Bis(2-Chloroethyl) Ether	40	0	190.00	173.13	NA	520000.00	5200.00	ug/kg
Bis(2-Ethylhexyl)Phthalate	40	35	4700.00	320.03	NA	40900000.00	409000.00	ug/kg
Butylbenzylphthalate	40	2.5	190.00	171.63	NA	409000000.00	409000000.00	ug/kg
Cadmium	45	95.56	3.80	0.44	1.61	2040.00	2040.00	mg/kg
Chromium	45	100	63.00	34.49	16.99	8720.00	1020.00	mg/kg
Chrysene	40	52.5	380.00	143.88	NA	78400000.00	784000.00	ug/kg
Cobalt	45	100	7.40	0.69	10.91	123000.00	123000.00	mg/kg
Copper	45	100	375.00	73.42	18.06	75600.00	75600.00	mg/kg
Dibenz(A,H)Anthracene	40	7.5	240.00	170.93	NA	78400.00	784.00	ug/kg
Dibenzofuran	40	0	190.00	173.13	NA	8180000.00	8180000.00	ug/kg
Diethyl Phthalate	40	0	375.00	346.13	NA	1000000000.00	1000000000.00	ug/kg
Dimethyl Phthalate	40	0	190.00	173.13	NA	1000000000.00	1000000000.00	ug/kg
Di-N-Octyl Phthalate	39	2.56	190.00	170.28	NA	1000000000.00	40900000.00	ug/kg
Fluoranthene	40	52.5	1800.00	245.38	NA	81800000.00	81800000.00	ug/kg
Fluorene	40	7.5	190.00	167.90	NA	81800000.00	81800000.00	ug/kg
Hexachlorobenzene	40	0	190.00	173.13	NA	358000.00	3580.00	ug/kg
Hexachlorobutadiene	40	0	190.00	173.13	NA	7340000.00	73400.00	ug/kg
Hexachlorocyclopentadiene	40	0	375.00	346.13	NA	13700000.00	13700000.00	ug/kg
Hexachloroethane	40	0	190.00	173.13	NA	40900000.00	409000.00	ug/kg
Indeno(1,2,3-Cd)Pyrene	40	27.5	540.00	163.05	NA	784000.00	7840.00	ug/kg
Iron	45	100	48200.00	31232.89	18037.00	613000.00	613000.00	mg/kg
Isophorone	40	0	190.00	173.13	NA	602000000.00	6020000.00	ug/kg
Lead	45	100	363.00	41.72	54.62	1000.00	1000.00	mg/kg
Lithium	6	100	12.10	11.43	11.55	40900.00	40900.00	mg/kg

Table 6 Surface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
Manganese	45	100	908.00	506.13	365.08	66800.00	66800.00	mg/kg
Mercury	6	100	0.15	0.06	0.13	613.00	613.00	mg/kg
Molybdenum	45	95.56	1.40	0.06	NA	10200.00	10200.00	mg/kg
Naphthalene	40	5	190.00	169.45	NA	81800000.00	81800000.00	ug/kg
Nickel	45	100	64.10	34.78	14.91	40900.00	40900.00	mg/kg
Nitrobenzene	40	0	190.00	173.13	NA	1020000.00	1020000.00	ug/kg
N-Nitroso-Di-N-Propylamine	40	0	190.00	173.13	NA	81700.00	817.00	ug/kg
N-Nitrosodiphenylamine	40	0	190.00	173.13	NA	117000000.00	1170000.00	ug/kg
P-Dichlorobenzene	40	0	190.00	173.13	NA	23800000.00	238000.00	ug/kg
Pentachlorophenol	40	0	900.00	838.75	NA	4770000.00	47700.00	ug/kg
Phenol	40	0	190.00	173.13	NA	1000000000.00	1000000000.00	ug/kg
P-Nitrophenol	40	0	900.00	838.75	NA	16400000.00	16400000.00	ug/kg
Pyrene	40	77.5	1600.00	210.68	NA	61300000.00	61300000.00	ug/kg
Selenium	45	97.78	1.60	0.36	1.22	10200.00	10200.00	mg/kg
Silver	45	88.89	2.60	1.17	NA	10200.00	10200.00	mg/kg
Strontium	45	100	391.00	201.62	48.94	1000000.00	1000000.00	mg/kg
Tin	45	100	114.00	5.03	NA	1000000.00	1000000.00	mg/kg
Uranium-235	46	100	0.51	0.19	0.09	113.00	24.00	pCi/g
Uranium-234	46	100	7.45	3.55	2.00	1627.00	307.00	pCi/g
Uranium-238	46	100	7.45	3.55	2.00	506.00	103.00	pCi/g
Vanadium	45	100	140.00	82.98	45.59	14300.00	14300.00	mg/kg
Zinc	45	100	550.00	142.66	73.76	613000.00	613000.00	mg/kg

Table 7 Subsurface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
1,1,1-Trichloroethane	53	0	0.55	0.43	NA	94782.43	947.82	ug/kg
1,1,2,2-Tetrachloroethane	53	0	0.41	0.35	NA	167.66	1.68	ug/kg
1,1,2-Trichloroethane	53	0	0.51	0.44	NA	1229.39	12.29	ug/kg
1,1-Dichloroethane	53	0	0.48	0.38	NA	688731.08	6887.31	ug/kg
1,1-Dichloroethene	53	0	1.09	0.77	NA	2189.73	21.90	ug/kg
1,2,4-Trichlorobenzene	58	0	195.00	15.68	NA	433432.27	4334.32	ug/kg
1,2-Dichlorobenzene	58	0	195.00	15.65	NA	1317327.18	13173.27	ug/kg
1,2-Dichloroethane	53	0	0.63	0.50	NA	667.92	6.68	ug/kg
1,2-Dichloropropane	53	0	0.35	0.25	NA	1132.30	11.32	ug/kg
1,4-Dichlorobenzene	53	0	0.47	0.38	NA	164719.94	1647.20	ug/kg
2,4,5-Trichlorophenol	5	0	195.00	178.00	NA	278566.94	2785.67	ug/kg
2,4,6-Trichlorophenol	5	0	195.00	178.00	NA	10695.78	106.96	ug/kg
2,4-Dichlorophenol	5	0	195.00	178.00	NA	63543.34	635.43	ug/kg
2,4-Dimethylphenol	5	0	195.00	178.00	NA	577245.13	5772.45	ug/kg
2,4-Dinitrophenol	5	0	950.00	870.00	NA	5291.61	52.92	ug/kg
2,4-Dinitrotoluene	5	0	195.00	178.00	NA	50.08	0.50	ug/kg
2,6-Dinitrotoluene	5	0	195.00	178.00	NA	38.79	0.39	ug/kg
2-Chlorophenol	5	0	195.00	178.00	NA	257382.65	2573.83	ug/kg
2-Methylphenol	5	0	195.00	178.00	NA	706179.84	7061.80	ug/kg
3,3'-Dichlorobenzidine	5	0	750.00	710.00	NA	483.97	4.84	ug/kg
4-Chloroaniline	5	0	195.00	178.00	NA	43745.36	437.45	ug/kg
Acenaphthene	5	40	195.00	132.60	NA	53447405.59	534474.06	ug/kg
Acetone	53	9.43	188.48	14.82	NA	27185853.42	271858.53	ug/kg
Americium-241	50	100	0.00	0.00	0.02	209.00	38.00	pCi/g
Anthracene	5	20	195.00	168.00	NA	1000000000.00	11160395.56	ug/kg
Antimony	5	100	6.50	4.06	16.97	818.00	818.00	mg/kg-dry
Aroclor-1016	7	0	19.00	18.29	NA	531022.56	5310.23	ug/kg
Aroclor-1221	7	0	19.00	18.29	NA	531022.56	5310.23	ug/kg
Aroclor-1232	7	0	19.00	18.29	NA	531022.56	5310.23	ug/kg
Aroclor-1242	7	0	19.00	18.29	NA	531022.56	5310.23	ug/kg
Aroclor-1248	7	0	19.00	18.29	NA	531022.56	5310.23	ug/kg

Table 7 Subsurface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
Aroclor-1254	7	14.28	19.00	17.79	NA	531022.56	5310.23	ug/kg
Aroclor-1260	7	28.57	40.00	24.36	NA	531022.56	5310.23	ug/kg
Arsenic	5	100	14.00	11.08	13.14	381.00	3.81	mg/kg-dry
Barium	5	100	805.00	724.20	289.38	134000.00	134000.00	mg/kg-dry
Benzene	53	0	0.43	0.35	NA	1412.26	14.12	ug/kg
Benzo(A)Anthracene	5	60	230.00	165.20	NA	160046.51	1600.47	ug/kg
Benzo(A)Pyrene	5	40	230.00	187.00	NA	701121.69	7011.22	ug/kg
Benzo(B)Fluoranthene	5	40	195.00	171.00	NA	494598.38	4945.98	ug/kg
Benzo(K)Fluoranthene	5	40	195.00	163.00	NA	4945983.65	49459.84	ug/kg
Benzoic Acid	5	0	950.00	870.00	NA	10879482.82	108794.83	ug/kg
Bis(2-Chloroethyl) Ether	5	0	195.00	178.00	NA	9.73	0.10	ug/kg
Bis(2-Ethylhexyl)Phthalate	5	20	195.00	162.80	NA	311374514.72	3113745.15	ug/kg
Bromodichloromethane	53	0	0.36	0.32	NA	26365.52	263.66	ug/kg
Bromoform	53	0	0.92	0.69	NA	37218.17	372.18	ug/kg
Bromomethane	53	0	1.91	1.37	NA	5980.76	59.81	ug/kg
Butylbenzylphthalate	5	0	195.00	178.00	NA	1000000000.00	14431257.18	ug/kg
Cadmium	5	100	1.80	0.73	1.70	2040.00	2040.00	mg/kg-dry
Carbon Disulfide	53	1.89	1.01	0.34	NA	988025.61	9880.26	ug/kg
Carbon Tetrachloride	53	0	0.52	0.36	NA	3559.83	35.60	ug/kg
Chlorobenzene	53	0	0.54	0.32	NA	83015.96	830.16	ug/kg
Chloroform	53	0	0.37	0.31	NA	21421.86	214.22	ug/kg
Cis-1,3-Dichloropropene	53	0	0.48	0.35	NA	119.96	1.20	ug/kg
Cobalt	5	100	0.00	0.00	29.04	123000.00	123000.00	mg/kg-dry
Copper	5	100	100.00	78.00	38.21	75600.00	75600.00	mg/kg-dry
Dibenz(A,H)Anthracene	5	40	195.00	136.00	NA	152800.98	1528.01	ug/kg
Diethyl Phthalate	5	0	390.00	355.00	NA	31017753.86	310177.54	ug/kg
Di-N-Butyl Phthalate	5	0	195.00	178.00	NA	425516900.83	4255169.01	ug/kg
Di-N-Octyl Phthalate	5	0	195.00	178.00	NA	1000000000.00	1000000000.00	ug/kg
Ethylbenzene	53	0	0.43	0.36	NA	931516.09	9315.16	ug/kg
Fluoranthene	5	60	500.00	270.00	NA	537002709.13	5370027.09	ug/kg
Fluorene	5	0	195.00	178.00	NA	69350554.07	693505.54	ug/kg
Hexachlorobenzene	5	0	195.00	178.00	NA	189098.25	1890.98	ug/kg

Table 7 Subsurface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
Hexachlorobutadiene	58	0	195.00	15.66	NA	201257.28	2012.57	ug/kg
Hexachlorocyclopentadiene	5	0	390.00	355.00	NA	34373465.66	343734.66	ug/kg
Hexachloroethane	5	0	195.00	178.00	NA	37667.04	376.67	ug/kg
Indeno(1,2,3-Cd)Pyrene	5	40	195.00	155.00	NA	1395314.91	13953.15	ug/kg
Iron	5	100	80000.00	65620.00	41046.52	613000.00	613000.00	mg/kg-dry
Isophorone	5	0	195.00	178.00	NA	20904.05	209.04	ug/kg
Lead	5	100	21.00	9.80	24.97	1000.00	1000.00	mg/kg-dry
Manganese	5	100	1760.00	1369.80	901.62	66800.00	66800.00	mg/kg-dry
Methylene Chloride	53	0	0.81	0.43	NA	578.23	5.78	ug/kg
Molybdenum	5	100	0.00	0.00	25.61	10200.00	10200.00	mg/kg-dry
Naphthalene	58	10.34	195.00	15.16	NA	10142197.10	101421.97	ug/kg
Nickel	5	100	64.20	52.44	62.21	40900.00	40900.00	mg/kg-dry
Nitrobenzene	5	0	195.00	178.00	NA	5389.40	53.89	ug/kg
N-Nitroso-Di-N-Propylamine	5	0	195.00	178.00	NA	1.89	0.02	ug/kg
N-Nitrosodiphenylamine	5	0	195.00	178.00	NA	78403.21	784.03	ug/kg
P-Dichlorobenzene	5	0	195.00	178.00	NA	164719.94	1647.20	ug/kg
Pentachlorophenol	5	0	950.00	870.00	NA	2107.04	21.07	ug/kg
Phenol	5	0	195.00	178.00	NA	3754388.79	37543.89	ug/kg
Pyrene	5	60	770.00	326.00	NA	397030114.59	3970301.15	ug/kg
Selenium	5	100	0.78	0.33	4.80	10200.00	10200.00	mg/kg-dry
Silver	5	100	1.50	0.98	24.54	10200.00	10200.00	mg/kg-dry
Strontium	5	100	200.00	180.00	211.38	1000000.00	1000000.00	mg/kg-dry
Styrene	53	0	0.46	0.38	NA	274316.21	2743.16	ug/kg
Tetrachloroethene	53	1.89	9.25	0.73	NA	3150.98	31.51	ug/kg
Tin	5	100	6.20	2.52	286.31	1000000.00	1000000.00	mg/kg-dry
Toluene	53	7.55	0.98	0.32	NA	706982.88	7069.83	ug/kg
Trans-1,3-Dichloropropene	53	0	0.51	0.42	NA	119.96	1.20	ug/kg
Trichloroethene	53	0	0.51	0.40	NA	3284.88	32.85	ug/kg
Uranium-235	51	100	0.42	0.21	0.12	113.00	24.00	pCi/g
Uranium-234	51	100	8.00	3.77	1.49	1627.00	307.00	pCi/g
Uranium-238	51	100	8.00	3.77	1.49	506.00	103.00	pCi/g
Vanadium	5	100	297.00	237.60	88.49	14300.00	14300.00	mg/kg-dry

Table 7 Subsurface Soil Characterization Data Summary by Analyte (IHSS Group 600-2)

Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Background Mean+2sd	Tier I Action Level	Tier II Action Level	Unit
Vinyl Chloride	53	0	1.45	1.03	NA	346.48	3.46	ug/kg
Xylenes, Total	53	0	1.57	1.36	NA	9743227.17	97432.27	ug/kg
Zinc	5	100	210.00	170.00	139.10	613000.00	613000.00	mg/kg-dry

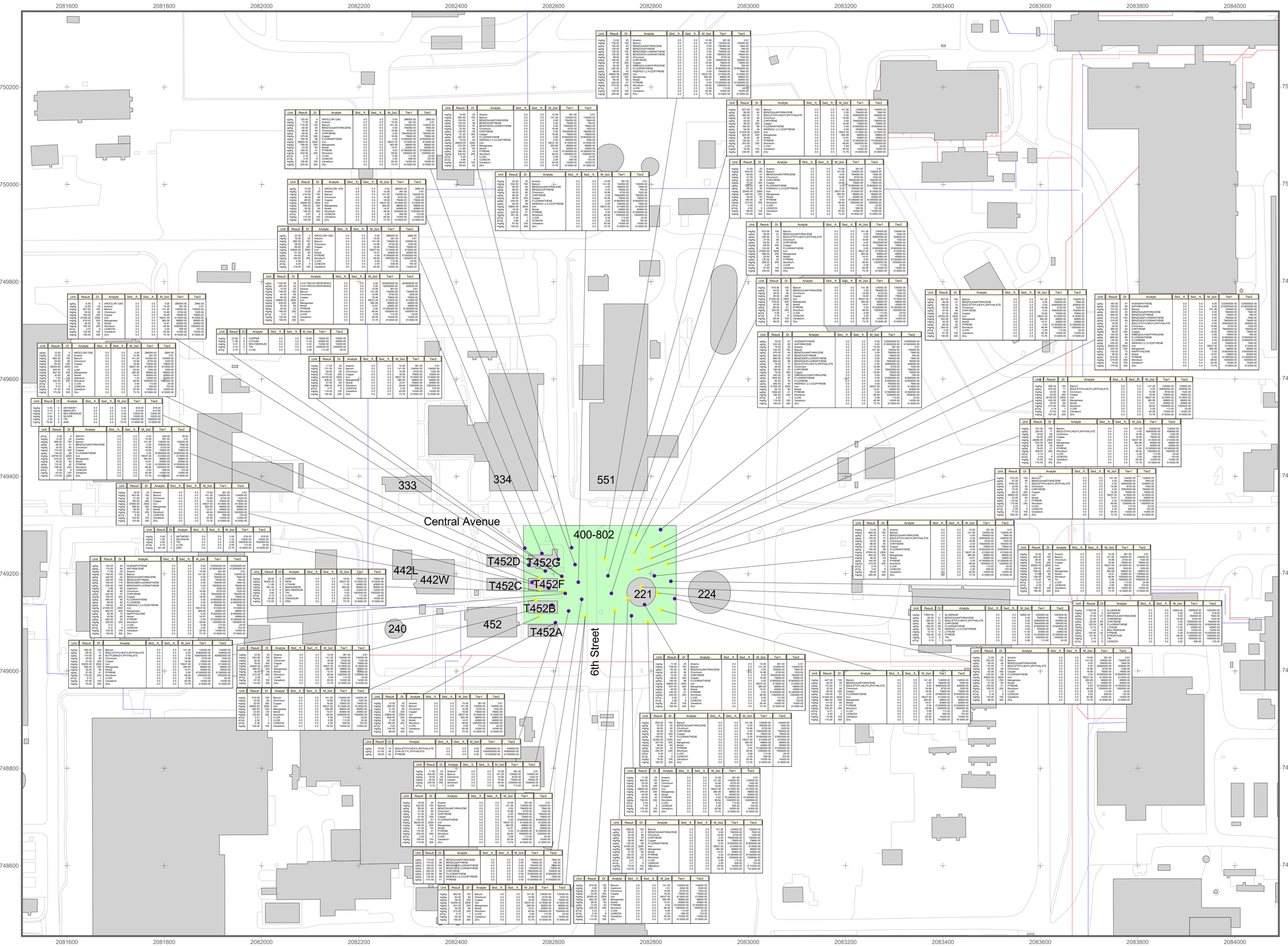

Figure 5
IHSS Group 600-2
Surface Soil Characterization Results Above Background or Detection/Reporting Limits

KEY

- RFCA Tier II Action Levels Exceedance
- Below RFCA Tier II Action Levels
- Building/Structure
- PAC
- Original Process Waste Lines
- New Process Waste Lines
- Paved Road

Notes:
Sbd ft = Sample begin depth
Sed ft = Sample end depth
Dl = Detection/Reporting limit
m_2sd = 0.00 indicates no background value was available for particular analyte

Only results with RFCA ALs are shown.

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N
W E
S

Scale = 1: 1150

200 0 200 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

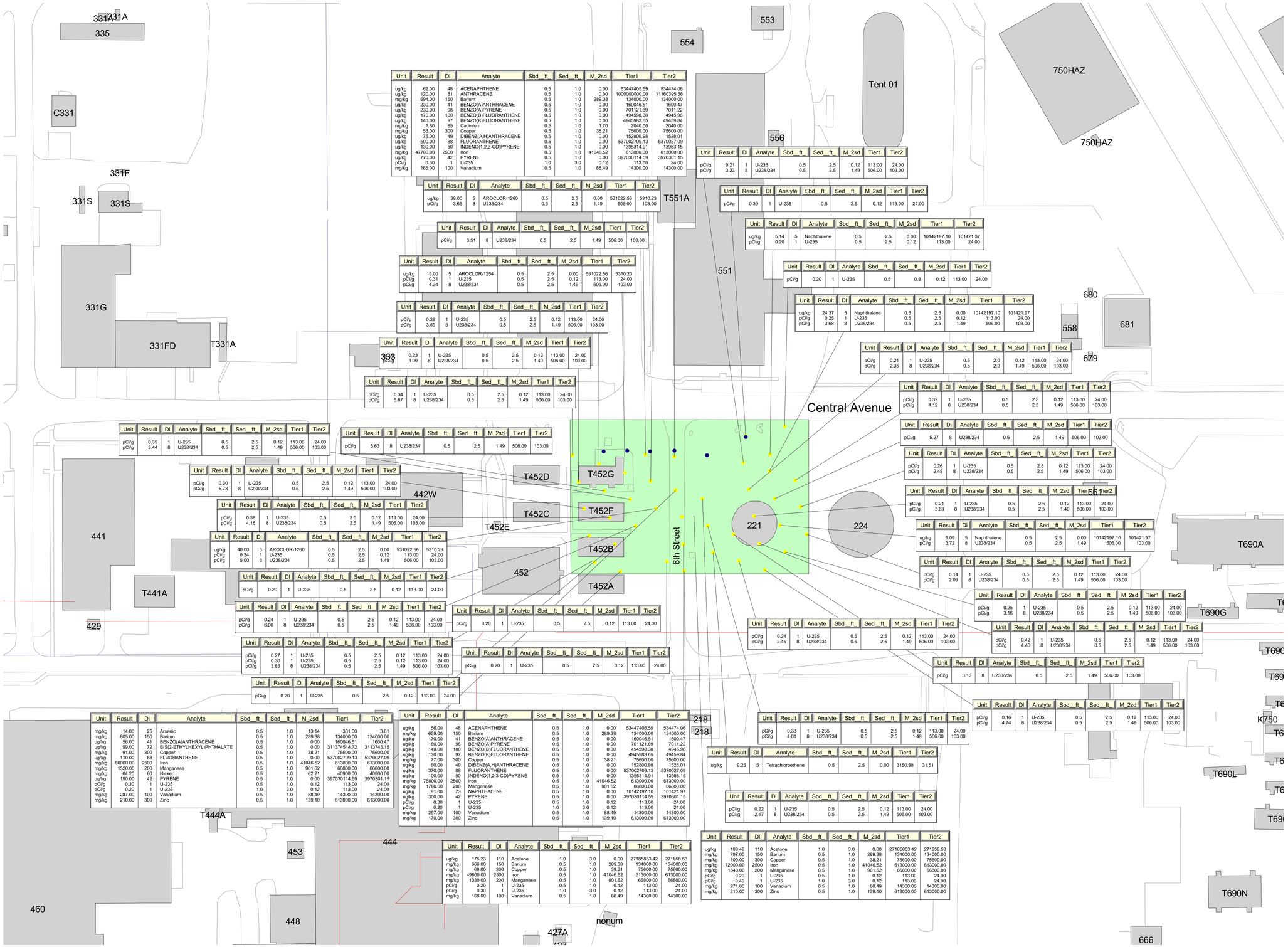
Prepared by: Date: June 2003

RADMS

Prepared for:

KAISER•HILL COMPANY

File: W:\Projects\Fy2003\600-2\600-2_jb_close.apr



Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	62.00	48	ACENAPHTHENE	0.5	1.0	0.00	53447405.59	534474.06
ug/kg	120.00	81	ANTHRACENE	0.5	1.0	0.00	1000000000.00	11160395.56
mg/kg	694.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
ug/kg	230.00	41	BENZO(A)ANTHRACENE	0.5	1.0	0.00	160046.51	1600.47
ug/kg	230.00	98	BENZO(A)PYRENE	0.5	1.0	0.00	701121.69	7011.22
ug/kg	170.00	100	BENZO(B)FLUORANTHENE	0.5	1.0	0.00	494598.38	4945.98
ug/kg	140.00	97	BENZO(K)FLUORANTHENE	0.5	1.0	0.00	4945983.65	49459.84
mg/kg	1.80	85	Cadmium	0.5	1.0	1.70	2040.00	2040.00
mg/kg	53.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
ug/kg	75.00	49	DIBENZ(A,H)ANTHRACENE	0.5	1.0	0.00	152800.98	1528.01
ug/kg	500.00	88	FLUORANTHENE	0.5	1.0	0.00	5370027.09	5370027.09
ug/kg	130.00	50	INDENO(1,2,3-CD)PYRENE	0.5	1.0	0.00	1395314.91	13953.15
mg/kg	47700.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
ug/kg	770.00	42	PYRENE	0.5	1.0	0.00	397030114.59	3970301.15
pCi/g	0.30	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	165.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	38.00	5	AROCLOR-1260	0.5	2.5	0.00	531022.56	5310.23
pCi/g	3.65	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	3.51	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	15.00	5	AROCLOR-1254	0.5	2.5	0.00	531022.56	5310.23
pCi/g	0.31	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.34	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.28	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.59	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.23	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.99	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.34	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	5.67	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.21	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.23	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.30	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	5.14	5	Naphthalene	0.5	2.5	0.00	10142197.10	101421.97
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	0.8	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	24.37	5	Naphthalene	0.5	2.5	0.00	10142197.10	101421.97
pCi/g	0.25	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.68	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.21	1	U-235	0.5	2.0	0.12	113.00	24.00
pCi/g	2.35	8	U238/234	0.5	2.0	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.32	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.12	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	5.27	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.26	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.48	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.21	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.63	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	9.09	5	Naphthalene	0.5	2.5	0.00	10142197.10	101421.97
pCi/g	3.72	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.14	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.09	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.25	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.16	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.42	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.46	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	3.13	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.16	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.74	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.35	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.44	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	5.63	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.30	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	5.73	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.39	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.18	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	40.00	5	AROCLOR-1260	0.5	2.5	0.00	531022.56	5310.23
pCi/g	0.34	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	5.00	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.24	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	6.00	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.27	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	0.30	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.85	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.24	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.45	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	56.00	48	ACENAPHTHENE	0.5	1.0	0.00	53447405.59	534474.06
mg/kg	659.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
ug/kg	170.00	41	BENZO(A)ANTHRACENE	0.5	1.0	0.00	160046.51	1600.47
ug/kg	160.00	98	BENZO(A)PYRENE	0.5	1.0	0.00	701121.69	7011.22
ug/kg	140.00	100	BENZO(B)FLUORANTHENE	0.5	1.0	0.00	494598.38	4945.98
ug/kg	130.00	97	BENZO(K)FLUORANTHENE	0.5	1.0	0.00	4945983.65	49459.84
mg/kg	77.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
ug/kg	60.00	49	DIBENZ(A,H)ANTHRACENE	0.5	1.0	0.00	152800.98	1528.01
ug/kg	370.00	88	FLUORANTHENE	0.5	1.0	0.00	5370027.09	5370027.09
ug/kg	100.00	50	INDENO(1,2,3-CD)PYRENE	0.5	1.0	0.00	1395314.91	13953.15
mg/kg	78800.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1760.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
ug/kg	91.00	73	NAPHTHALENE	0.5	1.0	0.00	10142197.10	101421.97
ug/kg	300.00	42	PYRENE	0.5	1.0	0.00	397030114.59	3970301.15
pCi/g	0.30	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.20	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	297.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00
mg/kg	170.00	300	Zinc	0.5	1.0	139.10	613000.00	613000.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	9.25	5	Tetrachloroethene	0.5	2.5	0.00	3150.98	31.51

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.22	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.17	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	188.48	110	Acetone	1.0	3.0	0.00	27185853.42	271858.53
mg/kg	797.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
mg/kg	100.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
mg/kg	72000.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1640.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
pCi/g	0.20	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.40	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	271.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00
mg/kg	210.00	300	Zinc	0.5	1.0	139.10	613000.00	613000.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
mg/kg	14.00	25	Arsenic	0.5	1.0	13.14	381.00	3.81
mg/kg	805.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
ug/kg	56.00	41	BENZO(A)ANTHRACENE	0.5	1.0	0.00	160046.51	1600.47
ug/kg	99.00	72	BIS(2-ETHYLHEXYL)PHTHALATE	0.5	1.0	0.00	3113745.72	3113745.15
mg/kg	91.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
ug/kg	110.00	88	FLUORANTHENE	0.5	1.0	0.00	5370027.09	5370027.09
mg/kg	80000.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1520.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
mg/kg	64.20	60	Nickel	0.5	1.0	62.21	40900.00	40900.00
ug/kg	190.00	42	PYRENE	0.5	1.0	0.00	397030114.59	3970301.15
pCi/g	0.30	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.20	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	287.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00
mg/kg	210.00	300	Zinc	0.5	1.0	139.10	613000.00	613000.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	175.23	110	Acetone	1.0	3.0	0.00	27185853.42	271858.53
mg/kg	666.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
mg/kg	69.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
mg/kg	49600.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1030.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
pCi/g	0.20	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.30	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	168.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00

Figure 6
IHSS Group 600-2
Subsurface Soil Characterization Results Above Background or Detection/Reporting Limits

KEY

- RFCA Tier II Action Level Exceedance
- Below RFCA Tier II Action Level
- PAC
- Building/Structure
- Original Process Waste Line
- New Process Waste Line
- Paved Road

Notes:
Dl = detection/reporting limit
Sbd_ft = sample begin depth
Sed_ft = sample end depth
M_2sd = background mean plus two standard deviations

Only results with RFCA Action Levels are shown.

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N

Scale = 1: 750

50 0 50 100 150 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: June 2003

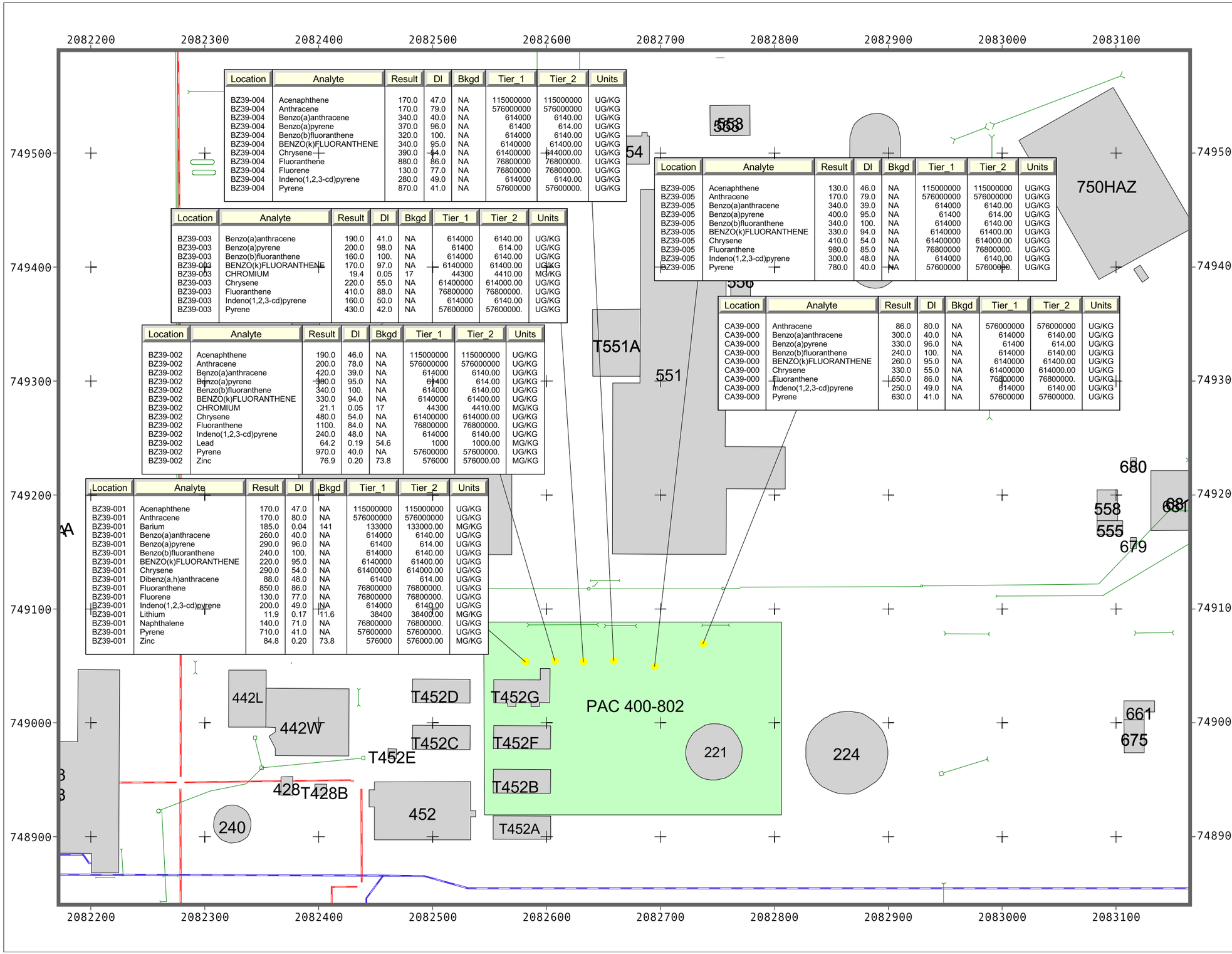
RADMS

Prepared for:

KAISER•HILL COMPANY

File: w:/projects/fy2003/600-2/600-2_Figure 6_djr.apr

Figure 7
Surface Soil Characterization Results Above Background or Detection Limit Collected During IHSS Group 400-7 Investigation



Location	Analyte	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-004	Acenaphthene	170.0	47.0	NA	115000000	115000000	UG/KG
BZ39-004	Anthracene	170.0	79.0	NA	576000000	576000000	UG/KG
BZ39-004	Benzo(a)anthracene	340.0	40.0	NA	614000	6140.00	UG/KG
BZ39-004	Benzo(a)pyrene	370.0	96.0	NA	61400	614.00	UG/KG
BZ39-004	Benzo(b)fluoranthene	320.0	100.	NA	614000	6140.00	UG/KG
BZ39-004	BENZO(k)FLUORANTHENE	340.0	95.0	NA	6140000	61400.00	UG/KG
BZ39-004	Chrysene	390.0	54.0	NA	61400000	614000.00	UG/KG
BZ39-004	Fluoranthene	880.0	86.0	NA	76800000	76800000.	UG/KG
BZ39-004	Fluorene	130.0	77.0	NA	76800000	76800000.	UG/KG
BZ39-004	Indeno(1,2,3-cd)pyrene	280.0	49.0	NA	614000	6140.00	UG/KG
BZ39-004	Pyrene	870.0	41.0	NA	57600000	57600000.	UG/KG

Location	Analyte	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-003	Benzo(a)anthracene	190.0	41.0	NA	614000	6140.00	UG/KG
BZ39-003	Benzo(a)pyrene	200.0	98.0	NA	61400	614.00	UG/KG
BZ39-003	Benzo(b)fluoranthene	160.0	100.	NA	614000	6140.00	UG/KG
BZ39-003	BENZO(k)FLUORANTHENE	170.0	97.0	NA	6140000	61400.00	UG/KG
BZ39-003	CHROMIUM	19.4	0.05	17	44300	4410.00	MG/KG
BZ39-003	Chrysene	220.0	55.0	NA	61400000	614000.00	UG/KG
BZ39-003	Fluoranthene	410.0	88.0	NA	76800000	76800000.	UG/KG
BZ39-003	Indeno(1,2,3-cd)pyrene	160.0	50.0	NA	614000	6140.00	UG/KG
BZ39-003	Pyrene	430.0	42.0	NA	57600000	57600000.	UG/KG

Location	Analyte	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-002	Acenaphthene	190.0	46.0	NA	115000000	115000000	UG/KG
BZ39-002	Anthracene	200.0	78.0	NA	576000000	576000000	UG/KG
BZ39-002	Benzo(a)anthracene	420.0	39.0	NA	614000	6140.00	UG/KG
BZ39-002	Benzo(a)pyrene	380.0	95.0	NA	61400	614.00	UG/KG
BZ39-002	Benzo(b)fluoranthene	340.0	100.	NA	614000	6140.00	UG/KG
BZ39-002	BENZO(k)FLUORANTHENE	330.0	94.0	NA	6140000	61400.00	UG/KG
BZ39-002	CHROMIUM	21.1	0.05	17	44300	4410.00	MG/KG
BZ39-002	Chrysene	480.0	54.0	NA	61400000	614000.00	UG/KG
BZ39-002	Fluoranthene	1100.	84.0	NA	76800000	76800000.	UG/KG
BZ39-002	Indeno(1,2,3-cd)pyrene	240.0	48.0	NA	614000	6140.00	UG/KG
BZ39-002	Lead	64.2	0.19	54.6	1000	1000.00	MG/KG
BZ39-002	Pyrene	970.0	40.0	NA	57600000	57600000.	UG/KG
BZ39-002	Zinc	76.9	0.20	73.8	576000	576000.00	MG/KG

Location	Analyte	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-001	Acenaphthene	170.0	47.0	NA	115000000	115000000	UG/KG
BZ39-001	Anthracene	170.0	80.0	NA	576000000	576000000	UG/KG
BZ39-001	Barium	185.0	0.04	141	133000	133000.00	MG/KG
BZ39-001	Benzo(a)anthracene	260.0	40.0	NA	614000	6140.00	UG/KG
BZ39-001	Benzo(a)pyrene	290.0	96.0	NA	61400	614.00	UG/KG
BZ39-001	Benzo(b)fluoranthene	240.0	100.	NA	614000	6140.00	UG/KG
BZ39-001	BENZO(k)FLUORANTHENE	220.0	95.0	NA	6140000	61400.00	UG/KG
BZ39-001	Chrysene	290.0	54.0	NA	61400000	614000.00	UG/KG
BZ39-001	Dibenz(a,h)anthracene	88.0	48.0	NA	61400	614.00	UG/KG
BZ39-001	Fluoranthene	850.0	86.0	NA	76800000	76800000.	UG/KG
BZ39-001	Fluorene	130.0	77.0	NA	76800000	76800000.	UG/KG
BZ39-001	Indeno(1,2,3-cd)pyrene	200.0	49.0	NA	614000	6140.00	UG/KG
BZ39-001	Lithium	11.9	0.17	11.6	38400	38400.00	MG/KG
BZ39-001	Naphthalene	140.0	71.0	NA	76800000	76800000.	UG/KG
BZ39-001	Pyrene	710.0	41.0	NA	57600000	57600000.	UG/KG
BZ39-001	Zinc	84.8	0.20	73.8	576000	576000.00	MG/KG

Location	Analyte	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-005	Acenaphthene	130.0	46.0	NA	115000000	115000000	UG/KG
BZ39-005	Anthracene	170.0	79.0	NA	576000000	576000000	UG/KG
BZ39-005	Benzo(a)anthracene	340.0	39.0	NA	614000	6140.00	UG/KG
BZ39-005	Benzo(a)pyrene	400.0	95.0	NA	61400	614.00	UG/KG
BZ39-005	Benzo(b)fluoranthene	340.0	100.	NA	614000	6140.00	UG/KG
BZ39-005	BENZO(k)FLUORANTHENE	330.0	94.0	NA	6140000	61400.00	UG/KG
BZ39-005	Chrysene	410.0	54.0	NA	61400000	614000.00	UG/KG
BZ39-005	Fluoranthene	980.0	85.0	NA	76800000	76800000.	UG/KG
BZ39-005	Indeno(1,2,3-cd)pyrene	300.0	48.0	NA	614000	6140.00	UG/KG
BZ39-005	Pyrene	780.0	40.0	NA	57600000	57600000.	UG/KG

Location	Analyte	Result	Dl	Bkgd	Tier_1	Tier_2	Units
CA39-000	Anthracene	86.0	80.0	NA	576000000	576000000	UG/KG
CA39-000	Benzo(a)anthracene	300.0	40.0	NA	614000	6140.00	UG/KG
CA39-000	Benzo(a)pyrene	330.0	96.0	NA	61400	614.00	UG/KG
CA39-000	Benzo(b)fluoranthene	240.0	100.	NA	614000	6140.00	UG/KG
CA39-000	BENZO(k)FLUORANTHENE	260.0	95.0	NA	6140000	61400.00	UG/KG
CA39-000	Chrysene	330.0	55.0	NA	61400000	614000.00	UG/KG
CA39-000	Fluoranthene	650.0	86.0	NA	76800000	76800000.	UG/KG
CA39-000	Indeno(1,2,3-cd)pyrene	250.0	49.0	NA	614000	6140.00	UG/KG
CA39-000	Pyrene	630.0	41.0	NA	57600000	57600000.	UG/KG

Key

- Less than Tier II Action Levels
- Stormwater Drainage
- New Process Waste Line
- Original Process Waste Line
- Dirt Road
- Building
- PAC

Notes:
Bkgd Background Mean + 2 Standard Deviations
Sbd Soil Begin Depth (feet)
Sed Soil End Depth (feet)
NA Not Available

Wildlife Refuge Worker and Ecological Receptor ALs Based on RFCA Attachment 5 Modification

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N
W E
S

Scale 1:1200

60 0 60 120 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: June 2003

RADMS

Prepared for:

KAISER•HILL COMPANY

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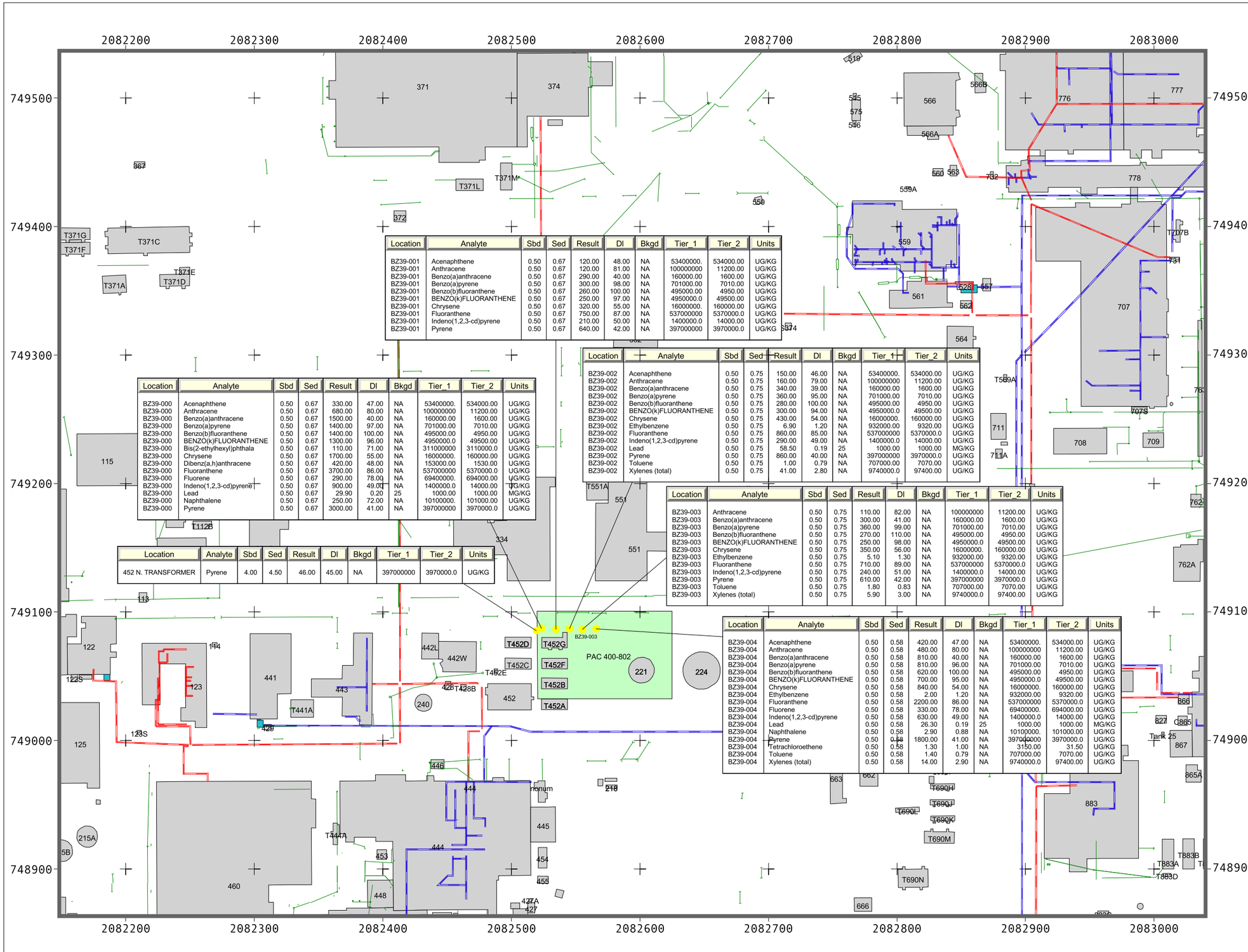
Figure 8
Subsurface Soil Results Greater than Background or Detection/Reporting Limit Collected During IHSS Group 400-7 Investigation



Location	Analyte	Sbd	Sed	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-001	Acenaphthene	0.50	0.67	120.00	48.00	NA	53400000.	534000.00	UG/KG
BZ39-001	Anthracene	0.50	0.67	120.00	81.00	NA	100000000	11200.00	UG/KG
BZ39-001	Benzo(a)anthracene	0.50	0.67	290.00	40.00	NA	160000.00	1600.00	UG/KG
BZ39-001	Benzo(a)pyrene	0.50	0.67	300.00	98.00	NA	701000.00	7010.00	UG/KG
BZ39-001	Benzo(b)fluoranthene	0.50	0.67	260.00	100.00	NA	495000.00	4950.00	UG/KG
BZ39-001	BENZO(k)FLUORANTHENE	0.50	0.67	250.00	97.00	NA	4950000.0	49500.00	UG/KG
BZ39-001	Chrysene	0.50	0.67	320.00	55.00	NA	16000000.	160000.00	UG/KG
BZ39-001	Fluoranthene	0.50	0.67	750.00	87.00	NA	537000000	5370000.0	UG/KG
BZ39-001	Indeno(1,2,3-cd)pyrene	0.50	0.67	210.00	50.00	NA	1400000.0	14000.00	UG/KG
BZ39-001	Pyrene	0.50	0.67	640.00	42.00	NA	397000000	3970000.0	UG/KG

Location	Analyte	Sbd	Sed	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-000	Acenaphthene	0.50	0.67	330.00	47.00	NA	53400000.	534000.00	UG/KG
BZ39-000	Anthracene	0.50	0.67	680.00	80.00	NA	100000000	11200.00	UG/KG
BZ39-000	Benzo(a)anthracene	0.50	0.67	1500.00	40.00	NA	160000.00	1600.00	UG/KG
BZ39-000	Benzo(a)pyrene	0.50	0.67	1400.00	97.00	NA	701000.00	7010.00	UG/KG
BZ39-000	Benzo(b)fluoranthene	0.50	0.67	1400.00	100.00	NA	495000.00	4950.00	UG/KG
BZ39-000	BENZO(k)FLUORANTHENE	0.50	0.67	1300.00	96.00	NA	4950000.0	49500.00	UG/KG
BZ39-000	Bis(2-ethylhexyl)phthala	0.50	0.67	110.00	71.00	NA	311000000	3110000.0	UG/KG
BZ39-000	Chrysene	0.50	0.67	1700.00	55.00	NA	16000000.	160000.00	UG/KG
BZ39-000	Dibenz(a,h)anthracene	0.50	0.67	420.00	48.00	NA	153000.00	1530.00	UG/KG
BZ39-000	Fluoranthene	0.50	0.67	3700.00	86.00	NA	537000000	5370000.0	UG/KG
BZ39-000	Fluorene	0.50	0.67	290.00	78.00	NA	69400000.	694000.00	UG/KG
BZ39-000	Indeno(1,2,3-cd)pyrene	0.50	0.67	900.00	49.00	NA	1400000.0	14000.00	UG/KG
BZ39-000	Lead	0.50	0.67	29.90	0.20	25	1000.00	1000.00	MG/KG
BZ39-000	Naphthalene	0.50	0.67	250.00	72.00	NA	10100000.	101000.00	UG/KG
BZ39-000	Pyrene	0.50	0.67	3000.00	41.00	NA	397000000	3970000.0	UG/KG

Location	Analyte	Sbd	Sed	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-002	Acenaphthene	0.50	0.75	150.00	46.00	NA	53400000.	534000.00	UG/KG
BZ39-002	Anthracene	0.50	0.75	160.00	79.00	NA	100000000	11200.00	UG/KG
BZ39-002	Benzo(a)anthracene	0.50	0.75	340.00	39.00	NA	160000.00	1600.00	UG/KG
BZ39-002	Benzo(a)pyrene	0.50	0.75	360.00	95.00	NA	701000.00	7010.00	UG/KG
BZ39-002	Benzo(b)fluoranthene	0.50	0.75	280.00	100.00	NA	495000.00	4950.00	UG/KG
BZ39-002	BENZO(k)FLUORANTHENE	0.50	0.75	300.00	94.00	NA	4950000.0	49500.00	UG/KG
BZ39-002	Chrysene	0.50	0.75	430.00	54.00	NA	16000000.	160000.00	UG/KG
BZ39-002	Ethylbenzene	0.50	0.75	6.90	1.20	NA	932000.00	9320.00	UG/KG
BZ39-002	Fluoranthene	0.50	0.75	860.00	85.00	NA	537000000	5370000.0	UG/KG
BZ39-002	Indeno(1,2,3-cd)pyrene	0.50	0.75	290.00	49.00	NA	1400000.0	14000.00	UG/KG
BZ39-002	Lead	0.50	0.75	58.50	0.19	25	1000.00	1000.00	MG/KG
BZ39-002	Pyrene	0.50	0.75	860.00	40.00	NA	397000000	3970000.0	UG/KG
BZ39-002	Toluene	0.50	0.75	1.00	0.79	NA	707000.00	7070.00	UG/KG
BZ39-002	Xylenes (total)	0.50	0.75	41.00	2.80	NA	9740000.0	97400.00	UG/KG

Location	Analyte	Sbd	Sed	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-003	Anthracene	0.50	0.75	110.00	82.00	NA	100000000	11200.00	UG/KG
BZ39-003	Benzo(a)anthracene	0.50	0.75	300.00	41.00	NA	160000.00	1600.00	UG/KG
BZ39-003	Benzo(a)pyrene	0.50	0.75	360.00	99.00	NA	701000.00	7010.00	UG/KG
BZ39-003	Benzo(b)fluoranthene	0.50	0.75	270.00	110.00	NA	495000.00	4950.00	UG/KG
BZ39-003	BENZO(k)FLUORANTHENE	0.50	0.75	250.00	98.00	NA	4950000.0	49500.00	UG/KG
BZ39-003	Chrysene	0.50	0.75	350.00	56.00	NA	16000000.	160000.00	UG/KG
BZ39-003	Ethylbenzene	0.50	0.75	5.10	1.30	NA	932000.00	9320.00	UG/KG
BZ39-003	Fluoranthene	0.50	0.75	710.00	89.00	NA	537000000	5370000.0	UG/KG
BZ39-003	Indeno(1,2,3-cd)pyrene	0.50	0.75	240.00	51.00	NA	1400000.0	14000.00	UG/KG
BZ39-003	Pyrene	0.50	0.75	610.00	42.00	NA	397000000	3970000.0	UG/KG
BZ39-003	Toluene	0.50	0.75	1.80	0.83	NA	707000.00	7070.00	UG/KG
BZ39-003	Xylenes (total)	0.50	0.75	5.90	3.00	NA	9740000.0	97400.00	UG/KG

Location	Analyte	Sbd	Sed	Result	Dl	Bkgd	Tier_1	Tier_2	Units
BZ39-004	Acenaphthene	0.50	0.58	420.00	47.00	NA	53400000.	534000.00	UG/KG
BZ39-004	Anthracene	0.50	0.58	480.00	80.00	NA	100000000	11200.00	UG/KG
BZ39-004	Benzo(a)anthracene	0.50	0.58	810.00	40.00	NA	160000.00	1600.00	UG/KG
BZ39-004	Benzo(a)pyrene	0.50	0.58	810.00	96.00	NA	701000.00	7010.00	UG/KG
BZ39-004	Benzo(b)fluoranthene	0.50	0.58	620.00	100.00	NA	495000.00	4950.00	UG/KG
BZ39-004	BENZO(k)FLUORANTHENE	0.50	0.58	700.00	95.00	NA	4950000.0	49500.00	UG/KG
BZ39-004	Chrysene	0.50	0.58	840.00	54.00	NA	16000000.	160000.00	UG/KG
BZ39-004	Ethylbenzene	0.50	0.58	2.00	1.20	NA	932000.00	9320.00	UG/KG
BZ39-004	Fluoranthene	0.50	0.58	2200.00	86.00	NA	537000000	5370000.0	UG/KG
BZ39-004	Fluorene	0.50	0.58	330.00	78.00	NA	69400000.	694000.00	UG/KG
BZ39-004	Indeno(1,2,3-cd)pyrene	0.50	0.58	630.00	49.00	NA	1400000.0	14000.00	UG/KG
BZ39-004	Lead	0.50	0.58	26.30	0.19	25	1000.00	1000.00	MG/KG
BZ39-004	Naphthalene	0.50	0.58	2.90	0.88	NA	10100000.	101000.00	UG/KG
BZ39-004	Pyrene	0.50	0.58	1800.00	41.00	NA	397000000	3970000.0	UG/KG
BZ39-004	Tetrachloroethene	0.50	0.58	1.30	1.00	NA	3150.00	31.50	UG/KG
BZ39-004	Toluene	0.50	0.58	1.40	0.79	NA	707000.00	7070.00	UG/KG
BZ39-004	Xylenes (total)	0.50	0.58	14.00	2.90	NA	9740000.0	97400.00	UG/KG

Location	Analyte	Sbd	Sed	Result	Dl	Bkgd	Tier_1	Tier_2	Units
452 N. TRANSFORMER	Pyrene	4.00	4.50	46.00	45.00	NA	397000000	3970000.0	UG/KG

KEY

- Results Less Than Tier II Action Levels
- Stormwater Drainage
- New Process Waste Line
- Original Process Waste Line
- Dirt Road
- Building
- PAC

Notes:
Bkgd Background Mean + 2 Standard Deviations
Sbd Soil Begin Depth (feet)
Sed Soil End Depth (feet)
NA Not Available

WRW and ER Receptor ALs
Based on RFCA Attachment 5 Modification

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Scale 1:3500

50 0 50 100 150 200 250 300 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: June 2003

RADMS

Prepared for:

KAISER•HILL COMPANY

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Table 8 Radionuclide Sum of Ratios for Surface Soil

Location	Tier I SOR	Tier II SOR
BZ39-013	0.015	0.073
BZ39-007	0.016	0.078
BZ39-008	0.012	0.059
BZ39-009	0.025	0.124
BZ39-010	0.012	0.060
BZ38-A08	0.001	0.004
BZ39-014	0.015	0.074
BZ39-016	0.017	0.085
BZ39-017	0.017	0.081
BZ39-018	0.022	0.106
BZ39-011	0.019	0.095
BZ38-002	0.030	0.145
BZ38-003	0.001	0.004
BZ38-004	0.002	0.008
BZ38-005	0.003	0.013
BZ38-007	0.015	0.075
BZ39-006	0.022	0.111
BZ38-009	0.002	0.008
BZ38-012	0.023	0.113
BZ38-013	0.021	0.100
BZ38-006	0.001	0.004
CA39-007	0.015	0.074
CA39-001	0.002	0.008
CA39-002	0.003	0.013
CA39-003	0.009	0.045
CA39-004	0.022	0.107
CA39-008	0.008	0.037
CA39-010	0.019	0.093
CA39-011	0.012	0.059
CA39-013	0.002	0.008
CA39-005	0.017	0.084
BZ39-031	0.006	0.032
CA38-006	0.014	0.069
BZ39-024	0.002	0.009
BZ39-025	0.002	0.008
BZ39-030	0.008	0.037
BZ39-032	0.004	0.019
CA38-000	0.032	0.158
BZ39-029	0.008	0.039
CA38-001	0.016	0.081
CA38-005	0.008	0.040
CA38-003	0.018	0.089
CA38-004	0.021	0.101
CA38-002	0.016	0.080

Table 9 Radionuclide Sum of Ratios for Subsurface Soil

Location	Tier I SOR	Tier II SOR
BZ39-007	0.018	0.087
BZ39-008	0.025	0.124
BZ39-009	0.020	0.097
BZ39-010	0.022	0.109
BZ39-018	0.014	0.068
BZ39-011	0.017	0.081
BZ39-013	0.017	0.081
BZ39-014	0.020	0.097
BZ39-016	0.023	0.111
BZ39-017	0.014	0.071
BZ38-007	0.026	0.126
BZ38-002	0.020	0.099
BZ38-003	0.002	0.008
BZ38-004	0.002	0.008
BZ38-005	0.002	0.008
BZ39-006	0.025	0.124
CA39-013	0.002	0.008
BZ38-010	0.004	0.021
BZ38-011	0.004	0.021
BZ38-012	0.011	0.051
BZ38-013	0.019	0.092
BZ38-009	0.001	0.004
CA39-001	0.003	0.013
CA39-002	0.002	0.008
CA39-003	0.016	0.079
CA39-004	0.011	0.054
CA38-006	0.009	0.046
CA39-005	0.015	0.072
CA39-007	0.021	0.102
CA39-010	0.012	0.059
CA39-011	0.019	0.093
BZ39-020	0.005	0.025
BZ38-008	0.002	0.008
BZ39-021	0.004	0.021
BZ39-022	0.003	0.013
CA39-008	0.017	0.082
CA38-000	0.012	0.058
CA38-002	0.020	0.099
CA38-003	0.021	0.104
CA38-004	0.015	0.072
CA38-005	0.015	0.072
CA38-001	0.012	0.061

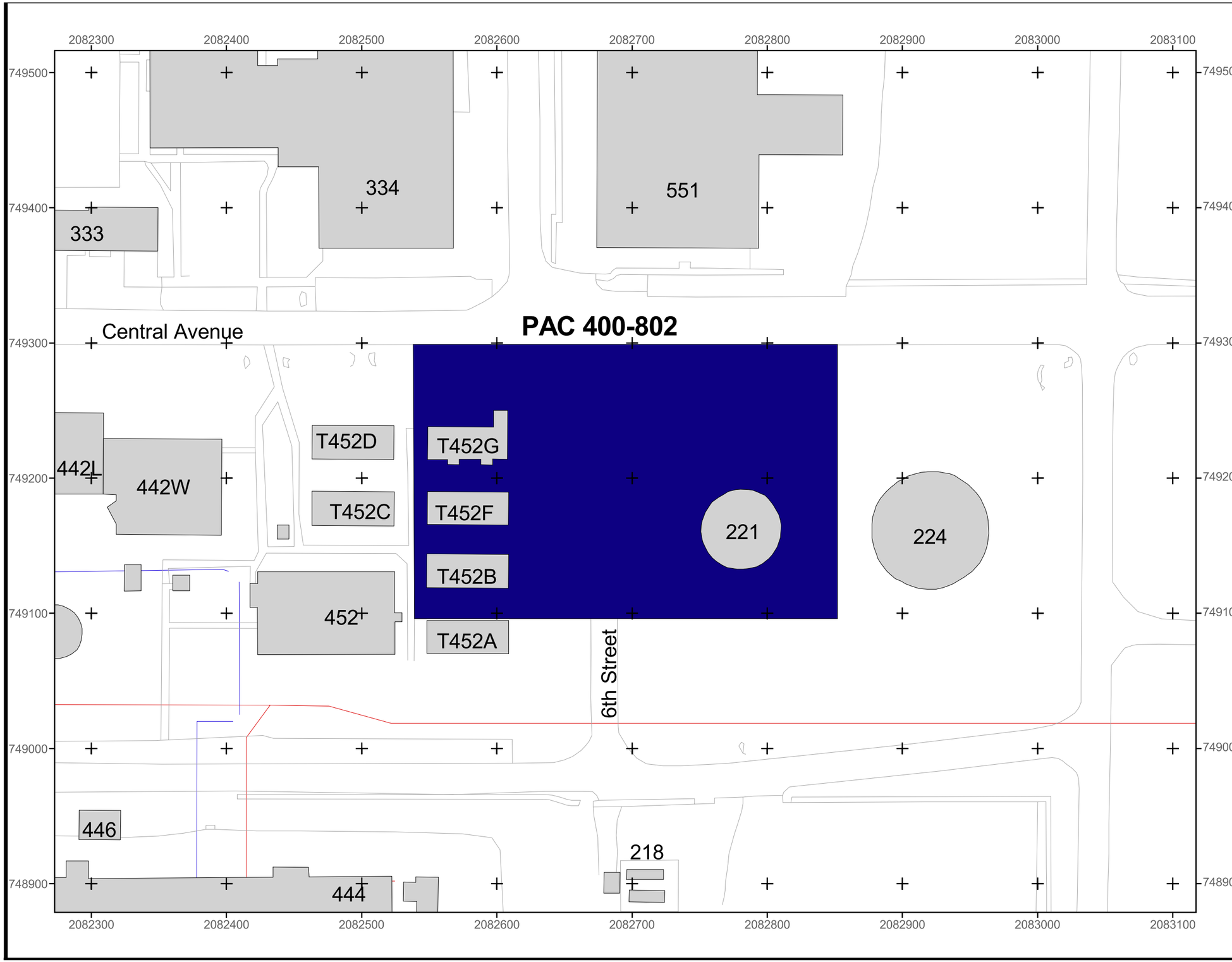

Figure 9
IHSS Group 600-2
Area of Concern

KEY

- Area of Concern
- Paved Roads
- Building/Structure
- NPWL
- OPWL

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N
W E
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50 0 50 Feet

Scale = 1: 850

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: Feb. 2003

RADMS

Prepared for:

KAISER•HILL COMPANY

File: W:\Projects\Fy2003\600-2\600-2_jb.apr

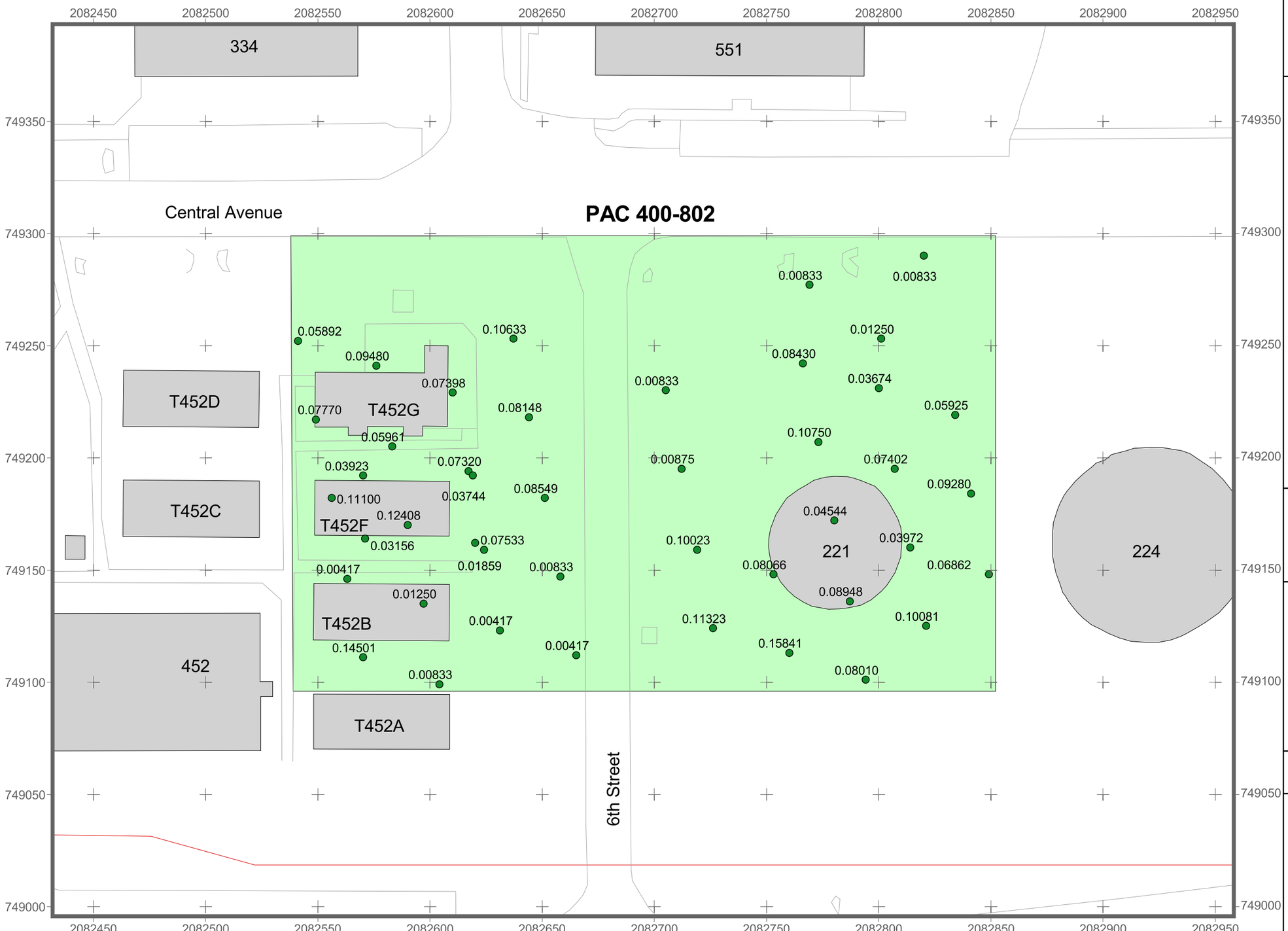

Figure 10
IHSS Group 600-2
Surface Soil Characterization
Samples RFCA Tier II
Sum of Ratios for Radionuclides

KEY

- PAC
- Building/Structure
- Characterization Sampling Locations
- Paved Roads
- OPWL
- NPWL

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N W E S

20 0 20 40 60 Feet

Scale = 1: 530

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: June 2003

RADMS

Prepared for:

KAISER-HILL COMPANY

File: W:\Projects\Fy2003\600-2\600-2_jb_close.apr

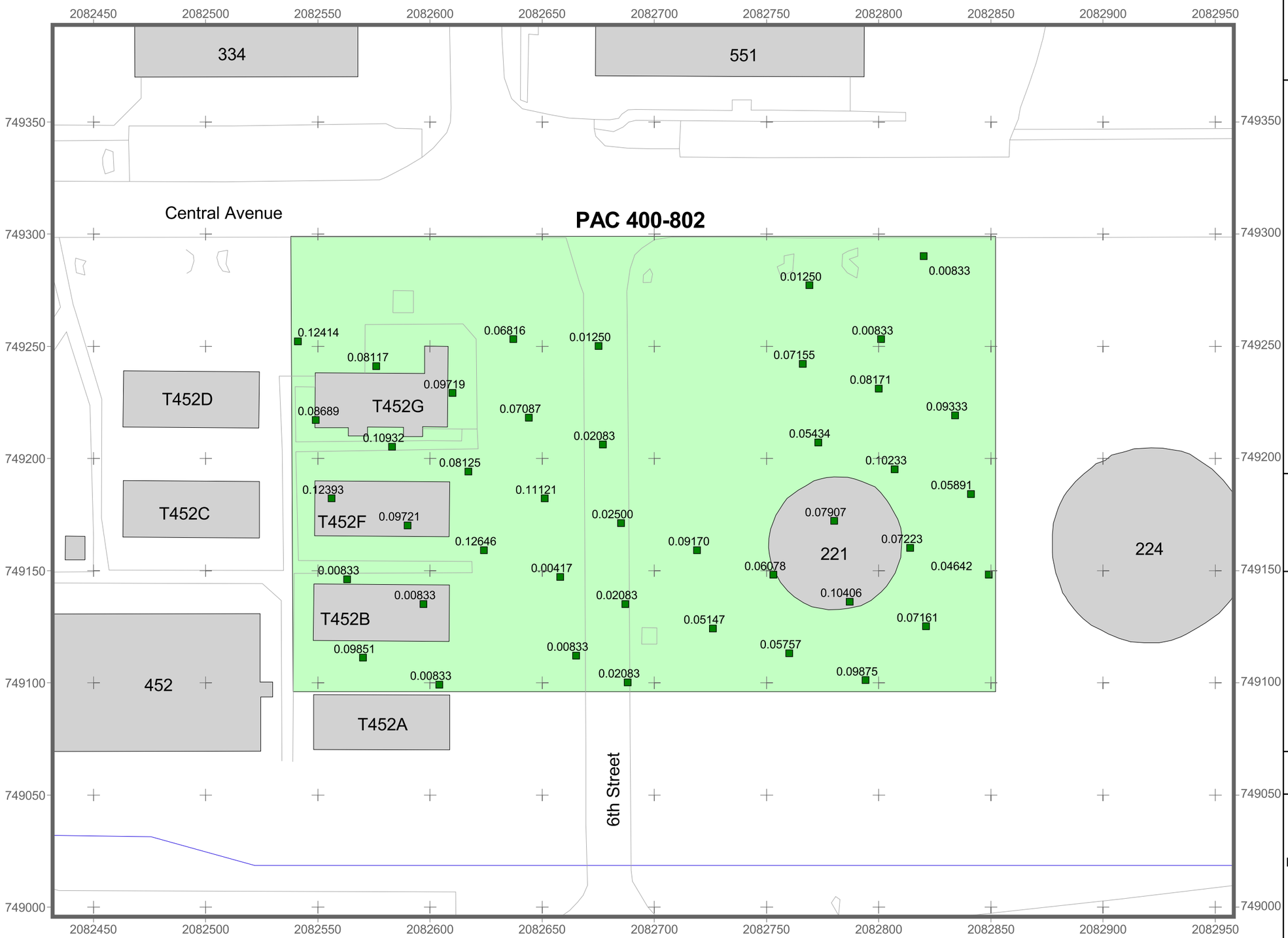

Figure 11
IHSS Group 600-2
Subsurface Soil Characterization
Samples RFCA Tier II
Sum of Ratios for Radionuclides

KEY

- PAC
- Building/Structure
- Characterization Sampling Locations
- Paved Roads
- OPWL
- NPWL

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4.0 ACCELERATED ACTION

Accelerated action objectives were developed and described in ER RSOP Notification #02-07 (DOE 2002c). The accelerated action objectives for IHSS Group 600-2 included the following:

- Remove the concrete slabs (if not removed by Remediation, Industrial D& D [Decontamination and Decommissioning], and Site Services (RISS) and recycle in accordance with the RSOP for Recycling Concrete (DOE 1999), or dispose of;
- Remove sanitary sewer drains (if not removed by RISS);
- Remove structures and piping within 3 feet of current grade (if not removed by RISS Facility D&D);
- Remove soil contaminated above RFCA Tier I ALs (if necessary);
- Remove contaminated soil to below RFCA Tier I ALs if indicated through the stewardship evaluation; and
- Collect confirmation samples (if necessary) in accordance with the IASAP (DOE 2001).

All removal activities were completed by RISS D&D in accordance with the RSOP for Facility Component Removal, Size Reduction, and Decontamination Activities (DOE 2002e) and the RSOP for Facility Disposition (DOE 2000b). D&D activities included the removal of Trailers T452G, T452F, T452B, and T452A. Sanitary sewer lines were not connected to these trailers. There were no remaining building features after the removal activities were completed.

The ER Program's involvement in the project was limited to characterization sampling in accordance with IASAP Addenda #IA-02-05 and IA#-02-06. Sampling activities for IA SAP Addendum #IA-02-05 were conducted beginning June 11, 2002 and concluding on September 16, 2002 and sampling activities for IA SAP #IA-02-06 were conducted beginning July 17, 2002 and concluding on August 21, 2002. No contamination above RFCA Tier I ALs was found and no further consultation with the regulatory agencies resulted in the need to remove surface or subsurface soils. Project photographs are provided in Appendix B.

5.0 ACCELERATED ACTION GOALS

The ER RSOP Notification #02-07 (DOE 2002c) accelerated action project objectives were achieved through the following:

- The concrete slabs were removed by RISS D&D and disposed or dispositioned in accordance with the RSOP for Recycling Concrete (DOE 1999).
- Structures and piping within 3 feet of current grade were removed by RISS D&D.
- No surface or subsurface soil was found to contain contaminant concentrations greater than the RFCA Tier I ALs; therefore, no soil was removed from the area.

Removal activities were consistent with and contributed to the ER RSOP overall long-term remedial action objectives (RAOs) for RFETS soil as follows:

- RAO 1: Provide a remedy consistent with the RFETS goal of protection of human health and the environment. Removal of the concrete slabs contributed to the protection of human health and the environment because potential sources of contamination have been removed.

- RAO 2: Provide a remedy that minimizes the need for long-term maintenance and institutional or engineering controls. Removal of the concrete slabs minimizes the need for long-term maintenance and institutional or engineering controls because potential sources of contamination have been removed.

- RAO 3: Minimize the spread of contaminants during implementation of accelerated actions. Best management practices (BMPs) were used to prevent the spread of contaminants during the accelerated action. Air monitoring data during the accelerated action did not indicate any exceedances.

6.0 SUBSURFACE SOIL RISK SCREEN

The Subsurface Soil Risk Screen (SSRS) follows the steps identified in Figure 3 in Attachment 5 of the proposed RFCA Modification (DOE, et al. 2002f):

Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 WRW Soil Action Levels?

Yes, all COCs are below WRW ALs. (Screens 2 and 3 are bypassed)

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

Migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by PAC 400-802. Contaminant migration via erosion is unlikely because this IHSS Group is located in a flat-lying area not prone to landslides or erosion (Figure 1, proposed RFCA Modification [DOE et al. 2002f]).

Groundwater flow in this area is to the northeast towards South Walnut Creek approximately 3,000 feet away. Groundwater monitoring results from nearby well 85202, approximately70 feet to the east, do not indicate concentrations of analytes at concentrations greater than RFCA groundwater Tier I ALs. Results from this well indicate that cis-1,2-dichloroethene, tetrachloroethene, vinyl chloride and trichloroethene are greater than RFCA Tier II groundwater ALs, but less than Tier I groundwater ALs as shown in Table 10.

Table 10
IHSS Group 600-2 Groundwater Monitoring Results

Analyte	Result ug/L	Tier I AL ug/L	Tier II AL ug/L
Cis-1,2-dichloroethene	160	7000	70
Tetrachloroethene	78	500	5
Vinyl chloride	16	200	2
Trichloroethene	35	500	5

Further groundwater evaluation will be part of the groundwater plume remedial decision and future sitewide evaluation.

Screen 5 – Are COC concentrations below Table 3 Action Levels for Ecological Receptors?

Yes, all COC concentrations are below the proposed ALs for Ecological Receptors (DOE, et al 2002).

7.0 STEWARDSHIP ANALYSIS

7.1 Current Site Conditions

Accelerated actions at IHSS Group 600-2 consisted of the removal of the concrete slabs beneath Trailers T452F and T452G and the associated asphalt-paved walkways (refer to Figure 9). Based on the accelerated action, the following conditions exist at IHSS Group 600-2:

- Potential sources of contamination that existed at IHSS Group 600-2 (slabs beneath Trailers T452F and T452G) were removed.
- Surface and subsurface contaminant concentrations in soil are greater than background means plus two standard deviations or DLs/MDLs throughout the IHSS Group.
- The site has been covered with approximately 6 inches of soil and revegetated.

No contamination was found above RFCA Tier I or WRW ALs under the removed concrete slabs or asphalt-paved walkways or in the areas sampled prior to the accelerated action.

7.2 Near-Term Management Recommendations

Because residual contaminant concentrations are low and potential contaminant sources were removed, mitigated, or found not to have existed, no specific near-term management techniques are required. Potential contaminant sources and pathways have been removed. Contaminant concentrations in soil remaining at IHSS Group 600-2 do not trigger any further accelerated action. Near-term recommendations include the following:

- Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process.
- Fencing and signs restricting access will be posted to minimize disturbance to newly-revegetated areas.
- Site access and security controls and the Soil Disturbance Permit process will remain in place pending implementation of long-term controls.

7.3 Long Term Stewardship Recommendation

Based on remaining environmental conditions at IHSS Group 600-2, no specific long-term stewardship activities are recommended for IHSS Group 600-2 beyond the generally applicable Site requirements that may be imposed on this area in the future, which are dependent upon the final remedy selected. Institutional controls that will be used as appropriate for this area include the following:

- Prohibitions on construction of buildings in the IA;
- Restrictions on excavation or other soil disturbance; and
- Prohibitions on groundwater pumping in the area of IHSS Group 600-2.

No specific engineering controls or environmental monitoring are recommended as a result of the conditions remaining in IHSS Group 600-2. In addition, no specific institutional or physical controls, such as fences, are recommended as a result of the conditions remaining at IHSS Group 600-2.

This Closeout Report and associated documentation will be retained as part of the Rocky Flats Administrative Record (AR). These specific long-term stewardship recommendations will also be summarized in the Rocky Flats Long-Term Stewardship Strategy.

IHSS Group 600-2 will be evaluated as part of the Sitewide CRA RCRA RFI/RI and CMS/FS that will be conducted for the Site. The need for and extent of any, more general, long-term stewardship activities will also be analyzed in the RFI/RI and CMS/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for Rocky Flats will ultimately be contained in the CAD/ROD, in any post-closure Colorado Hazardous Waste Act permit that may be required, and in any post-RFCA agreement.

8.0 POST-ACCELERATED ACTION CONDITIONS

Residual contamination concentrations greater than background mean plus two standard deviations or DL/RL at IHSS Group 600-2 are presented in Table 11 and shown on Figures 12 and 13.

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-029	Tin	surface soil	2.5	0.41	N/A	1000000	1000000	mg/kg
BZ39-029	Antimony	surface soil	0.83	0.46	N/A	818	818	mg/kg
BZ39-029	Molybdenum	surface soil	0.41	0.14	N/A	10200	10200	mg/kg
BZ39-029	Silver	surface soil	0.54	0.059	N/A	10200	10200	mg/kg
BZ39-030	Molybdenum	surface soil	0.41	0.13	N/A	10200	10200	mg/kg
BZ39-030	Tin	surface soil	2.7	0.39	N/A	1000000	1000000	mg/kg
BZ39-031	Tin	surface soil	2.9	0.42	N/A	1000000	1000000	mg/kg
BZ39-031	Antimony	surface soil	0.48	0.46	N/A	818	818	mg/kg
BZ39-031	Selenium	surface soil	1.6	0.48	1.22	10200	10200	mg/kg
BZ39-032	Tin	surface soil	2.6	0.4	N/A	1000000	1000000	mg/kg
BZ39-032	Molybdenum	surface soil	0.18	0.14	N/A	10200	10200	mg/kg
CA38-005	Tin	surface soil	2.1	0.4	N/A	1000000	1000000	mg/kg
CA39-003	Tin	surface soil	2.1	0.4	N/A	1000000	1000000	mg/kg
CA39-003	Antimony	surface soil	0.45	0.44	N/A	818	818	mg/kg
BZ38-007	Fluorene	surface soil	99	82	N/A	81800000	81800000	ug/kg
BZ38-007	Chrysene	surface soil	240	57	N/A	78400000	784000	ug/kg
BZ38-007	Indeno(1,2,3-Cd)Pyrene	surface soil	150	52	N/A	784000	7840	ug/kg
BZ38-007	Naphthalene	surface soil	83	75	N/A	81800000	81800000	ug/kg
BZ38-007	Benzo(B)Fluoranthene	surface soil	180	110	N/A	784000	7840	ug/kg
BZ38-007	Benzo(K)Fluoranthene	surface soil	200	100	N/A	7840000	78400	ug/kg
BZ38-007	Anthracene	surface soil	110	84	N/A	613000000	613000000	ug/kg
BZ38-007	Benzo(A)Pyrene	surface soil	230	100	N/A	78400	784	ug/kg
BZ38-007	Acenaphthene	surface soil	120	50	N/A	123000000	123000000	ug/kg
BZ38-007	Benzo(A)Anthracene	surface soil	220	42	N/A	784000	7840	ug/kg
BZ39-008	Pyrene	surface soil	44	42	N/A	61300000	61300000	ug/kg
BZ39-011	Aroclor-1260	surface soil	22	5.2	N/A	286000	2860	ug/kg
BZ39-011	Pyrene	surface soil	64	43	N/A	61300000	61300000	ug/kg
BZ39-018	Benzo(A)Pyrene	surface soil	120	98	N/A	78400	784	ug/kg
BZ39-018	Benzo(K)Fluoranthene	surface soil	100	97	N/A	7840000	78400	ug/kg
BZ39-018	Fluoranthene	surface soil	220	87	N/A	81800000	81800000	ug/kg
BZ39-018	Benzo(A)Anthracene	surface soil	100	41	N/A	784000	7840	ug/kg
BZ39-018	Chrysene	surface soil	120	55	N/A	78400000	784000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-018	Pyrene	surface soil	240	42	N/A	61300000	61300000	ug/kg
BZ39-018	Indeno(1,2,3-Cd)Pyrene	surface soil	74	50	N/A	784000	7840	ug/kg
BZ39-006	Fluoranthene	surface soil	130	88	N/A	81800000	81800000	ug/kg
BZ39-006	Pyrene	surface soil	110	42	N/A	61300000	61300000	ug/kg
BZ39-006	Benzo(A)Anthracene	surface soil	48	41	N/A	784000	7840	ug/kg
BZ39-007	Aroclor-1260	surface soil	12	5	N/A	286000	2860	ug/kg
BZ39-016	Benzo(A)Anthracene	surface soil	96	40	N/A	784000	7840	ug/kg
BZ39-016	Benzo(A)Pyrene	surface soil	98	96	N/A	78400	784	ug/kg
BZ39-016	Indeno(1,2,3-Cd)Pyrene	surface soil	65	49	N/A	784000	7840	ug/kg
BZ39-016	Pyrene	surface soil	220	41	N/A	61300000	61300000	ug/kg
BZ39-016	Fluoranthene	surface soil	250	86	N/A	81800000	81800000	ug/kg
BZ39-016	Chrysene	surface soil	99	55	N/A	78400000	784000	ug/kg
BZ39-010	Aroclor-1260	surface soil	6.5	5.2	N/A	286000	2860	ug/kg
CA39-004	Bis(2-Ethylhexyl)Phthalate	surface soil	200	71	N/A	40900000	409000	ug/kg
BZ39-017	Fluoranthene	surface soil	160	86	N/A	81800000	81800000	ug/kg
BZ39-017	Chrysene	surface soil	69	54	N/A	78400000	784000	ug/kg
BZ39-017	Pyrene	surface soil	160	41	N/A	61300000	61300000	ug/kg
BZ39-017	Benzo(A)Anthracene	surface soil	64	40	N/A	784000	7840	ug/kg
CA38-001	Pyrene	surface soil	140	42	N/A	61300000	61300000	ug/kg
CA38-001	Chrysene	surface soil	65	55	N/A	78400000	784000	ug/kg
CA38-001	Fluoranthene	surface soil	130	88	N/A	81800000	81800000	ug/kg
CA38-001	Benzo(A)Anthracene	surface soil	66	41	N/A	784000	7840	ug/kg
CA38-003	Pyrene	surface soil	150	41	N/A	61300000	61300000	ug/kg
CA38-003	Chrysene	surface soil	73	54	N/A	78400000	784000	ug/kg
CA38-003	Fluoranthene	surface soil	150	86	N/A	81800000	81800000	ug/kg
CA38-003	Benzo(A)Anthracene	surface soil	83	40	N/A	784000	7840	ug/kg
CA38-004	Bis(2-Ethylhexyl)Phthalate	surface soil	170	71	N/A	40900000	409000	ug/kg
CA38-004	Pyrene	surface soil	120	41	N/A	61300000	61300000	ug/kg
CA38-004	Fluoranthene	surface soil	130	87	N/A	81800000	81800000	ug/kg
CA38-004	Benzo(A)Anthracene	surface soil	62	40	N/A	784000	7840	ug/kg
CA38-006	Bis(2-Ethylhexyl)Phthalate	surface soil	170	71	N/A	40900000	409000	ug/kg
CA38-006	Pyrene	surface soil	100	41	N/A	61300000	61300000	ug/kg
CA38-006	Fluoranthene	surface soil	100	86	N/A	81800000	81800000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-006	Benzo(A)Anthracene	surface soil	49	40	N/A	784000	7840	ug/kg
CA39-004	Pyrene	surface soil	78	41	N/A	61300000	61300000	ug/kg
CA39-007	Benzo(A)Anthracene	surface soil	69	41	N/A	784000	7840	ug/kg
CA39-007	Chrysene	surface soil	86	55	N/A	78400000	784000	ug/kg
CA39-007	Fluoranthene	surface soil	130	88	N/A	81800000	81800000	ug/kg
CA39-007	Pyrene	surface soil	140	42	N/A	61300000	61300000	ug/kg
BZ38-008	Benzo(A)Anthracene	surface soil	170	40	N/A	784000	7840	ug/kg
BZ38-008	Chrysene	surface soil	200	54	N/A	78400000	784000	ug/kg
BZ38-008	Indeno(1,2,3-Cd)Pyrene	surface soil	120	49	N/A	784000	7840	ug/kg
BZ38-008	Benzo(K)Fluoranthene	surface soil	160	95	N/A	7840000	78400	ug/kg
BZ38-008	Benzo(B)Fluoranthene	surface soil	160	100	N/A	784000	7840	ug/kg
BZ38-008	Benzo(A)Pyrene	surface soil	170	96	N/A	78400	784	ug/kg
BZ38-009	Fluoranthene	surface soil	150	87	N/A	81800000	81800000	ug/kg
BZ38-009	Pyrene	surface soil	170	41	N/A	61300000	61300000	ug/kg
BZ38-009	Chrysene	surface soil	91	55	N/A	78400000	784000	ug/kg
BZ38-009	Benzo(A)Anthracene	surface soil	89	40	N/A	784000	7840	ug/kg
BZ39-030	Lithium	surface soil	11.9	0.18	11.55	40900	40900	mg/kg
BZ39-032	Lithium	surface soil	11.8	0.18	11.55	40900	40900	mg/kg
BZ38-007	Fluoranthene	surface soil	640	90	N/A	81800000	81800000	ug/kg
BZ38-007	Pyrene	surface soil	640	43	N/A	61300000	61300000	ug/kg
BZ39-008	2,4,6-Trichlorophenol	surface soil	950	52	N/A	52000000	520000	ug/kg
BZ39-008	2,4,5-Trichlorophenol	surface soil	1100	78	N/A	204000000	204000000	ug/kg
BZ39-014	Aroclor-1254	surface soil	73	4.9	N/A	286000	2860	ug/kg
CA39-007	Bis(2-Ethylhexyl)Phthalate	surface soil	750	72	N/A	40900000	409000	ug/kg
BZ38-008	Fluoranthene	surface soil	420	86	N/A	81800000	81800000	ug/kg
BZ38-008	Pyrene	surface soil	410	41	N/A	61300000	61300000	ug/kg
BZ39-029	Zinc	surface soil	76.4	0.22	73.76	613000	613000	mg/kg
BZ39-030	Copper	surface soil	23.8	0.16	18.06	75600	75600	mg/kg
BZ39-031	Zinc	surface soil	161	0.22	73.76	613000	613000	mg/kg
BZ39-032	Copper	surface soil	26.9	0.16	18.06	75600	75600	mg/kg
BZ39-032	Zinc	surface soil	110	0.21	73.76	613000	613000	mg/kg
BZ39-032	Vanadium	surface soil	45.9	0.25	45.59	14300	14300	mg/kg
BZ39-032	Iron	surface soil	25400	1.5	18037	613000	613000	mg/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-032	Manganese	surface soil	561	0.034	365.08	66800	66800	mg/kg
CA38-005	Fluoranthene	surface soil	200	88	N/A	81800000	81800000	ug/kg
CA38-005	Bis(2-Ethylhexyl)Phthalate	surface soil	290	72	N/A	40900000	409000	ug/kg
CA38-005	Chrysene	surface soil	88	56	N/A	78400000	784000	ug/kg
CA38-005	Pyrene	surface soil	190	42	N/A	61300000	61300000	ug/kg
CA39-003	Chrysene	surface soil	62	56	N/A	78400000	784000	ug/kg
CA39-003	Benzo(A)Anthracene	surface soil	57	41	N/A	784000	7840	ug/kg
CA39-002	Pyrene	surface soil	84	42	N/A	61300000	61300000	ug/kg
CA39-002	Chrysene	surface soil	57	56	N/A	78400000	784000	ug/kg
CA39-002	Benzo(A)Anthracene	surface soil	48	41	N/A	784000	7840	ug/kg
CA39-002	Bis(2-Ethylhexyl)Phthalate	surface soil	160	72	N/A	40900000	409000	ug/kg
CA39-005	Pyrene	surface soil	85	41	N/A	61300000	61300000	ug/kg
CA39-005	Benzo(A)Anthracene	surface soil	44	40	N/A	784000	7840	ug/kg
CA39-011	Chrysene	surface soil	74	55	N/A	78400000	784000	ug/kg
CA39-011	Benzo(A)Anthracene	surface soil	57	40	N/A	784000	7840	ug/kg
CA39-011	Pyrene	surface soil	110	41	N/A	61300000	61300000	ug/kg
BZ38-012	Pyrene	surface soil	72	42	N/A	61300000	61300000	ug/kg
BZ38-013	Indeno(1,2,3-Cd)Pyrene	surface soil	56	50	N/A	784000	7840	ug/kg
BZ38-013	Pyrene	surface soil	180	42	N/A	61300000	61300000	ug/kg
BZ38-013	Benzo(A)Anthracene	surface soil	84	41	N/A	784000	7840	ug/kg
BZ38-013	Fluoranthene	surface soil	200	88	N/A	81800000	81800000	ug/kg
BZ38-013	Chrysene	surface soil	92	56	N/A	78400000	784000	ug/kg
CA38-000	Pyrene	surface soil	59	42	N/A	61300000	61300000	ug/kg
CA38-002	Fluoranthene	surface soil	150	87	N/A	81800000	81800000	ug/kg
CA38-002	Pyrene	surface soil	140	42	N/A	61300000	61300000	ug/kg
CA38-002	Benzo(A)Anthracene	surface soil	57	40	N/A	784000	7840	ug/kg
CA38-002	Chrysene	surface soil	66	55	N/A	78400000	784000	ug/kg
CA39-001	Chrysene	surface soil	65	57	N/A	78400000	784000	ug/kg
CA39-001	Bis(2-Ethylhexyl)Phthalate	surface soil	160	73	N/A	40900000	409000	ug/kg
CA39-001	Fluoranthene	surface soil	130	89	N/A	81800000	81800000	ug/kg
CA39-001	Pyrene	surface soil	120	42	N/A	61300000	61300000	ug/kg
CA39-001	Benzo(A)Anthracene	surface soil	59	41	N/A	784000	7840	ug/kg
BZ38-003	Bis(2-Ethylhexyl)Phthalate	surface soil	96	71	N/A	40900000	409000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-003	Butylbenzylphthalate	surface soil	110	35	N/A	409000000	409000000	ug/kg
BZ38-003	Pyrene	surface soil	57	41	N/A	61300000	61300000	ug/kg
BZ38-A04	Di-N-Octyl Phthalate	surface soil	61	38	N/A	1000000000	40900000	ug/kg
BZ38-A04	Pyrene	surface soil	59	43	N/A	61300000	61300000	ug/kg
BZ38-A04	Bis(2-Ethylhexyl)Phthalate	surface soil	75	74	N/A	40900000	409000	ug/kg
CA39-012	Indeno(1,2,3-Cd)Pyrene	surface soil	230	49	N/A	784000	7840	ug/kg
CA39-012	Benzo(B)Fluoranthene	surface soil	310	100	N/A	784000	7840	ug/kg
CA39-012	Benzo(A)Anthracene	surface soil	330	40	N/A	784000	7840	ug/kg
CA39-012	Anthracene	surface soil	160	80	N/A	613000000	613000000	ug/kg
CA39-012	Acenaphthene	surface soil	160	47	N/A	123000000	123000000	ug/kg
CA39-012	Fluorene	surface soil	130	78	N/A	81800000	81800000	ug/kg
CA39-012	Benzo(K)Fluoranthene	surface soil	310	95	N/A	7840000	78400	ug/kg
CA39-012	Bis(2-Ethylhexyl)Phthalate	surface soil	76	71	N/A	40900000	409000	ug/kg
CA39-012	Naphthalene	surface soil	120	72	N/A	81800000	81800000	ug/kg
CA39-012	Dibenz(A,H)Anthracene	surface soil	100	48	N/A	78400	784	ug/kg
CA39-013	Dibenz(A,H)Anthracene	surface soil	240	49	N/A	78400	784	ug/kg
CA39-013	Anthracene	surface soil	220	80	N/A	613000000	613000000	ug/kg
CA39-013	Bis(2-Ethylhexyl)Phthalate	surface soil	79	71	N/A	40900000	409000	ug/kg
CA39-013	Chrysene	surface soil	190	55	N/A	78400000	784000	ug/kg
CA39-013	Fluorene	surface soil	82	78	N/A	81800000	81800000	ug/kg
CA39-013	Acenaphthene	surface soil	78	47	N/A	123000000	123000000	ug/kg
BZ39-024	Pyrene	surface soil	220	41	N/A	61300000	61300000	ug/kg
BZ39-024	Dibenz(A,H)Anthracene	surface soil	82	49	N/A	78400	784	ug/kg
BZ39-024	Fluoranthene	surface soil	240	87	N/A	81800000	81800000	ug/kg
BZ39-024	Benzo(B)Fluoranthene	surface soil	120	100	N/A	784000	7840	ug/kg
BZ39-024	Benzo(K)Fluoranthene	surface soil	120	96	N/A	7840000	78400	ug/kg
BZ39-024	Indeno(1,2,3-Cd)Pyrene	surface soil	86	50	N/A	784000	7840	ug/kg
BZ39-024	Benzo(A)Pyrene	surface soil	130	98	N/A	78400	784	ug/kg
BZ39-024	Benzo(A)Anthracene	surface soil	100	40	N/A	784000	7840	ug/kg
BZ39-024	Chrysene	surface soil	180	55	N/A	78400000	784000	ug/kg
BZ39-025	Pyrene	surface soil	130	41	N/A	61300000	61300000	ug/kg
BZ39-025	Indeno(1,2,3-Cd)Pyrene	surface soil	54	49	N/A	784000	7840	ug/kg
BZ39-025	Chrysene	surface soil	83	54	N/A	78400000	784000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-025	Benzo(A)Anthracene	surface soil	66	40	N/A	784000	7840	ug/kg
BZ39-025	Fluoranthene	surface soil	160	86	N/A	81800000	81800000	ug/kg
CA38-005	Indeno(1,2,3-Cd)Pyrene	surface soil	62	50	N/A	784000	7840	ug/kg
CA38-005	Benzo(A)Anthracene	surface soil	82	41	N/A	784000	7840	ug/kg
CA39-003	Pyrene	surface soil	120	42	N/A	61300000	61300000	ug/kg
CA39-003	Fluoranthene	surface soil	120	88	N/A	81800000	81800000	ug/kg
CA38-005	Lithium	surface soil	12.1	0.18	11.55	40900	40900	mg/kg
CA39-003	Lithium	surface soil	12.1	0.18	11.55	40900	40900	mg/kg
CA39-003	Molybdenum	surface soil	1.4	0.14	N/A	10200	10200	mg/kg
CA39-008	Bis(2-Ethylhexyl)Phthalate	surface soil	970	71	N/A	40900000	409000	ug/kg
CA39-011	Bis(2-Ethylhexyl)Phthalate	surface soil	4700	71	N/A	40900000	409000	ug/kg
CA39-012	Benzo(A)Pyrene	surface soil	360	96	N/A	78400	784	ug/kg
CA39-012	Chrysene	surface soil	380	54	N/A	78400000	784000	ug/kg
CA39-012	Fluoranthene	surface soil	880	86	N/A	81800000	81800000	ug/kg
CA39-012	Pyrene	surface soil	810	41	N/A	61300000	61300000	ug/kg
CA39-013	Benzo(K)Fluoranthene	surface soil	850	96	N/A	7840000	78400	ug/kg
CA39-013	Benzo(B)Fluoranthene	surface soil	890	100	N/A	784000	7840	ug/kg
CA39-013	Benzo(A)Pyrene	surface soil	940	97	N/A	78400	784	ug/kg
CA39-013	Benzo(A)Anthracene	surface soil	870	40	N/A	784000	7840	ug/kg
CA39-013	Indeno(1,2,3-Cd)Pyrene	surface soil	540	50	N/A	784000	7840	ug/kg
CA39-013	Fluoranthene	surface soil	1800	87	N/A	81800000	81800000	ug/kg
CA39-013	Pyrene	surface soil	1600	41	N/A	61300000	61300000	ug/kg
BZ39-025	Bis(2-Ethylhexyl)Phthalate	surface soil	380	70	N/A	40900000	409000	ug/kg
CA38-005	Aluminum	surface soil	17800	1.3	16902	1000000	1000000	mg/kg
CA39-003	Aluminum	surface soil	17300	1.3	16902	1000000	1000000	mg/kg
CA39-003	Chromium	surface soil	23	0.055	16.99	8720	1020	mg/kg
BZ39-029	Mercury	surface soil	0.15	0.0013	0.13	613	613	mg/kg
BZ39-017	Aroclor-1260	surface soil	120	4.9	N/A	286000	2860	ug/kg
CA39-003	Strontium	surface soil	61.3	0.0063	48.94	1000000	1000000	mg/kg
BZ39-008	Arsenic	surface soil	15	25	10.09	381	3.81	mg/kg-dry
BZ39-008	Nickel	surface soil	53	60	14.91	40900	40900	mg/kg-dry
BZ39-008	Strontium	surface soil	180	250	48.94	1000000	1000000	mg/kg-dry
BZ39-008	Vanadium	surface soil	100	100	45.59	14300	14300	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-008	Copper	surface soil	60	300	18.06	75600	75600	mg/kg-dry
BZ39-008	Chromium	surface soil	43	90	16.99	8720	1020	mg/kg-dry
BZ39-008	Zinc	surface soil	150	300	73.76	613000	613000	mg/kg-dry
BZ39-011	Strontium	surface soil	160	250	48.94	1000000	1000000	mg/kg-dry
BZ39-011	Arsenic	surface soil	16	25	10.09	381	3.81	mg/kg-dry
BZ39-011	Copper	surface soil	68	300	18.06	75600	75600	mg/kg-dry
BZ39-011	Chromium	surface soil	38	90	16.99	8720	1020	mg/kg-dry
BZ39-009	Copper	surface soil	190	300	18.06	75600	75600	mg/kg-dry
BZ39-009	Zinc	surface soil	120	300	73.76	613000	613000	mg/kg-dry
BZ39-009	Nickel	surface soil	46	60	14.91	40900	40900	mg/kg-dry
BZ39-009	Strontium	surface soil	170	250	48.94	1000000	1000000	mg/kg-dry
BZ39-009	Chromium	surface soil	51	90	16.99	8720	1020	mg/kg-dry
BZ39-009	Arsenic	surface soil	18	25	10.09	381	3.81	mg/kg-dry
BZ39-014	Nickel	surface soil	35	60	14.91	40900	40900	mg/kg-dry
BZ39-014	Strontium	surface soil	150	250	48.94	1000000	1000000	mg/kg-dry
BZ39-014	Arsenic	surface soil	15	25	10.09	381	3.81	mg/kg-dry
BZ39-014	Zinc	surface soil	190	300	73.76	613000	613000	mg/kg-dry
BZ39-014	Copper	surface soil	68	300	18.06	75600	75600	mg/kg-dry
BZ39-014	Chromium	surface soil	36	90	16.99	8720	1020	mg/kg-dry
BZ38-007	Cadmium	surface soil	2.9	85	1.61	2040	2040	mg/kg-dry
BZ38-007	Zinc	surface soil	130	300	73.76	613000	613000	mg/kg-dry
BZ38-007	Chromium	surface soil	48	90	16.99	8720	1020	mg/kg-dry
BZ38-007	Nickel	surface soil	43	60	14.91	40900	40900	mg/kg-dry
BZ38-007	Arsenic	surface soil	11	25	10.09	381	3.81	mg/kg-dry
BZ38-007	Copper	surface soil	180	300	18.06	75600	75600	mg/kg-dry
BZ39-017	Arsenic	surface soil	17	25	10.09	381	3.81	mg/kg-dry
BZ39-017	Chromium	surface soil	46	90	16.99	8720	1020	mg/kg-dry
BZ39-017	Nickel	surface soil	33	60	14.91	40900	40900	mg/kg-dry
BZ39-017	Strontium	surface soil	240	250	48.94	1000000	1000000	mg/kg-dry
BZ39-017	Zinc	surface soil	220	300	73.76	613000	613000	mg/kg-dry
BZ39-010	Chromium	surface soil	35	90	16.99	8720	1020	mg/kg-dry
BZ39-010	Copper	surface soil	190	300	18.06	75600	75600	mg/kg-dry
BZ39-010	Nickel	surface soil	46	60	14.91	40900	40900	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-010	Strontium	surface soil	180	250	48.94	1000000	1000000	mg/kg-dry
BZ39-010	Arsenic	surface soil	12	25	10.09	381	3.81	mg/kg-dry
BZ39-010	Zinc	surface soil	130	300	73.76	613000	613000	mg/kg-dry
BZ39-013	Chromium	surface soil	49	90	16.99	8720	1020	mg/kg-dry
BZ39-013	Nickel	surface soil	47	60	14.91	40900	40900	mg/kg-dry
BZ39-013	Arsenic	surface soil	11	25	10.09	381	3.81	mg/kg-dry
BZ39-013	Zinc	surface soil	130	300	73.76	613000	613000	mg/kg-dry
BZ39-013	Copper	surface soil	170	300	18.06	75600	75600	mg/kg-dry
BZ39-006	Chromium	surface soil	35	90	16.99	8720	1020	mg/kg-dry
BZ39-006	Vanadium	surface soil	63	100	45.59	14300	14300	mg/kg-dry
BZ39-006	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
BZ39-006	Nickel	surface soil	32	60	14.91	40900	40900	mg/kg-dry
BZ39-006	Arsenic	surface soil	12	25	10.09	381	3.81	mg/kg-dry
BZ39-006	Strontium	surface soil	190	250	48.94	1000000	1000000	mg/kg-dry
BZ39-006	Copper	surface soil	110	300	18.06	75600	75600	mg/kg-dry
BZ39-016	Zinc	surface soil	140	300	73.76	613000	613000	mg/kg-dry
BZ39-016	Nickel	surface soil	16	60	14.91	40900	40900	mg/kg-dry
BZ39-016	Arsenic	surface soil	20	25	10.09	381	3.81	mg/kg-dry
BZ39-016	Vanadium	surface soil	61	100	45.59	14300	14300	mg/kg-dry
BZ39-016	Copper	surface soil	66	300	18.06	75600	75600	mg/kg-dry
BZ39-016	Chromium	surface soil	36	90	16.99	8720	1020	mg/kg-dry
BZ39-007	Strontium	surface soil	230	250	48.94	1000000	1000000	mg/kg-dry
BZ39-007	Arsenic	surface soil	14	25	10.09	381	3.81	mg/kg-dry
BZ39-007	Nickel	surface soil	32	60	14.91	40900	40900	mg/kg-dry
BZ39-007	Chromium	surface soil	29	90	16.99	8720	1020	mg/kg-dry
BZ39-007	Copper	surface soil	64	300	18.06	75600	75600	mg/kg-dry
BZ39-007	Vanadium	surface soil	91	100	45.59	14300	14300	mg/kg-dry
BZ39-007	Zinc	surface soil	170	300	73.76	613000	613000	mg/kg-dry
BZ39-007	Selenium	surface soil	1.5	20	1.22	10200	10200	mg/kg-dry
CA39-004	Zinc	surface soil	170	300	73.76	613000	613000	mg/kg-dry
CA39-004	Nickel	surface soil	24	60	14.91	40900	40900	mg/kg-dry
CA39-004	Chromium	surface soil	19	90	16.99	8720	1020	mg/kg-dry
CA39-004	Copper	surface soil	62	300	18.06	75600	75600	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-004	Vanadium	surface soil	70	100	45.59	14300	14300	mg/kg-dry
CA39-007	Nickel	surface soil	46	60	14.91	40900	40900	mg/kg-dry
CA39-007	Arsenic	surface soil	13	25	10.09	381	3.81	mg/kg-dry
CA39-007	Zinc	surface soil	280	300	73.76	613000	613000	mg/kg-dry
CA39-007	Vanadium	surface soil	99	100	45.59	14300	14300	mg/kg-dry
CA39-007	Copper	surface soil	67	300	18.06	75600	75600	mg/kg-dry
CA39-007	Chromium	surface soil	42	90	16.99	8720	1020	mg/kg-dry
CA39-007	Strontium	surface soil	210	250	48.94	1000000	1000000	mg/kg-dry
CA39-010	Nickel	surface soil	51	60	14.91	40900	40900	mg/kg-dry
CA39-010	Strontium	surface soil	190	250	48.94	1000000	1000000	mg/kg-dry
CA39-010	Chromium	surface soil	26	90	16.99	8720	1020	mg/kg-dry
CA39-010	Copper	surface soil	79	300	18.06	75600	75600	mg/kg-dry
CA39-010	Arsenic	surface soil	12	25	10.09	381	3.81	mg/kg-dry
CA39-010	Zinc	surface soil	180	300	73.76	613000	613000	mg/kg-dry
CA38-006	Nickel	surface soil	51	60	14.91	40900	40900	mg/kg-dry
CA38-006	Arsenic	surface soil	12	25	10.09	381	3.81	mg/kg-dry
CA38-006	Strontium	surface soil	180	250	48.94	1000000	1000000	mg/kg-dry
CA38-006	Zinc	surface soil	96	300	73.76	613000	613000	mg/kg-dry
CA38-006	Copper	surface soil	62	300	18.06	75600	75600	mg/kg-dry
CA38-006	Chromium	surface soil	50	90	16.99	8720	1020	mg/kg-dry
CA38-004	Nickel	surface soil	51	60	14.91	40900	40900	mg/kg-dry
CA38-004	Strontium	surface soil	220	250	48.94	1000000	1000000	mg/kg-dry
CA38-004	Chromium	surface soil	22	90	16.99	8720	1020	mg/kg-dry
CA38-004	Copper	surface soil	56	300	18.06	75600	75600	mg/kg-dry
CA38-004	Vanadium	surface soil	74	100	45.59	14300	14300	mg/kg-dry
CA38-004	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
CA38-003	Nickel	surface soil	49	60	14.91	40900	40900	mg/kg-dry
CA38-003	Arsenic	surface soil	11	25	10.09	381	3.81	mg/kg-dry
CA38-003	Zinc	surface soil	150	300	73.76	613000	613000	mg/kg-dry
CA38-003	Vanadium	surface soil	93	100	45.59	14300	14300	mg/kg-dry
CA38-003	Copper	surface soil	64	300	18.06	75600	75600	mg/kg-dry
CA38-003	Chromium	surface soil	43	90	16.99	8720	1020	mg/kg-dry
CA38-003	Strontium	surface soil	230	250	48.94	1000000	1000000	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-001	Strontium	surface soil	250	250	48.94	1000000	1000000	mg/kg
CA38-001	Nickel	surface soil	37	60	14.91	40900	40900	mg/kg
CA38-001	Chromium	surface soil	34	90	16.99	8720	1020	mg/kg
CA38-001	Copper	surface soil	56	300	18.06	75600	75600	mg/kg
CA38-001	Vanadium	surface soil	75	100	45.59	14300	14300	mg/kg
CA38-001	Zinc	surface soil	120	300	73.76	613000	613000	mg/kg
CA39-002	Nickel	surface soil	32	60	14.91	40900	40900	mg/kg-dry
CA39-002	Zinc	surface soil	130	300	73.76	613000	613000	mg/kg-dry
CA39-002	Vanadium	surface soil	81	100	45.59	14300	14300	mg/kg-dry
CA39-002	Copper	surface soil	57	300	18.06	75600	75600	mg/kg-dry
CA39-002	Chromium	surface soil	30	90	16.99	8720	1020	mg/kg-dry
CA39-005	Strontium	surface soil	200	250	48.94	1000000	1000000	mg/kg-dry
CA39-005	Nickel	surface soil	30	60	14.91	40900	40900	mg/kg-dry
CA39-005	Zinc	surface soil	98	300	73.76	613000	613000	mg/kg-dry
CA39-005	Vanadium	surface soil	58	100	45.59	14300	14300	mg/kg-dry
CA39-005	Copper	surface soil	49	300	18.06	75600	75600	mg/kg-dry
CA39-005	Chromium	surface soil	28	90	16.99	8720	1020	mg/kg-dry
CA39-008	Strontium	surface soil	210	250	48.94	1000000	1000000	mg/kg-dry
CA39-008	Nickel	surface soil	35	60	14.91	40900	40900	mg/kg-dry
CA39-008	Vanadium	surface soil	57	100	45.59	14300	14300	mg/kg-dry
CA39-008	Copper	surface soil	43	300	18.06	75600	75600	mg/kg-dry
CA39-008	Chromium	surface soil	23	90	16.99	8720	1020	mg/kg-dry
CA39-011	Nickel	surface soil	33	60	14.91	40900	40900	mg/kg-dry
CA39-011	Chromium	surface soil	34	90	16.99	8720	1020	mg/kg-dry
CA39-011	Strontium	surface soil	170	250	48.94	1000000	1000000	mg/kg-dry
CA39-011	Copper	surface soil	46	300	18.06	75600	75600	mg/kg-dry
CA39-011	Vanadium	surface soil	77	100	45.59	14300	14300	mg/kg-dry
CA39-001	Copper	surface soil	69	300	18.06	75600	75600	mg/kg-dry
CA39-001	Chromium	surface soil	27	90	16.99	8720	1020	mg/kg-dry
CA39-001	Nickel	surface soil	25	60	14.91	40900	40900	mg/kg-dry
CA39-001	Zinc	surface soil	160	300	73.76	613000	613000	mg/kg-dry
CA39-001	Vanadium	surface soil	47	100	45.59	14300	14300	mg/kg-dry
BZ38-013	Nickel	surface soil	38	60	14.91	40900	40900	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-013	Arsenic	surface soil	12	25	10.09	381	3.81	mg/kg-dry
BZ38-013	Strontium	surface soil	210	250	48.94	1000000	1000000	mg/kg-dry
BZ38-013	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
BZ38-013	Vanadium	surface soil	96	100	45.59	14300	14300	mg/kg-dry
BZ38-013	Copper	surface soil	71	300	18.06	75600	75600	mg/kg-dry
BZ38-013	Chromium	surface soil	41	90	16.99	8720	1020	mg/kg-dry
BZ38-012	Strontium	surface soil	220	250	48.94	1000000	1000000	mg/kg-dry
BZ38-012	Nickel	surface soil	36	60	14.91	40900	40900	mg/kg-dry
BZ38-012	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
BZ38-012	Chromium	surface soil	39	90	16.99	8720	1020	mg/kg-dry
BZ38-012	Copper	surface soil	52	300	18.06	75600	75600	mg/kg-dry
BZ38-012	Vanadium	surface soil	77	100	45.59	14300	14300	mg/kg-dry
BZ38-012	Cadmium	surface soil	3.8	85	1.61	2040	2040	mg/kg-dry
CA38-000	Strontium	surface soil	190	250	48.94	1000000	1000000	mg/kg-dry
CA38-000	Nickel	surface soil	45	60	14.91	40900	40900	mg/kg-dry
CA38-000	Arsenic	surface soil	11	25	10.09	381	3.81	mg/kg-dry
CA38-000	Chromium	surface soil	53	90	16.99	8720	1020	mg/kg-dry
CA38-000	Copper	surface soil	53	300	18.06	75600	75600	mg/kg-dry
CA38-000	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
CA38-002	Nickel	surface soil	38	60	14.91	40900	40900	mg/kg-dry
CA38-002	Strontium	surface soil	200	250	48.94	1000000	1000000	mg/kg-dry
CA38-002	Chromium	surface soil	59	90	16.99	8720	1020	mg/kg-dry
CA38-002	Copper	surface soil	58	300	18.06	75600	75600	mg/kg-dry
CA38-002	Vanadium	surface soil	75	100	45.59	14300	14300	mg/kg-dry
CA38-002	Zinc	surface soil	100	300	73.76	613000	613000	mg/kg-dry
BZ38-009	Copper	surface soil	47	300	18.06	75600	75600	mg/kg-dry
BZ38-009	Nickel	surface soil	41	60	14.91	40900	40900	mg/kg-dry
BZ38-009	Chromium	surface soil	51	90	16.99	8720	1020	mg/kg-dry
BZ38-009	Arsenic	surface soil	16	25	10.09	381	3.81	mg/kg-dry
BZ38-009	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
BZ38-A08	Zinc	surface soil	100	300	73.76	613000	613000	mg/kg-dry
BZ38-A08	Nickel	surface soil	50	60	14.91	40900	40900	mg/kg-dry
BZ38-A08	Chromium	surface soil	63	90	16.99	8720	1020	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-A08	Vanadium	surface soil	92	100	45.59	14300	14300	mg/kg-dry
BZ38-A08	Copper	surface soil	58	300	18.06	75600	75600	mg/kg-dry
BZ38-A08	Strontium	surface soil	210	250	48.94	1000000	1000000	mg/kg-dry
BZ38-006	Strontium	surface soil	240	250	48.94	1000000	1000000	mg/kg-dry
BZ38-006	Arsenic	surface soil	11	25	10.09	381	3.81	mg/kg-dry
BZ38-006	Copper	surface soil	36	300	18.06	75600	75600	mg/kg-dry
BZ38-006	Chromium	surface soil	19	90	16.99	8720	1020	mg/kg-dry
BZ38-005	Chromium	surface soil	30	90	16.99	8720	1020	mg/kg-dry
BZ38-005	Arsenic	surface soil	12	25	10.09	381	3.81	mg/kg-dry
BZ38-005	Nickel	surface soil	35	60	14.91	40900	40900	mg/kg-dry
BZ38-005	Vanadium	surface soil	87	100	45.59	14300	14300	mg/kg-dry
BZ38-005	Copper	surface soil	78	300	18.06	75600	75600	mg/kg-dry
BZ38-005	Zinc	surface soil	110	300	73.76	613000	613000	mg/kg-dry
BZ38-005	Strontium	surface soil	210	250	48.94	1000000	1000000	mg/kg-dry
BZ38-002	Nickel	surface soil	33	60	14.91	40900	40900	mg/kg-dry
BZ38-002	Strontium	surface soil	130	250	48.94	1000000	1000000	mg/kg-dry
BZ38-002	Chromium	surface soil	33	90	16.99	8720	1020	mg/kg-dry
BZ38-002	Copper	surface soil	32	300	18.06	75600	75600	mg/kg-dry
BZ38-003	Nickel	surface soil	30	60	14.91	40900	40900	mg/kg-dry
BZ38-003	Strontium	surface soil	170	250	48.94	1000000	1000000	mg/kg-dry
BZ38-003	Zinc	surface soil	79	300	73.76	613000	613000	mg/kg-dry
BZ38-003	Chromium	surface soil	40	90	16.99	8720	1020	mg/kg-dry
BZ38-003	Vanadium	surface soil	97	100	45.59	14300	14300	mg/kg-dry
BZ38-003	Copper	surface soil	47	300	18.06	75600	75600	mg/kg-dry
BZ38-004	Nickel	surface soil	31	60	14.91	40900	40900	mg/kg-dry
BZ38-004	Arsenic	surface soil	13	25	10.09	381	3.81	mg/kg-dry
BZ38-004	Zinc	surface soil	98	300	73.76	613000	613000	mg/kg-dry
BZ38-004	Copper	surface soil	71	300	18.06	75600	75600	mg/kg-dry
BZ38-004	Chromium	surface soil	31	90	16.99	8720	1020	mg/kg-dry
BZ38-004	Strontium	surface soil	180	250	48.94	1000000	1000000	mg/kg-dry
CA39-012	Nickel	surface soil	36	60	14.91	40900	40900	mg/kg-dry
CA39-012	Chromium	surface soil	24	90	16.99	8720	1020	mg/kg-dry
CA39-012	Zinc	surface soil	170	300	73.76	613000	613000	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-012	Vanadium	surface soil	74	100	45.59	14300	14300	mg/kg-dry
CA39-012	Copper	surface soil	56	300	18.06	75600	75600	mg/kg-dry
CA39-013	Strontium	surface soil	180	250	48.94	1000000	1000000	mg/kg-dry
CA39-013	Arsenic	surface soil	15	25	10.09	381	3.81	mg/kg-dry
CA39-013	Zinc	surface soil	180	300	73.76	613000	613000	mg/kg-dry
CA39-013	Copper	surface soil	79	300	18.06	75600	75600	mg/kg-dry
CA39-013	Chromium	surface soil	48	90	16.99	8720	1020	mg/kg-dry
BZ39-024	Nickel	surface soil	60	60	14.91	40900	40900	mg/kg-dry
BZ39-024	Arsenic	surface soil	13	25	10.09	381	3.81	mg/kg-dry
BZ39-024	Zinc	surface soil	200	300	73.76	613000	613000	mg/kg-dry
BZ39-024	Copper	surface soil	97	300	18.06	75600	75600	mg/kg-dry
BZ39-024	Chromium	surface soil	48	90	16.99	8720	1020	mg/kg-dry
BZ39-025	Nickel	surface soil	32	60	14.91	40900	40900	mg/kg-dry
BZ39-025	Vanadium	surface soil	76	100	45.59	14300	14300	mg/kg-dry
BZ39-025	Zinc	surface soil	230	300	73.76	613000	613000	mg/kg-dry
BZ39-025	Copper	surface soil	56	300	18.06	75600	75600	mg/kg-dry
BZ39-025	Chromium	surface soil	31	90	16.99	8720	1020	mg/kg-dry
BZ39-018	Strontium	surface soil	242	250	48.94	1000000	1000000	mg/kg-dry
BZ39-018	Nickel	surface soil	21.8	60	14.91	40900	40900	mg/kg-dry
BZ39-018	Zinc	surface soil	95.6	50	73.76	613000	613000	mg/kg-dry
BZ39-018	Copper	surface soil	51.2	300	18.06	75600	75600	mg/kg-dry
BZ39-018	Chromium	surface soil	32.5	90	16.99	8720	1020	mg/kg-dry
BZ39-018	Arsenic	surface soil	14.8	25	10.09	381	3.81	mg/kg-dry
BZ39-018	Vanadium	surface soil	69.4	100	45.59	14300	14300	mg/kg-dry
BZ39-008	Manganese	surface soil	534	200	365.08	66800	66800	mg/kg-dry
BZ39-008	Barium	surface soil	746	150	141.26	134000	134000	mg/kg-dry
BZ39-008	Iron	surface soil	40800	2500	18037	613000	613000	mg/kg-dry
BZ39-011	Iron	surface soil	43500	2500	18037	613000	613000	mg/kg-dry
BZ39-011	Nickel	surface soil	61	60	14.91	40900	40900	mg/kg-dry
BZ39-011	Barium	surface soil	665	150	141.26	134000	134000	mg/kg-dry
BZ39-011	Vanadium	surface soil	118	100	45.59	14300	14300	mg/kg-dry
BZ39-018	Manganese	surface soil	572	200	365.08	66800	66800	mg/kg-dry
BZ39-018	Iron	surface soil	28400	2500	18037	613000	613000	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-018	Barium	surface soil	683	150	141.26	134000	134000	mg/kg-dry
BZ39-009	Iron	surface soil	37600	2500	18037	613000	613000	mg/kg-dry
BZ39-009	Vanadium	surface soil	134	100	45.59	14300	14300	mg/kg-dry
BZ39-009	Barium	surface soil	453	150	141.26	134000	134000	mg/kg-dry
BZ39-009	Manganese	surface soil	398	200	365.08	66800	66800	mg/kg-dry
BZ39-014	Iron	surface soil	29900	2500	18037	613000	613000	mg/kg-dry
BZ39-014	Manganese	surface soil	546	200	365.08	66800	66800	mg/kg-dry
BZ39-014	Barium	surface soil	410	150	141.26	134000	134000	mg/kg-dry
BZ39-014	Vanadium	surface soil	115	100	45.59	14300	14300	mg/kg-dry
BZ38-007	Barium	surface soil	744	150	141.26	134000	134000	mg/kg-dry
BZ38-007	Vanadium	surface soil	100	100	45.59	14300	14300	mg/kg-dry
BZ38-007	Manganese	surface soil	892	200	365.08	66800	66800	mg/kg-dry
BZ38-007	Iron	surface soil	41500	2500	18037	613000	613000	mg/kg-dry
BZ38-007	Strontium	surface soil	295	250	48.94	1000000	1000000	mg/kg-dry
BZ39-017	Iron	surface soil	38000	2500	18037	613000	613000	mg/kg-dry
BZ39-017	Barium	surface soil	718	150	141.26	134000	134000	mg/kg-dry
BZ39-017	Copper	surface soil	375	300	18.06	75600	75600	mg/kg-dry
BZ39-017	Manganese	surface soil	790	200	365.08	66800	66800	mg/kg-dry
BZ39-017	Vanadium	surface soil	108	100	45.59	14300	14300	mg/kg-dry
BZ39-010	Barium	surface soil	627	150	141.26	134000	134000	mg/kg-dry
BZ39-010	Manganese	surface soil	618	200	365.08	66800	66800	mg/kg-dry
BZ39-010	Vanadium	surface soil	125	100	45.59	14300	14300	mg/kg-dry
BZ39-010	Iron	surface soil	37300	2500	18037	613000	613000	mg/kg-dry
BZ39-013	Manganese	surface soil	908	200	365.08	66800	66800	mg/kg-dry
BZ39-013	Strontium	surface soil	306	250	48.94	1000000	1000000	mg/kg-dry
BZ39-013	Iron	surface soil	43100	2500	18037	613000	613000	mg/kg-dry
BZ39-013	Vanadium	surface soil	114	100	45.59	14300	14300	mg/kg-dry
BZ39-013	Barium	surface soil	731	150	141.26	134000	134000	mg/kg-dry
BZ39-006	Iron	surface soil	29700	2500	18037	613000	613000	mg/kg-dry
BZ39-006	Manganese	surface soil	616	200	365.08	66800	66800	mg/kg-dry
BZ39-006	Barium	surface soil	699	150	141.26	134000	134000	mg/kg-dry
BZ39-016	Iron	surface soil	18800	2500	18037	613000	613000	mg/kg-dry
BZ39-016	Barium	surface soil	553	150	141.26	134000	134000	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-016	Strontium	surface soil	351	250	48.94	1000000	1000000	mg/kg-dry
BZ39-007	Manganese	surface soil	647	200	365.08	66800	66800	mg/kg-dry
BZ39-007	Lead	surface soil	363	20	54.62	1000	1000	mg/kg-dry
BZ39-007	Iron	surface soil	29200	2500	18037	613000	613000	mg/kg-dry
BZ39-007	Barium	surface soil	662	150	141.26	134000	134000	mg/kg-dry
CA39-004	Strontium	surface soil	369	250	48.94	1000000	1000000	mg/kg-dry
CA39-004	Iron	surface soil	26000	2500	18037	613000	613000	mg/kg-dry
CA39-004	Manganese	surface soil	535	200	365.08	66800	66800	mg/kg-dry
CA39-004	Barium	surface soil	751	150	141.26	134000	134000	mg/kg-dry
CA39-007	Iron	surface soil	37000	2500	18037	613000	613000	mg/kg-dry
CA39-007	Manganese	surface soil	464	200	365.08	66800	66800	mg/kg-dry
CA39-007	Barium	surface soil	664	150	141.26	134000	134000	mg/kg-dry
CA39-010	Tin	surface soil	114	45	N/A	1000000	1000000	mg/kg-dry
CA39-010	Lead	surface soil	235	20	54.62	1000	1000	mg/kg-dry
CA39-010	Manganese	surface soil	549	200	365.08	66800	66800	mg/kg-dry
CA39-010	Vanadium	surface soil	106	100	45.59	14300	14300	mg/kg-dry
CA39-010	Barium	surface soil	655	150	141.26	134000	134000	mg/kg-dry
CA39-010	Iron	surface soil	48200	2500	18037	613000	613000	mg/kg-dry
CA38-006	Manganese	surface soil	512	200	365.08	66800	66800	mg/kg-dry
CA38-006	Iron	surface soil	35900	2500	18037	613000	613000	mg/kg-dry
CA38-006	Barium	surface soil	552	150	141.26	134000	134000	mg/kg-dry
CA38-006	Vanadium	surface soil	132	100	45.59	14300	14300	mg/kg-dry
CA38-004	Manganese	surface soil	564	200	365.08	66800	66800	mg/kg-dry
CA38-004	Iron	surface soil	31400	2500	18037	613000	613000	mg/kg-dry
CA38-004	Barium	surface soil	447	150	141.26	134000	134000	mg/kg-dry
CA38-003	Manganese	surface soil	557	200	365.08	66800	66800	mg/kg-dry
CA38-003	Iron	surface soil	35600	2500	18037	613000	613000	mg/kg-dry
CA38-003	Barium	surface soil	708	150	141.26	134000	134000	mg/kg-dry
CA38-001	Manganese	surface soil	482	200	365.08	66800	66800	mg/kg
CA38-001	Iron	surface soil	31000	2500	18037	613000	613000	mg/kg
CA38-001	Barium	surface soil	689	150	141.26	134000	134000	mg/kg
CA39-002	Iron	surface soil	29700	2500	18037	613000	613000	mg/kg-dry
CA39-002	Manganese	surface soil	552	200	365.08	66800	66800	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-002	Strontium	surface soil	264	250	48.94	1000000	1000000	mg/kg-dry
CA39-002	Barium	surface soil	607	150	141.26	134000	134000	mg/kg-dry
CA39-005	Manganese	surface soil	378	200	365.08	66800	66800	mg/kg-dry
CA39-005	Iron	surface soil	27200	2500	18037	613000	613000	mg/kg-dry
CA39-005	Barium	surface soil	816	150	141.26	134000	134000	mg/kg-dry
CA39-008	Manganese	surface soil	432	200	365.08	66800	66800	mg/kg-dry
CA39-008	Iron	surface soil	30100	2500	18037	613000	613000	mg/kg-dry
CA39-008	Zinc	surface soil	437	300	73.76	613000	613000	mg/kg-dry
CA39-008	Barium	surface soil	694	150	141.26	134000	134000	mg/kg-dry
CA39-011	Iron	surface soil	28900	2500	18037	613000	613000	mg/kg-dry
CA39-011	Zinc	surface soil	550	300	73.76	613000	613000	mg/kg-dry
CA39-011	Barium	surface soil	610	150	141.26	134000	134000	mg/kg-dry
CA39-001	Manganese	surface soil	589	200	365.08	66800	66800	mg/kg-dry
CA39-001	Strontium	surface soil	358	250	48.94	1000000	1000000	mg/kg-dry
CA39-001	Iron	surface soil	27600	2500	18037	613000	613000	mg/kg-dry
CA39-001	Barium	surface soil	670	150	141.26	134000	134000	mg/kg-dry
BZ38-013	Manganese	surface soil	449	200	365.08	66800	66800	mg/kg-dry
BZ38-013	Iron	surface soil	32400	2500	18037	613000	613000	mg/kg-dry
BZ38-013	Barium	surface soil	644	150	141.26	134000	134000	mg/kg-dry
BZ38-012	Manganese	surface soil	462	200	365.08	66800	66800	mg/kg-dry
BZ38-012	Iron	surface soil	30300	2500	18037	613000	613000	mg/kg-dry
BZ38-012	Barium	surface soil	674	150	141.26	134000	134000	mg/kg-dry
CA38-000	Manganese	surface soil	476	200	365.08	66800	66800	mg/kg-dry
CA38-000	Iron	surface soil	35600	2500	18037	613000	613000	mg/kg-dry
CA38-000	Vanadium	surface soil	103	100	45.59	14300	14300	mg/kg-dry
CA38-000	Barium	surface soil	663	150	141.26	134000	134000	mg/kg-dry
CA38-002	Iron	surface soil	32300	2500	18037	613000	613000	mg/kg-dry
CA38-002	Manganese	surface soil	457	200	365.08	66800	66800	mg/kg-dry
CA38-002	Barium	surface soil	604	150	141.26	134000	134000	mg/kg-dry
BZ38-009	Strontium	surface soil	252	250	48.94	1000000	1000000	mg/kg-dry
BZ38-009	Manganese	surface soil	746	200	365.08	66800	66800	mg/kg-dry
BZ38-009	Iron	surface soil	38200	2500	18037	613000	613000	mg/kg-dry
BZ38-009	Vanadium	surface soil	106	100	45.59	14300	14300	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ38-009	Barium	surface soil	622	150	141.26	134000	134000	mg/kg-dry
BZ38-A08	Iron	surface soil	43400	2500	18037	613000	613000	mg/kg-dry
BZ38-A08	Manganese	surface soil	831	200	365.08	66800	66800	mg/kg-dry
BZ38-A08	Barium	surface soil	862	150	141.26	134000	134000	mg/kg-dry
BZ38-006	Barium	surface soil	405	150	141.26	134000	134000	mg/kg-dry
BZ38-005	Barium	surface soil	634	150	141.26	134000	134000	mg/kg-dry
BZ38-005	Manganese	surface soil	599	200	365.08	66800	66800	mg/kg-dry
BZ38-005	Iron	surface soil	34500	2500	18037	613000	613000	mg/kg-dry
BZ38-002	Iron	surface soil	29500	2500	18037	613000	613000	mg/kg-dry
BZ38-002	Manganese	surface soil	392	200	365.08	66800	66800	mg/kg-dry
BZ38-002	Barium	surface soil	519	150	141.26	134000	134000	mg/kg-dry
BZ38-002	Vanadium	surface soil	106	100	45.59	14300	14300	mg/kg-dry
BZ38-003	Barium	surface soil	592	150	141.26	134000	134000	mg/kg-dry
BZ38-003	Iron	surface soil	30200	2500	18037	613000	613000	mg/kg-dry
BZ38-003	Manganese	surface soil	506	200	365.08	66800	66800	mg/kg-dry
BZ38-004	Iron	surface soil	33800	2500	18037	613000	613000	mg/kg-dry
BZ38-004	Manganese	surface soil	644	200	365.08	66800	66800	mg/kg-dry
BZ38-004	Vanadium	surface soil	104	100	45.59	14300	14300	mg/kg-dry
BZ38-004	Barium	surface soil	668	150	141.26	134000	134000	mg/kg-dry
CA39-012	Strontium	surface soil	279	250	48.94	1000000	1000000	mg/kg-dry
CA39-012	Manganese	surface soil	520	200	365.08	66800	66800	mg/kg-dry
CA39-012	Iron	surface soil	33400	2500	18037	613000	613000	mg/kg-dry
CA39-012	Barium	surface soil	731	150	141.26	134000	134000	mg/kg-dry
CA39-013	Nickel	surface soil	64.1	60	14.91	40900	40900	mg/kg-dry
CA39-013	Iron	surface soil	41300	2500	18037	613000	613000	mg/kg-dry
CA39-013	Vanadium	surface soil	118	100	45.59	14300	14300	mg/kg-dry
CA39-013	Barium	surface soil	742	150	141.26	134000	134000	mg/kg-dry
BZ39-024	Strontium	surface soil	270	250	48.94	1000000	1000000	mg/kg-dry
BZ39-024	Barium	surface soil	736	150	141.26	134000	134000	mg/kg-dry
BZ39-024	Vanadium	surface soil	140	100	45.59	14300	14300	mg/kg-dry
BZ39-024	Manganese	surface soil	625	200	365.08	66800	66800	mg/kg-dry
BZ39-024	Iron	surface soil	44800	2500	18037	613000	613000	mg/kg-dry
BZ39-025	Manganese	surface soil	624	200	365.08	66800	66800	mg/kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-025	Strontium	surface soil	391	250	48.94	1000000	1000000	mg/kg-dry
BZ39-025	Barium	surface soil	827	150	141.26	134000	134000	mg/kg-dry
BZ39-025	Iron	surface soil	31300	2500	18037	613000	613000	mg/kg-dry
BZ39-030	Uranium-235	surface soil	0.181	1	0.09	113	24	pCi/g
BZ39-011	Uranium-234	surface soil	4.29	8	2	1627.00	307.00	pCi/g
BZ39-011	Uranium-238	surface soil	4.29	8	2	506	103	pCi/g
BZ39-011	Uranium-235	surface soil	0.276	1	0.09	113	24	pCi/g
BZ39-032	Uranium-235	surface soil	0.147	1	0.09	113	24	pCi/g
BZ39-031	Uranium-235	surface soil	0.147	1	0.09	113	24	pCi/g
CA39-003	Uranium-234	surface soil	2.34	8	2	1627.00	307.00	pCi/g
CA39-003	Uranium-238	surface soil	2.34	8	2	506	103	pCi/g
CA38-005	Uranium-235	surface soil	0.147	1	0.09	113	24	pCi/g
BZ39-008	Uranium-235	surface soil	0.51	1	0.09	113	24	pCi/g
BZ39-018	Uranium-235	surface soil	0.287	1	0.09	113	24	pCi/g
BZ39-018	Uranium-2334	surface soil	4.86	8	2	1627.00	307.00	pCi/g
BZ39-018	Uranium-238	surface soil	4.86	8	2	506	103	pCi/g
BZ39-009	Uranium-234	surface soil	6.39	8	2	1627.00	307.00	pCi/g
BZ39-009	Uranium-238	surface soil	6.39	8	2	506	103	pCi/g
BZ39-014	Uranium-234	surface soil	3.81	8	2	1627.00	307.00	pCi/g
BZ39-014	Uranium-238	surface soil	3.81	8	2	506	103	pCi/g
BZ38-007	Uranium-235	surface soil	0.312	1	0.09	113	24	pCi/g
BZ38-007	Uranium-234	surface soil	3.21	8	2	1627.00	307.00	pCi/g
BZ38-007	Uranium-238	surface soil	3.21	8	2	506	103	pCi/g
BZ39-017	Uranium-234	surface soil	3.78	8	2	1627.00	307.00	pCi/g
BZ39-017	Uranium-238	surface soil	3.78	8	2	506	103	pCi/g
BZ39-017	Uranium-235	surface soil	0.194	1	0.09	113	24	pCi/g
BZ39-010	Uranium-234	surface soil	3.07	8	2	1627.00	307.00	pCi/g
BZ39-010	Uranium-238	surface soil	3.07	8	2	506	103	pCi/g
BZ39-013	Uranium-234	surface soil	3.77	8	2	1627.00	307.00	pCi/g
BZ39-013	Uranium-238	surface soil	3.77	8	2	506	103	pCi/g
BZ39-006	Uranium234	surface soil	5.36	8	2	1627.00	307.00	pCi/g
BZ39-006	Uranium238	surface soil	5.36	8	2	506	103	pCi/g
BZ39-006	Americium-241	surface soil	0.263	4	0.02	209	38	pCi/g

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-016	Uranium-234	surface soil	3.89	8	2	1627.00	307.00	pCi/g
BZ39-016	Uranium-238	surface soil	3.89	8	2	506	103	pCi/g
BZ39-016	Uranium-235	surface soil	0.239	1	0.09	113	24	pCi/g
BZ39-007	Uranium-235	surface soil	0.122	1	0.09	113	24	pCi/g
BZ39-007	Uranium-234	surface soil	3.74	8	2	1627.00	307.00	pCi/g
BZ39-007	Uranium-234	surface soil	3.74	8	2	506	103	pCi/g
CA39-004	Uranium-234	surface soil	5.24	8	2	1627.00	307.00	pCi/g
CA39-004	Uranium-238	surface soil	5.24	8	2	506	103	pCi/g
CA39-004	Uranium-235	surface soil	0.138	1	0.09	113	24	pCi/g
CA39-007	Uranium-235	surface soil	0.178	1	0.09	113	24	pCi/g
CA39-007	Uranium-234	surface soil	3.43	8	2	1627.00	307.00	pCi/g
CA39-007	Uranium-238	surface soil	3.43	8	2	506	103	pCi/g
CA39-010	Uranium-234	surface soil	4.29	8	2	1627.00	307.00	pCi/g
CA39-010	Uranium-238	surface soil	4.29	8	2	506	103	pCi/g
CA39-010	Uranium-235	surface soil	0.228	1	0.09	113	24	pCi/g
CA38-006	Uranium-235	surface soil	0.165	1	0.09	113	24	pCi/g
CA38-006	Uranium-234	surface soil	3.18	8	2	1627.00	307.00	pCi/g
CA38-006	Uranium-238	surface soil	3.18	8	2	506	103	pCi/g
CA38-004	Uranium-235	surface soil	0.313	1	0.09	113	24	pCi/g
CA38-004	Uranium-234	surface soil	4.52	8	2	1627.00	307.00	pCi/g
CA38-004	Uranium-238	surface soil	4.52	8	2	506	103	pCi/g
CA38-003	Uranium-235	surface soil	0.302	1	0.09	113	24	pCi/g
CA38-003	Uranium-234	surface soil	3.96	8	2	1627.00	307.00	pCi/g
CA38-003	Uranium-238	surface soil	3.96	8	2	506	103	pCi/g
CA38-001	Uranium-234	surface soil	3.71	8	2	1627.00	307.00	pCi/g
CA38-001	Uranium-238	surface soil	3.71	8	2	506	103	pCi/g
CA38-001	Uranium-235	surface soil	0.207	1	0.09	113	24	pCi/g
CA39-002	Uranium-235	surface soil	0.3	1	0.09	113	24	pCi/g-dry
CA39-005	Uranium-234	surface soil	3.79	8	2	1627.00	307.00	pCi/g
CA39-005	Uranium-238	surface soil	3.79	8	2	506	103	pCi/g
CA39-005	Uranium-235	surface soil	0.257	1	0.09	113	24	pCi/g
CA39-008	Uranium-235	surface soil	0.192	1	0.09	113	24	pCi/g
CA39-011	Uranium-235	surface soil	0.215	1	0.09	113	24	pCi/g

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-011	Uranium-234	surface soil	2.59	8	2	1627.00	307.00	pCi/g
CA39-011	Uranium-238	surface soil	2.59	8	2	506	103	pCi/g
CA39-001	Uranium-235	surface soil	0.2	1	0.09	113	24	pCi/g-dry
BZ38-013	Uranium-234	surface soil	4.52	8	2	1627.00	307.00	pCi/g
BZ38-013	Uranium-238	surface soil	4.52	8	2	506	103	pCi/g
BZ38-013	Uranium-235	surface soil	0.299	1	0.09	113	24	pCi/g
BZ38-012	Uranium-234	surface soil	5.34	8	2	1627.00	307.00	pCi/g
BZ38-012	Uranium-238	surface soil	5.34	8	2	506	103	pCi/g
BZ38-012	Uranium-235	surface soil	0.229	1	0.09	113	24	pCi/g
CA38-000	Uranium-235	surface soil	0.33	1	0.09	113	24	pCi/g
CA38-000	Uranium-234	surface soil	7.45	8	2	1627.00	307.00	pCi/g
CA38-000	Uranium-238	surface soil	7.45	8	2	506	103	pCi/g
CA38-002	Uranium-234	surface soil	3.49	8	2	1627.00	307.00	pCi/g
CA38-002	Uranium-238	surface soil	3.49	8	2	506	103	pCi/g
CA38-002	Uranium-235	surface soil	0.296	1	0.09	113	24	pCi/g
BZ38-009	Uranium-235	surface soil	0.2	1	0.09	113	24	pCi/g-dry
BZ38-A08	Uranium-235	surface soil	0.1	1	0.09	113	24	pCi/g-dry
BZ38-006	Uranium-235	surface soil	0.1	1	0.09	113	24	pCi/g-dry
BZ38-005	Uranium-235	surface soil	0.3	1	0.09	113	24	pCi/g-dry
BZ38-002	Uranium-234	surface soil	6.38	8	2	1627.00	307.00	pCi/g
BZ38-002	Uranium-238	surface soil	6.38	8	2	506	103	pCi/g
BZ38-003	Uranium-235	surface soil	0.1	1	0.09	113	24	pCi/g-dry
BZ38-002	Uranium-235	surface soil	0.207	1	0.09	113	24	pCi/g
BZ38-002	Uranium-235	surface soil	0.3	1	0.09	113	24	pCi/g-dry
BZ38-004	Uranium-235	surface soil	0.2	1	0.09	113	24	pCi/g-dry
CA39-013	Uranium-235	surface soil	0.2	1	0.09	113	24	pCi/g-dry
BZ39-024	Uranium-235	surface soil	0.21	1	0.09	113	24	pCi/g-dry
BZ39-025	Uranium-235	surface soil	0.2	1	0.09	113	24	pCi/g-dry
BZ38-010	Copper	subsurface soil	69	300	38.21	75600	75600	mg/Kg-dry
BZ38-011	Zinc	subsurface soil	170	300	139.1	613000	613000	mg/Kg-dry
BZ38-011	Copper	subsurface soil	77	300	38.21	75600	75600	mg/Kg-dry
BZ39-020	Copper	subsurface soil	100	300	38.21	75600	75600	mg/Kg-dry
BZ39-020	Zinc	subsurface soil	210	300	139.1	613000	613000	mg/Kg-dry

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-021	Copper	subsurface soil	91	300	38.21	75600	75600	mg/Kg-dry
BZ39-021	Arsenic	subsurface soil	14	25	13.14	381	3.81	mg/Kg-dry
BZ39-021	Zinc	subsurface soil	210	300	139.1	613000	613000	mg/Kg-dry
BZ39-022	Copper	subsurface soil	53	300	38.21	75600	75600	mg/Kg-dry
BZ39-022	Cadmium	subsurface soil	1.8	85	1.7	2040	2040	mg/Kg-dry
BZ38-010	Iron	subsurface soil	49600	2500	41046.52	613000	613000	mg/Kg-dry
BZ38-010	Manganese	subsurface soil	1030	200	901.62	66800	66800	mg/Kg-dry
BZ38-010	Barium	subsurface soil	666	150	289.38	134000	134000	mg/Kg-dry
BZ38-010	Vanadium	subsurface soil	168	100	88.49	14300	14300	mg/Kg-dry
BZ38-011	Iron	subsurface soil	78800	2500	41046.52	613000	613000	mg/Kg-dry
BZ38-011	Manganese	subsurface soil	1760	200	901.62	66800	66800	mg/Kg-dry
BZ38-011	Vanadium	subsurface soil	297	100	88.49	14300	14300	mg/Kg-dry
BZ38-011	Barium	subsurface soil	659	150	289.38	134000	134000	mg/Kg-dry
BZ39-020	Iron	subsurface soil	72000	2500	41046.52	613000	613000	mg/Kg-dry
BZ39-020	Manganese	subsurface soil	1640	200	901.62	66800	66800	mg/Kg-dry
BZ39-020	Vanadium	subsurface soil	271	100	88.49	14300	14300	mg/Kg-dry
BZ39-020	Barium	subsurface soil	797	150	289.38	134000	134000	mg/Kg-dry
BZ39-021	Nickel	subsurface soil	64.2	60	62.21	40900	40900	mg/Kg-dry
BZ39-021	Iron	subsurface soil	80000	2500	41046.52	613000	613000	mg/Kg-dry
BZ39-021	Manganese	subsurface soil	1520	200	901.62	66800	66800	mg/Kg-dry
BZ39-021	Vanadium	subsurface soil	287	100	88.49	14300	14300	mg/Kg-dry
BZ39-021	Barium	subsurface soil	805	150	289.38	134000	134000	mg/Kg-dry
BZ39-022	Iron	subsurface soil	47700	2500	41046.52	613000	613000	mg/Kg-dry
BZ39-022	Barium	subsurface soil	694	150	289.38	134000	134000	mg/Kg-dry
BZ39-022	Vanadium	subsurface soil	165	100	88.49	14300	14300	mg/Kg-dry
BZ39-008	Uranium-234	subsurface soil	5.67	8	1.49	1627.00	307.00	pCi/g
BZ39-008	Uranium-238	subsurface soil	5.67	8	1.49	506	103	pCi/g
BZ39-011	Uranium-234	subsurface soil	3.59	8	1.49	1627.00	307.00	pCi/g
BZ39-011	Uranium-238	subsurface soil	3.59	8	1.49	506	103	pCi/g
BZ39-011	Uranium-235	subsurface soil	0.275	1	0.12	113	24	pCi/g
CA39-003	Uranium-235	subsurface soil	0.206	1	0.12	113	24	pCi/g
CA39-003	Uranium-234	subsurface soil	3.63	8	1.49	1627.00	307.00	pCi/g
CA39-003	Uranium-238	subsurface soil	3.63	8	1.49	506	103	pCi/g

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-005	Uranium-234	subsurface soil	3.72	8	1.49	1627.00	307.00	pCi/g
CA38-005	Uranium-238	subsurface soil	3.72	8	1.49	506	103	pCi/g
BZ39-008	Uranium-235	subsurface soil	0.337	1	0.12	113	24	pCi/g
BZ39-018	Uranium-234	subsurface soil	3.51	8	1.49	1627.00	307.00	pCi/g
BZ39-018	Uranium-238	subsurface soil	3.51	8	1.49	506	103	pCi/g
BZ39-009	Uranium-234	subsurface soil	4.18	8	1.49	1627.00	307.00	pCi/g
BZ39-009	Uranium-238	subsurface soil	4.18	8	1.49	506	103	pCi/g
BZ39-009	Uranium-235	subsurface soil	0.385	1	0.12	113	24	pCi/g
BZ39-014	Uranium-234	subsurface soil	4.34	8	1.49	1627.00	307.00	pCi/g
BZ39-014	Uranium-238	subsurface soil	4.34	8	1.49	506	103	pCi/g
BZ39-014	Uranium-235	subsurface soil	0.31	1	0.12	113	24	pCi/g
BZ38-007	Uranium-235	subsurface soil	0.239	1	0.12	113	24	pCi/g
BZ38-007	Uranium-234	subsurface soil	6	8	1.49	1627.00	307.00	pCi/g
BZ38-007	Uranium-238	subsurface soil	6	8	1.49	506	103	pCi/g
BZ39-017	Uranium-234	subsurface soil	3.65	8	1.49	1627.00	307.00	pCi/g
BZ39-017	Uranium-238	subsurface soil	3.65	8	1.49	506	103	pCi/g
BZ39-010	Uranium-234	subsurface soil	5.63	8	1.49	1627.00	307.00	pCi/g
BZ39-010	Uranium-238	subsurface soil	5.63	8	1.49	506	103	pCi/g
BZ39-013	Uranium-234	subsurface soil	3.44	8	1.49	1627.00	307.00	pCi/g
BZ39-013	Uranium-238	subsurface soil	3.44	8	1.49	506	103	pCi/g
BZ39-013	Uranium-235	subsurface soil	0.347	1	0.12	113	24	pCi/g
BZ39-006	Uranium-235	subsurface soil	0.304	1	0.12	113	24	pCi/g
BZ39-006	Uranium-234	subsurface soil	5.73	8	1.49	1627.00	307.00	pCi/g
BZ39-006	Uranium-238	subsurface soil	5.73	8	1.49	506	103	pCi/g
BZ39-016	Uranium-234	subsurface soil	5	8	1.49	1627.00	307.00	pCi/g
BZ39-016	Uranium-238	subsurface soil	5	8	1.49	506	103	pCi/g
BZ39-016	Uranium-235	subsurface soil	0.339	1	0.12	113	24	pCi/g
BZ39-007	Uranium-234	subsurface soil	3.99	8	1.49	1627.00	307.00	pCi/g
BZ39-007	Uranium-238	subsurface soil	3.99	8	1.49	506	103	pCi/g
BZ39-007	Uranium-235	subsurface soil	0.226	1	0.12	113	24	pCi/g
CA39-004	Uranium-234	subsurface soil	2.35	8	1.49	1627.00	307.00	pCi/g
CA39-004	Uranium-238	subsurface soil	2.35	8	1.49	506	103	pCi/g
CA39-004	Uranium-235	subsurface soil	0.209	1	0.12	113	24	pCi/g

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA39-007	Uranium-234	subsurface soil	5.27	8	1.49	1627.00	307.00	pCi/g
CA39-007	Uranium-238	subsurface soil	5.27	8	1.49	506	103	pCi/g
CA39-010	Uranium-234	subsurface soil	2.48	8	1.49	1627.00	307.00	pCi/g
CA39-010	Uranium-238	subsurface soil	2.48	8	1.49	506	103	pCi/g
CA39-010	Uranium-235	subsurface soil	0.258	1	0.12	113	24	pCi/g
CA38-006	Uranium-235	subsurface soil	0.14	1	0.12	113	24	pCi/g
CA38-006	Uranium-234	subsurface soil	2.09	8	1.49	1627.00	307.00	pCi/g
CA38-006	Uranium-238	subsurface soil	2.09	8	1.49	506	103	pCi/g
CA38-004	Uranium-235	subsurface soil	0.246	1	0.12	113	24	pCi/g
CA38-004	Uranium-234	subsurface soil	3.16	8	1.49	1627.00	307.00	pCi/g
CA38-004	Uranium-238	subsurface soil	3.16	8	1.49	506	103	pCi/g
CA38-003	Uranium-234	subsurface soil	4.46	8	1.49	1627.00	307.00	pCi/g
CA38-003	Uranium-238	subsurface soil	4.46	8	1.49	506	103	pCi/g
CA38-003	Uranium-235	subsurface soil	0.419	1	0.12	113	24	pCi/g
CA38-001	Uranium-234	subsurface soil	3.13	8	1.49	1627.00	307.00	pCi/g
CA38-001	Uranium-238	subsurface soil	3.13	8	1.49	506	103	pCi/g
CA39-002	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
CA39-005	Uranium-235	subsurface soil	0.212	1	0.12	113	24	pCi/g
CA39-005	Uranium-234	subsurface soil	3.23	8	1.49	1627.00	307.00	pCi/g
CA39-005	Uranium-238	subsurface soil	3.23	8	1.49	506	103	pCi/g
CA39-008	Uranium-234	subsurface soil	3.68	8	1.49	1627.00	307.00	pCi/g
CA39-008	Uranium-238	subsurface soil	3.68	8	1.49	506	103	pCi/g
CA39-008	Uranium-235	subsurface soil	0.246	1	0.12	113	24	pCi/g
CA39-011	Uranium-234	subsurface soil	4.12	8	1.49	1627.00	307.00	pCi/g
CA39-011	Uranium-238	subsurface soil	4.12	8	1.49	506	103	pCi/g
CA39-011	Uranium-235	subsurface soil	0.32	1	0.12	113	24	pCi/g
CA39-001	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ38-013	Uranium-235	subsurface soil	0.332	1	0.12	113	24	pCi/g
BZ38-013	Uranium-234	subsurface soil	4.01	8	1.49	1627.00	307.00	pCi/g
BZ38-013	Uranium-238	subsurface soil	4.01	8	1.49	506	103	pCi/g
BZ38-012	Uranium-235	subsurface soil	0.224	1	0.12	113	24	pCi/g
BZ38-012	Uranium-234	subsurface soil	2.17	8	1.49	1627.00	307.00	pCi/g
BZ38-012	Uranium-238	subsurface soil	2.17	8	1.49	506	103	pCi/g

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
CA38-000	Uranium-235	subsurface soil	0.24	1	0.12	113	24	pCi/g
CA38-000	Uranium-234	subsurface soil	2.45	8	1.49	1627.00	307.00	pCi/g
CA38-000	Uranium-238	subsurface soil	2.45	8	1.49	506	103	pCi/g
CA38-002	Uranium-235	subsurface soil	0.161	1	0.12	113	24	pCi/g
CA38-002	Uranium-234	subsurface soil	4.74	8	1.49	1627.00	307.00	pCi/g
CA38-002	Uranium-238	subsurface soil	4.74	8	1.49	506	103	pCi/g
BZ38-010	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ38-011	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ39-020	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ39-021	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ38-008	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ38-005	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ38-002	Uranium-234	subsurface soil	3.85	8	1.49	1627.00	307.00	pCi/g
BZ38-002	Uranium-238	subsurface soil	3.85	8	1.49	506	103	pCi/g
BZ38-002	Uranium-235	subsurface soil	0.27	1	0.12	113	24	pCi/g
BZ38-002	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ38-003	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ38-004	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
CA39-013	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ38-010	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ38-011	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ39-020	Uranium-235	subsurface soil	0.4	1	0.12	113	24	pCi/g-dry
BZ39-021	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ39-022	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ38-010	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ38-011	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ39-020	Uranium-235	subsurface soil	0.4	1	0.12	113	24	pCi/g-dry
BZ39-021	Uranium-235	subsurface soil	0.2	1	0.12	113	24	pCi/g-dry
BZ39-022	Uranium-235	subsurface soil	0.3	1	0.12	113	24	pCi/g-dry
BZ39-000	2-Methylnaphthalene	surface soil	210	60	N/A	76800000	76800000	ug/kg
BZ39-000	Acenapthene	surface soil	750	47	N/A	115000000	115000000	ug/kg
BZ39-000	Aluminum	surface soil	23000	1.2	16902	1000000	1000000	mg/kg
BZ39-000	Anthracene	surface soil	910	79	N/A	576000000	576000000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-000	Benzo(A)Anthracene	surface soil	1200	40	N/A	614000	6140	ug/kg
BZ39-000	Benzo(A)Pyrene	surface soil	1000	96	N/A	61400	614	ug/kg
BZ39-000	Benzo(B)Fluoranthene	surface soil	1100	100	N/A	614000	6140	ug/kg
BZ39-000	Benzo(K)Fluoranthene	surface soil	990	95	N/A	6140000	61400	ug/kg
BZ39-000	Chromium	surface soil	26	0.053	16.99	44300	4410	mg/kg
BZ39-000	Chrysene	surface soil	1200	54	N/A	61400000	614000	ug/kg
BZ39-000	Dibenz(A,H)Anthracene	surface soil	280	48	N/A	61400	614	ug/kg
BZ39-000	Dibenzofuran	surface soil	370	83	N/A	7680000	7680000	ug/kg
BZ39-000	Fluoranthene	surface soil	4100	86	N/A	76800000	76800000	ug/kg
BZ39-000	Fluorene	surface soil	600	77	N/A	76800000	76800000	ug/kg
BZ39-000	Indeno(1,2,3-Cd)Pyrene	surface soil	650	49	N/A	614000	6140	ug/kg
BZ39-000	Iron	surface soil	20300	1.4	18037	576000	576000	mg/kg
BZ39-000	Lithium	surface soil	14.4	0.17	11.55	38400	38400	mg/kg
BZ39-000	Naphthalene	surface soil	690	71	N/A	76800000	76800000	ug/kg
BZ39-000	Nickel	surface soil	18.2	0.64	14.91	38400	38400	mg/kg
BZ39-000	Pyrene	surface soil	3000	41	N/A	57600000	57600000	ug/kg
BZ39-001	Acenapthene	surface soil	170	47	N/A	115000000	115000000	ug/kg
BZ39-001	Anthracene	surface soil	170	80	N/A	576000000	576000000	ug/kg
BZ39-001	Barium	surface soil	185	0.039	141.26	133000	133000	mg/kg
BZ39-001	Benzo(A)Anthracene	surface soil	260	40	N/A	614000	6140	ug/kg
BZ39-001	Benzo(A)Pyrene	surface soil	290	96	N/A	61400	614	ug/kg
BZ39-001	Benzo(B)Fluoranthene	surface soil	240	100	N/A	614000	6140	ug/kg
BZ39-001	Benzo(K)Fluoranthene	surface soil	220	95	N/A	6140000	61400	ug/kg
BZ39-001	Chrysene	surface soil	290	54	N/A	61400000	614000	ug/kg
BZ39-001	Dibenz(A,H)Anthracene	surface soil	88	48	N/A	61400	614	ug/kg
BZ39-001	Fluoranthene	surface soil	850	86	N/A	76800000	76800000	ug/kg
BZ39-001	Fluorene	surface soil	130	77	N/A	76800000	76800000	ug/kg
BZ39-001	Indeno(1,2,3-Cd)Pyrene	surface soil	200	49	N/A	614000	6140	ug/kg
BZ39-001	Lithium	surface soil	11.9	0.17	11.55	38400	38400	mg/kg
BZ39-001	Naphthalene	surface soil	140	71	N/A	76800000	76800000	ug/kg
BZ39-001	Pyrene	surface soil	710	41	N/A	57600000	57600000	ug/kg
BZ39-001	Zinc	surface soil	84.8	0.2	73.76	576000	576000	mg/kg
BZ39-002	Acenapthene	surface soil	190	46	N/A	115000000	115000000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-002	Anthracene	surface soil	200	78	N/A	576000000	576000000	ug/kg
BZ39-002	Benzo(a)anthracene	surface soil	420	39	N/A	614000	6140	ug/kg
BZ39-002	Benzo(a)pyrene	surface soil	380	95	N/A	61400	614	ug/kg
BZ39-002	Benzo(b)fluoranthene	surface soil	340	100	N/A	614000	6140	ug/kg
BZ39-002	Benzo(k)Fluoranthene	surface soil	330	94	N/A	6140000	61400	ug/kg
BZ39-002	Chromium	surface soil	21.1	0.052	16.99	44300	4410	mg/kg
BZ39-002	Chrysene	surface soil	480	54	N/A	61400000	614000	ug/kg
BZ39-002	Fluoranthene	surface soil	1100	84	N/A	76800000	76800000	ug/kg
BZ39-002	Indeno(1,2,3-cd)pyrene	surface soil	240	48	N/A	614000	6140	ug/kg
BZ39-002	Lead	surface soil	64.2	0.19	54.62	1000	1000	mg/kg
BZ39-002	Pyrene	surface soil	970	40	N/A	57600000	57600000	ug/kg
BZ39-002	Zinc	surface soil	76.9	0.2	73.76	576000	576000	mg/kg
BZ39-003	Benzo(a)anthracene	surface soil	190	41	N/A	614000	6140	ug/kg
BZ39-003	Benzo(a)pyrene	surface soil	200	98	N/A	61400	614	ug/kg
BZ39-003	Benzo(b)fluoranthene	surface soil	160	100	N/A	614000	6140	ug/kg
BZ39-003	Benzo(k)Fluoranthene	surface soil	170	97	N/A	6140000	61400	ug/kg
BZ39-003	Chromium	surface soil	19.4	0.054	16.99	44300	4410	mg/kg
BZ39-003	Chrysene	surface soil	220	55	N/A	61400000	614000	ug/kg
BZ39-003	Fluoranthene	surface soil	410	88	N/A	76800000	76800000	ug/kg
BZ39-003	Indeno(1,2,3-cd)pyrene	surface soil	160	50	N/A	614000	6140	ug/kg
BZ39-003	Pyrene	surface soil	430	42	N/A	57600000	57600000	ug/kg
BZ39-004	Acenapthene	surface soil	170	47	N/A	115000000	115000000	ug/kg
BZ39-004	Anthracene	surface soil	170	79	N/A	576000000	576000000	ug/kg
BZ39-004	Benzo(a)anthracene	surface soil	340	40	N/A	614000	6140	ug/kg
BZ39-004	Benzo(a)pyrene	surface soil	370	96	N/A	61400	614	ug/kg
BZ39-004	Benzo(b)fluoranthene	surface soil	320	100	N/A	614000	6140	ug/kg
BZ39-004	Benzo(k)Fluoranthene	surface soil	340	95	N/A	6140000	61400	ug/kg
BZ39-004	Chrysene	surface soil	390	54	N/A	61400000	614000	ug/kg
BZ39-004	Fluoranthene	surface soil	880	86	N/A	76800000	76800000	ug/kg
BZ39-004	Fluorene	surface soil	130	77	N/A	76800000	76800000	ug/kg
BZ39-004	Indeno(1,2,3-cd)pyrene	surface soil	280	49	N/A	614000	6140	ug/kg
BZ39-004	Pyrene	surface soil	870	41	N/A	57600000	57600000	ug/kg
BZ39-005	Acenapthene	surface soil	130	46	N/A	115000000	115000000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
BZ39-005	Anthracene	surface soil	170	79	N/A	576000000	576000000	ug/kg
BZ39-005	Benzo(a)anthracene	surface soil	340	39	N/A	614000	6140	ug/kg
BZ39-005	Benzo(a)pyrene	surface soil	400	95	N/A	61400	614	ug/kg
BZ39-005	Benzo(b)fluoranthene	surface soil	340	100	N/A	614000	6140	ug/kg
BZ39-005	Benzo(k)Fluoranthene	surface soil	330	94	N/A	6140000	61400	ug/kg
BZ39-005	Chrysene	surface soil	410	54	N/A	61400000	614000	ug/kg
BZ39-005	Fluoranthene	surface soil	980	85	N/A	76800000	76800000	ug/kg
BZ39-005	Indeno(1,2,3-cd)pyrene	surface soil	300	48	N/A	614000	6140	ug/kg
BZ39-005	Pyrene	surface soil	780	40	N/A	57600000	57600000	ug/kg
CA39-000	Anthracene	surface soil	86	80	N/A	576000000	576000000	ug/kg
CA39-000	Benzo(a)anthracene	surface soil	300	40	N/A	614000	6140	ug/kg
CA39-000	Benzo(a)pyrene	surface soil	330	96	N/A	61400	614	ug/kg
CA39-000	Benzo(b)fluoranthene	surface soil	240	100	N/A	614000	6140	ug/kg
CA39-000	Benzo(k)Fluoranthene	surface soil	260	95	N/A	6140000	61400	ug/kg
CA39-000	Chrysene	surface soil	330	55	N/A	61400000	614000	ug/kg
CA39-000	Fluoranthene	surface soil	650	86	N/A	76800000	76800000	ug/kg
CA39-000	Indeno(1,2,3-cd)pyrene	surface soil	250	49	N/A	614000	6140	ug/kg
CA39-000	Pyrene	surface soil	630	41	N/A	57600000	57600000	ug/kg
Preaccerated Action Data								
SED01295	Zinc	surface soil	63.1	0.418	73.76	613000	613000	mg/kg
SED00795	Zinc	surface soil	22.1	0.473	73.76	613000	613000	mg/kg
SED01295	Xylene (total)	surface soil	11	11	N/A	1000000000	1000000000	ug/kg
SED00795	Xylene (total)	surface soil	12	12	N/A	1000000000	1000000000	ug/kg
SED01295	Vinyl chloride	surface soil	11	11	N/A	301000	3010	ug/kg
SED00795	Vinyl chloride	surface soil	12	12	N/A	301000	3010	ug/kg
SED01295	Vanadium	surface soil	13.2	0.627	N/A	14300	14300	mg/kg
SED00795	Vanadium	surface soil	4.1	0.71	N/A	14300	14300	mg/kg
SED01295	Uranium-238	surface soil	0.41	0.03	2	506	103	pCi/g
SED00795	Uranium-238	surface soil	0.5	0.03	2	506	103	pCi/g
SED00795	Uranium-235	surface soil	0.027	0.04	0.09	113	24	pCi/g
SED01295	Uranium-235	surface soil	0.005	0.04	0.09	113	24	pCi/g
SED01295	Uranium-233,-234	surface soil	0.41	0.05	N/A	1627	307	pCi/g
SED00795	Uranium-233,-234	surface soil	0.39	0.06	N/A	1627	307	pCi/g

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED01295	Trichloroethene	surface soil	11	11	N/A	520000	52000000	ug/kg
SED00795	Trichloroethene	surface soil	12	12	N/A	520000	52000000	ug/kg
SED01295	Trans-1,3-Dichloropropene	surface soil	11	11	N/A	3180000	31800	ug/kg
SED00795	Trans-1,3-Dichloropropene	surface soil	12	12	N/A	3180000	31800	ug/kg
SED01295	Toxaphene	surface soil	180	180	N/A	520000	5200	ug/kg
SED00795	Toxaphene	surface soil	200	200	N/A	520000	5200	ug/kg
SED01295	Toluene	surface soil	11	11	N/A	409000000	409000000	ug/kg
SED00795	Toluene	surface soil	12	12	N/A	409000000	409000000	ug/kg
SED01295	Tin	surface soil	7	5.01	N/A	1000000	1000000	mg/kg
SED00795	Tin	surface soil	8.8	5.68	N/A	1000000	1000000	mg/kg
SED01295	Tetrachloroethene	surface soil	11	11	N/A	11000000	110000	ug/kg
SED00795	Tetrachloroethene	surface soil	12	12	N/A	11000000	110000	ug/kg
SED01295	Styrene	surface soil	11	11	N/A	409000000	409000000	ug/kg
SED00795	Styrene	surface soil	12	12	N/A	409000000	409000000	ug/g
SED01295	Strontium	surface soil	7.8	0.209	48.94	1000000	1000000	mg/kg
SED00795	Strontium	surface soil	4.6	0.237	48.94	1000000	1000000	mg/kg
SED00795	Silver	surface soil	0.947	0.947	N/A	10200	10200	mg/kg
SED01295	Silver	surface soil	0.835	0.835	N/A	10200	10200	mg/kg
SED00795	Selenium	surface soil	0.71	0.71	N/A	10200	10200	mg/kg
SED01295	Selenium	surface soil	0.627	0.627	N/A	10200	10200	mg/kg
SED01295	Pyrene	surface soil	1700	360	N/A	61300000	61300000	ug/kg
SED00795	Pyrene	surface soil	1400	400	N/A	61300000	61300000	ug/kg
SED01295	Plutonium-239/240	surface soil	0.025	0.005	N/A	1088	252	pCi/g
SED00795	Plutonium-239/240	surface soil	0.013	0.003	N/A	1088	252	pCi/g
SED01295	Phenol	surface soil	360	360	N/A	1000000000	1000000000	ug/kg
SED00795	Phenol	surface soil	400	400	N/A	1000000000	1000000000	ug/kg
SED01295	Pentachlorophenol	surface soil	1100	890	N/A	4770000	47700	ug/kg
SED00795	Pentachlorophenol	surface soil	990	990	N/A	4770000	47700	ug/kg
SED01295	n-Nitrosodipropylamine	surface soil	360	360	N/A	81700	817	ug/kg
SED00795	n-Nitrosodipropylamine	surface soil	400	400	N/A	81700	817	ug/kg
SED01295	n-Nitrosodiphenylamine	surface soil	360	360	N/A	117000000	1170000	ug/kg
SED00795	n-Nitrosodiphenylamine	surface soil	400	400	N/A	117000000	1170000	ug/kg
SED01295	Nitrobenzene	surface soil	360	360	N/A	1020000	1020000	ug/kg

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Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED00795	Nitrobenzene	surface soil	400	400	N/A	1020000	1020000	ug/kg
SED00795	Nitrite	surface soil	2.5	2.5	N/A	204000	204000	mg/kg
SED01295	Nitrite	surface soil	2.5	2.5	N/A	204000	204000	mg/kg
SED00795	Nitrate	surface soil	2.5	2.5	N/A	1000000	1000000	mg/kg
SED01295	Nitrate	surface soil	2.5	2.5	N/A	1000000	1000000	mg/kg
SED00795	Nickel	surface soil	3.3	2.84	N/A	40900	40900	mg/kg
SED01295	Nickel	surface soil	7	2.51	N/A	40900	40900	mg/kg
SED01295	Naphthalene [c]	surface soil	51	360	N/A	81800000	81800000	ug/kg
SED00795	Naphthalene [c]	surface soil	400	400	N/A	81800000	81800000	ug/kg
SED00795	Molybdenum	surface soil	3.55	3.55	N/A	10200	10200	mg/kg
SED01295	Molybdenum	surface soil	3.5	3.13	N/A	10200	10200	mg/kg
SED01295	Methylene chloride [Dichloromethane]	surface soil	11	11	N/A	76300000	763000	ug/kg
SED00795	Methylene chloride [Dichloromethane]	surface soil	12	12	N/A	76300000	763000	ug/kg
SED01295	Methoxychlor	surface soil	18	18	N/A	10200000	10200000	ug/kg
SED00795	Methoxychlor	surface soil	20	20	N/A	10200000	10200000	ug/kg
SED01295	Mercury	surface soil	0.0978	0.0978	N/A	613	613	mg/kg
SED00795	Mercury	surface soil	0.108	0.108	N/A	613	613	mg/kg
SED00795	Manganese	surface soil	53.3	0.237	N/A	66800	66800	mg/kg
SED01295	Manganese	surface soil	105	0.209	N/A	66800	66800	mg/kg
SED01295	Lithium [c]	surface soil	3.9	2.92	N/A	40900	40900	mg/kg
SED00795	Lithium [c]	surface soil	3.31	3.31	N/A	40900	40900	mg/kg
SED00795	Lead [d]	surface soil	4.7	0.473	N/A	1000	1000	mg/kg
SED01295	Lead [d]	surface soil	29.6	0.418	N/A	1000	1000	mg/kg
SED01295	Isophorone	surface soil	360	360	N/A	602000000	6020000	ug/kg
SED00795	Isophorone	surface soil	400	400	N/A	602000000	6020000	ug/kg
SED01295	Iron	surface soil	9250	1.25	N/A	613000	613000	mg/kg
SED00795	Iron	surface soil	3390	1.42	N/A	613000	613000	mg/kg
SED01295	Indeno(1,2,3-cd)pyrene	surface soil	910	360	N/A	784000	7840	ug/kg
SED00795	Indeno(1,2,3-cd)pyrene	surface soil	650	400	N/A	784000	7840	ug/kg
SED01295	Hexachloroethane	surface soil	360	360	N/A	40900000	409000	ug/kg
SED00795	Hexachloroethane	surface soil	400	400	N/A	40900000	409000	ug/kg
SED01295	Hexachlorocyclopentadiene	surface soil	360	360	N/A	13700000	13700000	ug/kg
SED00795	Hexachlorocyclopentadiene	surface soil	400	400	N/A	13700000	13700000	ug/kg

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Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED01295	Hexachlorobutadiene	surface soil	360	360	N/A	7340000	73400	ug/kg
SED00795	Hexachlorobutadiene	surface soil	400	400	N/A	7340000	73400	ug/kg
SED01295	Hexachlorobenzene	surface soil	360	360	N/A	358000	3580	ug/kg
SED00795	Hexachlorobenzene	surface soil	400	400	N/A	358000	3580	ug/kg
SED01295	Heptachlor epoxide	surface soil	1.8	1.8	N/A	62900	629	ug/kg
SED00795	Heptachlor epoxide	surface soil	2	2	N/A	62900	629	ug/kg
SED01295	Heptachlor	surface soil	1.8	1.8	N/A	127000	1270	ug/kg
SED00795	Heptachlor	surface soil	2	2	N/A	127000	1270	ug/kg
SED01295	gamma-Chlordane	surface soil	1.8	1.8	N/A	1630000	16300	ug/kg
SED00795	gamma-Chlordane	surface soil	2	2	N/A	1630000	16300	ug/kg
SED01295	gamma-BHC [Lindane]	surface soil	1.8	1.8	N/A	440000	4400	ug/kg
SED00795	gamma-BHC [Lindane]	surface soil	2	2	N/A	440000	4400	ug/kg
SED00795	Fluoride	surface soil	2.5	2.5	N/A	123000	123000	mg/kg
SED01295	Fluoride	surface soil	2.5	2.5	N/A	123000	123000	mg/kg
SED01295	Fluorene	surface soil	180	360	N/A	81800000	81800000	ug/kg
SED00795	Fluorene	surface soil	95	400	N/A	81800000	81800000	ug/kg
SED01295	Fluoranthene	surface soil	2700	360	N/A	81800000	81800000	ug/kg
SED00795	Fluoranthene	surface soil	2300	400	N/A	81800000	81800000	ug/kg
SED01295	Ethylbenzene	surface soil	11	11	N/A	204000000	204000000	ug/kg
SED00795	Ethylbenzene	surface soil	12	12	N/A	204000000	204000000	ug/kg
SED01295	Endosulfan sulfate [c]	surface soil	3.6	3.6	N/A	1000000000	12300000	ug/kg
SED00795	Endosulfan sulfate [c]	surface soil	3.9	3.9	N/A	1000000000	12300000	ug/kg
SED01295	Endosulfan sulfate [c]	surface soil	3.6	3.6	N/A	1000000000	12300000	ug/kg
SED00795	Endosulfan sulfate [c]	surface soil	3.9	3.9	N/A	1000000000	12300000	ug/kg
SED01295	Endosulfan sulfate [c]	surface soil	1.8	1.8	N/A	1000000000	12300000	ug/kg
SED00795	Endosulfan sulfate [c]	surface soil	2	2	N/A	1000000000	12300000	ug/kg
SED01295	Endosulfan sulfate [c]	surface soil	360	360	N/A	1000000000	40900000	ug/kg
SED00795	Di-n-octylphthalate	surface soil	21	400	N/A	1000000000	40900000	ug/kg
SED01295	Dimethylphthalate	surface soil	360	360	N/A	1000000000	1000000000	ug/kg
SED00795	Dimethylphthalate	surface soil	400	400	N/A	1000000000	1000000000	ug/kg
SED01295	Diethylphthalate	surface soil	360	360	N/A	1000000000	1000000000	ug/kg
SED00795	Diethylphthalate	surface soil	400	400	N/A	1000000000	1000000000	ug/kg
SED01295	Dieldrin	surface soil	3.6	3.6	N/A	35700	357	ug/kg

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Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED00795	Dieldrin	surface soil	3.9	3.9	N/A	35700	357	ug/kg
SED01295	Dibromochloromethane	surface soil	11	11	N/A	6810000	68100	ug/kg
SED00795	Dibromochloromethane	surface soil	12	12	N/A	6810000	68100	ug/kg
SED01295	Dibenzofuran	surface soil	65	360	N/A	8180000	8180000	ug/kg
SED00795	Dibenzofuran	surface soil	24	400	N/A	8180000	8180000	ug/kg
SED01295	Dibenzo(a,h)anthracene	surface soil	360	360	N/A	78400	784	ug/kg
SED00795	Dibenzo(a,h)anthracene	surface soil	250	400	N/A	78400	784	ug/kg
SED00795	Copper [c]	surface soil	6.2	0.71	N/A	75600	75600	mg/kg
SED01295	Copper [c]	surface soil	17.2	0.627	N/A	75600	75600	mg/kg
SED01295	Cobalt	surface soil	3.1	1.46	N/A	123000	123000	mg/kg
SED00795	Cobalt	surface soil	1.66	1.66	N/A	123000	123000	mg/kg
SED01295	Chrysene	surface soil	1400	360	N/A	78400000	784000	ug/kg
SED00795	Chrysene	surface soil	1200	400	N/A	78400000	784000	ug/kg
SED01295	Chromium	surface soil	12.2	0.627	N/A	8720	1020	mg/kg
SED00795	Chromium	surface soil	3.4	0.71	N/A	8720	1020	mg/kg
SED01295	Chloromethane [Methyl chloride]	surface soil	11	11	N/A	44000000	440000	ug/kg
SED00795	Chloromethane [Methyl chloride]	surface soil	12	12	N/A	44000000	440000	ug/kg
SED01295	Chloroform [Trichloromethane]	surface soil	11	11	N/A	93800000	938000	ug/kg
SED00795	Chloroform [Trichloromethane]	surface soil	12	12	N/A	93800000	938000	ug/kg
SED01295	Chloroethane	surface soil	11	11	N/A	197000000	1970000	ug/kg
SED00795	Chloroethane	surface soil	12	12	N/A	197000000	1970000	ug/kg
SED01295	Chlorobenzene	surface soil	11	11	N/A	40900000	40900000	ug/kg
SED00795	Chlorobenzene	surface soil	12	12	N/A	40900000	40900000	ug/kg
SED01295	Carbon tetrachloride	surface soil	11	11	N/A	4400000	44000	ug/kg
SED00795	Carbon tetrachloride	surface soil	12	12	N/A	4400000	44000	ug/kg
SED01295	Carbon disulfide	surface soil	11	11	N/A	204000000	204000000	ug/kg
SED00795	Carbon disulfide	surface soil	12	12	N/A	204000000	204000000	ug/kg
SED01295	Cadmium	surface soil	0.627	0.627	N/A	2040	2040	mg/kg
SED00795	Cadmium	surface soil	0.71	0.71	N/A	2040	2040	mg/kg
SED01295	Butylbenzylphthalate	surface soil	360	360	N/A	409000000	409000000	ug/kg
SED00795	Butylbenzylphthalate	surface soil	68	400	N/A	409000000	409000000	ug/kg
SED01295	Bromomethane [Methyl bromide]	surface soil	11	11	N/A	2860000	2860000	ug/kg
SED00795	Bromomethane [Methyl bromide]	surface soil	12	12	N/A	2860000	2860000	ug/kg

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Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED01295	Bromoform [Tribromomethane]	surface soil	11	11	N/A	724000	724000	ug/kg
SED00795	Bromoform [Tribromomethane]	surface soil	12	12	N/A	724000	724000	ug/kg
SED01295	Bromodichloromethane	surface soil	11	11	N/A	92300	92300	ug/kg
SED00795	Bromodichloromethane	surface soil	12	12	N/A	92300	92300	ug/kg
SED01295	bis(2-Ethylhexyl)phthalate	surface soil	110	360	N/A	40900000	409000	ug/kg
SED00795	bis(2-Ethylhexyl)phthalate	surface soil	1100	400	N/A	40900000	409000	ug/kg
SED01295	bis(2-Chloroisopropyl)ether	surface soil	360	360	N/A	8170000	81700	ug/kg
SED00795	bis(2-Chloroisopropyl)ether	surface soil	400	400	N/A	8170000	81700	ug/kg
SED01295	bis(2-Chloroethyl)ether	surface soil	360	360	N/A	520000	5200	ug/kg
SED00795	bis(2-Chloroethyl)ether	surface soil	400	400	N/A	520000	5200	ug/kg
SED01295	beta-BHC	surface soil	1.8	1.8	N/A	318000	3180	ug/kg
SED00795	beta-BHC	surface soil	2	2	N/A	318000	3180	ug/kg
SED00795	Beryllium	surface soil	0.237	0.237	N/A	133	1.33	mg/kg
SED01295	Beryllium	surface soil	0.23	0.209	N/A	133	1.33	mg/kg
SED01295	Benzo(k)fluoranthene	surface soil	920	360	N/A	7840000	78400	ug/kg
SED00795	Benzo(k)fluoranthene	surface soil	660	400	N/A	7840000	78400	ug/kg
SED01295	Benzo(b)fluoranthene	surface soil	1500	360	N/A	784000	7840	ug/kg
SED00795	Benzo(b)fluoranthene	surface soil	1400	400	N/A	784000	7840	ug/kg
SED01295	Benzo(a)pyrene	surface soil	1300	360	N/A	78400	784	ug/kg
SED00795	Benzo(a)pyrene	surface soil	1000	400	N/A	78400	784	ug/kg
SED01295	Benzo(a)anthracene	surface soil	1400	360	N/A	784000	7840	ug/kg
SED00795	Benzo(a)anthracene	surface soil	1100	400	N/A	784000	7840	ug/kg
SED01295	Benzene	surface soil	11	11	N/A	19700000	197000	ug/kg
SED00795	Benzene	surface soil	12	12	N/A	19700000	197000	ug/kg
SED00795	Barium	surface soil	15.9	2.84	N/A	134000	134000	mg/kg
SED01295	Barium	surface soil	26.4	2.51	N/A	134000	134000	mg/kg
SED00795	Arsenic	surface soil	0.463	0.463	N/A	381	3.81	mg/kg
SED01295	Arsenic	surface soil	0.69	0.429	N/A	381	3.81	mg/kg
SED01295	Aroclor-1260	surface soil	36	36	N/A	286000	2860	ug/kg
SED00795	Aroclor-1260	surface soil	39	39	N/A	286000	2860	ug/kg
SED01295	Aroclor-1254	surface soil	36	36	N/A	286000	2860	ug/kg
SED00795	Aroclor-1254	surface soil	39	39	N/A	286000	2860	ug/kg
SED01295	Aroclor-1248	surface soil	36	36	N/A	286000	2860	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED00795	Aroclor-1248	surface soil	39	39	N/A	286000	2860	ug/kg
SED01295	Aroclor-1242	surface soil	36	36	N/A	286000	2860	ug/kg
SED00795	Aroclor-1242	surface soil	39	39	N/A	286000	2860	ug/kg
SED01295	Aroclor-1232	surface soil	36	36	N/A	286000	2860	ug/kg
SED00795	Aroclor-1232	surface soil	39	39	N/A	286000	2860	ug/kg
SED01295	Aroclor-1221	surface soil	71	71	N/A	286000	2860	ug/kg
SED00795	Aroclor-1221	surface soil	79	79	N/A	286000	2860	ug/kg
SED01295	Aroclor-1016	surface soil	36	36	N/A	286000	2860	ug/kg
SED00795	Aroclor-1016	surface soil	39	39	N/A	286000	2860	ug/kg
SED00795	Antimony	surface soil	10.7	10.7	N/A	818	818	mg/kg
SED01295	Antimony	surface soil	9.4	9.4	N/A	818	818	mg/kg
SED01295	Anthracene	surface soil	430	360	N/A	613000000	613000000	ug/kg
SED00795	Anthracene	surface soil	320	400	N/A	613000000	613000000	ug/kg
SED01295	Americium-241	surface soil	0.015	0.02	N/A	209	38	pci/g
SED00795	Americium-241	surface soil	0.001	0.02	N/A	209	38	pci/g
SED01295	Aluminum	surface soil	4600	5.43	N/A	1000000	1000000	mg/kg
SED00795	Aluminum	surface soil	1290	6.15	N/A	1000000	1000000	mg/kg
SED01295	alpha-Chlordane	surface soil	1.8	1.8	N/A	1630000	16300	ug/kg
SED00795	alpha-Chlordane	surface soil	2	2	N/A	1630000	16300	ug/kg
SED01295	alpha-BHC	surface soil	1.8	1.8	N/A	90800	908	ug/kg
SED00795	alpha-BHC	surface soil	2	2	N/A	90800	908	ug/kg
SED01295	Aldrin	surface soil	1.8	1.8	N/A	33700	337	ug/kg
SED00795	Aldrin	surface soil	2	2	N/A	33700	337	ug/kg
SED01295	Acetone	surface soil	11	11	N/A	204000000	204000000	ug/kg
SED00795	Acetone	surface soil	12	12	N/A	204000000	204000000	ug/kg
SED01295	Acenaphthene	surface soil	180	360	N/A	123000000	123000000	ug/kg
SED00795	Acenaphthene	surface soil	69	400	N/A	123000000	123000000	ug/kg
SED01295	4-Nitrophenol	surface soil	890	890	N/A	16400000	16400000	ug/kg
SED00795	4-Nitrophenol	surface soil	990	990	N/A	16400000	16400000	ug/kg
SED01295	4-Methylphenol	surface soil	360	360	N/A	10200000	10200000	ug/kg
SED00795	4-Methylphenol	surface soil	400	400	N/A	10200000	10200000	ug/kg
SED01295	4-Methyl-2-pentanone [Isopropylacetone]	surface soil	11	11	N/A	164000000	164000000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED00795	4-Methyl-2-pentanone [Isopropylacetone]	surface soil	12	12	N/A	164000000	164000000	ug/kg
SED01295	4-Chloroaniline	surface soil	360	360	N/A	8180000	8180000	ug/kg
SED00795	4-Chloroaniline	surface soil	400	400	N/A	8180000	8180000	ug/kg
SED01295	4,6-Dinitro-2-methylphenol	surface soil	890	890	N/A	204000	204000	ug/kg
SED00795	4,6-Dinitro-2-methylphenol	surface soil	990	990	N/A	204000	204000	ug/kg
SED01295	4,4-Dichlorodiphenyltrichloroethane	surface soil	3.6	3.6	N/A	1680000	16800	ug/kg
SED00795	4,4-Dichlorodiphenyltrichloroethane	surface soil	3.9	3.9	N/A	1680000	16800	ug/kg
SED01295	4,4-Dichlorodiphenyldichloroethylene	surface soil	3.6	3.6	N/A	1680000	16800	ug/kg
SED00795	4,4-Dichlorodiphenyldichloroethylene	surface soil	3.9	3.9	N/A	1680000	16800	ug/kg
SED01295	4,4-Dichlorodiphenyldichloroethane	surface soil	3.6	3.6	N/A	2380000	23800	ug/kg
SED00795	4,4-Dichlorodiphenyldichloroethane	surface soil	3.9	3.9	N/A	2380000	23800	ug/kg
SED01295	3,3-Dichlorobenzidine	surface soil	360	360	N/A	1270000	12700	ug/kg
SED00795	3,3-Dichlorobenzidine	surface soil	400	400	N/A	1270000	12700	ug/kg
SED01295	2-Nitroaniline	surface soil	890	890	N/A	123000	123000	ug/kg
SED00795	2-Nitroaniline	surface soil	990	990	N/A	123000	123000	ug/kg
SED01295	2-Methylphenol	surface soil	360	360	N/A	102000000	102000000	ug/kg
SED00795	2-Methylphenol	surface soil	400	400	N/A	102000000	102000000	ug/kg
SED01295	2-Methylnaphthalene	surface soil	41	360	N/A	81800000	81800000	ug/kg
SED00795	2-Methylnaphthalene	surface soil	400	400	N/A	81800000	81800000	ug/kg
SED01295	2-Chlorophenol	surface soil	360	360	N/A	10200000	10200000	ug/kg
SED00795	2-Chlorophenol	surface soil	400	400	N/A	10200000	10200000	ug/kg
SED01295	2-Chloronaphthalene	surface soil	360	360	N/A	164000000	164000000	ug/kg
SED00795	2-Chloronaphthalene	surface soil	400	400	N/A	164000000	164000000	ug/kg
SED01295	2-Butanone [Methyl ethyl ketone]	surface soil	11	11	N/A	1000000000	1000000000	ug/kg
SED00795	2-Butanone [Methyl ethyl ketone]	surface soil	12	12	N/A	1000000000	1000000000	ug/kg
SED01295	2,6-Dinitrotoluene	surface soil	360	360	N/A	842000	8420	ug/kg
SED00795	2,6-Dinitrotoluene	surface soil	400	400	N/A	842000	8420	ug/kg
SED01295	2,4-Dinitrotoluene	surface soil	360	360	N/A	842000	8420	ug/kg
SED00795	2,4-Dinitrotoluene	surface soil	400	400	N/A	842000	8420	ug/kg
SED01295	2,4-Dinitrophenol	surface soil	890	890	N/A	409000000	409000	ug/kg
SED00795	2,4-Dinitrophenol	surface soil	990	990	N/A	409000000	409000	ug/kg
SED01295	2,4-Dimethylphenol	surface soil	360	360	N/A	4090000000	409000	ug/kg

Table 11 Residual Contamination at IHSS Group 600-2

Location	Analyte	Media	Concentration	Detection/ Reporting Limit	Background Mean +2SD	Tier I Action Level	Tier II Action Level	Unit
SED00795	2,4-Dimethylphenol	surface soil	400	400	N/A	4090000000	409000	ug/kg
SED01295	2,4-Dichlorophenol	surface soil	360	360	N/A	6130000	6130000	ug/kg
SED00795	2,4-Dichlorophenol	surface soil	400	400	N/A	6130000	6130000	ug/kg
SED01295	2,4,6-Trichlorophenol	surface soil	360	360	N/A	52000000	520000	ug/kg
SED00795	2,4,6-Trichlorophenol	surface soil	400	400	N/A	52000000	520000	ug/kg
SED01295	2,4,5-Trichlorophenol	surface soil	890	890	N/A	204000000	204000000	ug/kg
SED00795	2,4,5-Trichlorophenol	surface soil	990	990	N/A	204000000	204000000	ug/kg
SED01295	1,4-Dichlorobenzene	surface soil	360	360	N/A	23800000	238000	ug/kg
SED00795	1,4-Dichlorobenzene	surface soil	400	400	N/A	23800000	238000	ug/kg
SED01295	1,2-Dichloropropane	surface soil	11	11	N/A	8420000	84200	ug/kg
SED00795	1,2-Dichloropropane	surface soil	12	12	N/A	8420000	84200	ug/kg
SED01295	1,2-Dichloroethene (total)	surface soil	11	11	N/A	18400000	18400000	ug/kg
SED00795	1,2-Dichloroethene (total)	surface soil	12	12	N/A	18400000	18400000	ug/kg
SED01295	1,2-Dichloroethane	surface soil	11	11	N/A	6290000	62900	ug/kg
SED00795	1,2-Dichloroethane	surface soil	12	12	N/A	6290000	62900	ug/kg
SED01295	1,2-Dichlorobenzene	surface soil	360	360	N/A	184000000	184000000	ug/kg
SED00795	1,2-Dichlorobenzene	surface soil	400	400	N/A	184000000	184000000	ug/kg
SED01295	1,2,4-Trichlorobenzene	surface soil	360	360	N/A	20400000	20400000	ug/kg
SED00795	1,2,4-Trichlorobenzene	surface soil	400	400	N/A	20400000	20400000	ug/kg
SED01295	1,1-Dichloroethene	surface soil	11	11	N/A	954000	9540	ug/kg
SED00795	1,1-Dichloroethene	surface soil	12	12	N/A	954000	9540	ug/kg
SED01295	1,1-Dichloroethane	surface soil	11	11	N/A	204000000	204000000	ug/kg
SED00795	1,1-Dichloroethane	surface soil	12	12	N/A	204000000	204000000	ug/kg
SED01295	1,1,2-Trichloroethane	surface soil	11	11	N/A	10000000	100000	ug/kg
SED00795	1,1,2-Trichloroethane	surface soil	12	12	N/A	10000000	100000	ug/kg
SED01295	1,1,2,2-Tetrachloroethane	surface soil	11	11	N/A	2860000	28600	ug/kg
SED00795	1,1,2,2-Tetrachloroethane	surface soil	12	12	N/A	2860000	28600	ug/kg
SED01295	1,1,1-Trichloroethane	surface soil	11	11	N/A	40900000	40900000	ug/kg
SED00795	1,1,1-Trichloroethane	surface soil	12	12	N/A	40900000	40900000	ug/kg

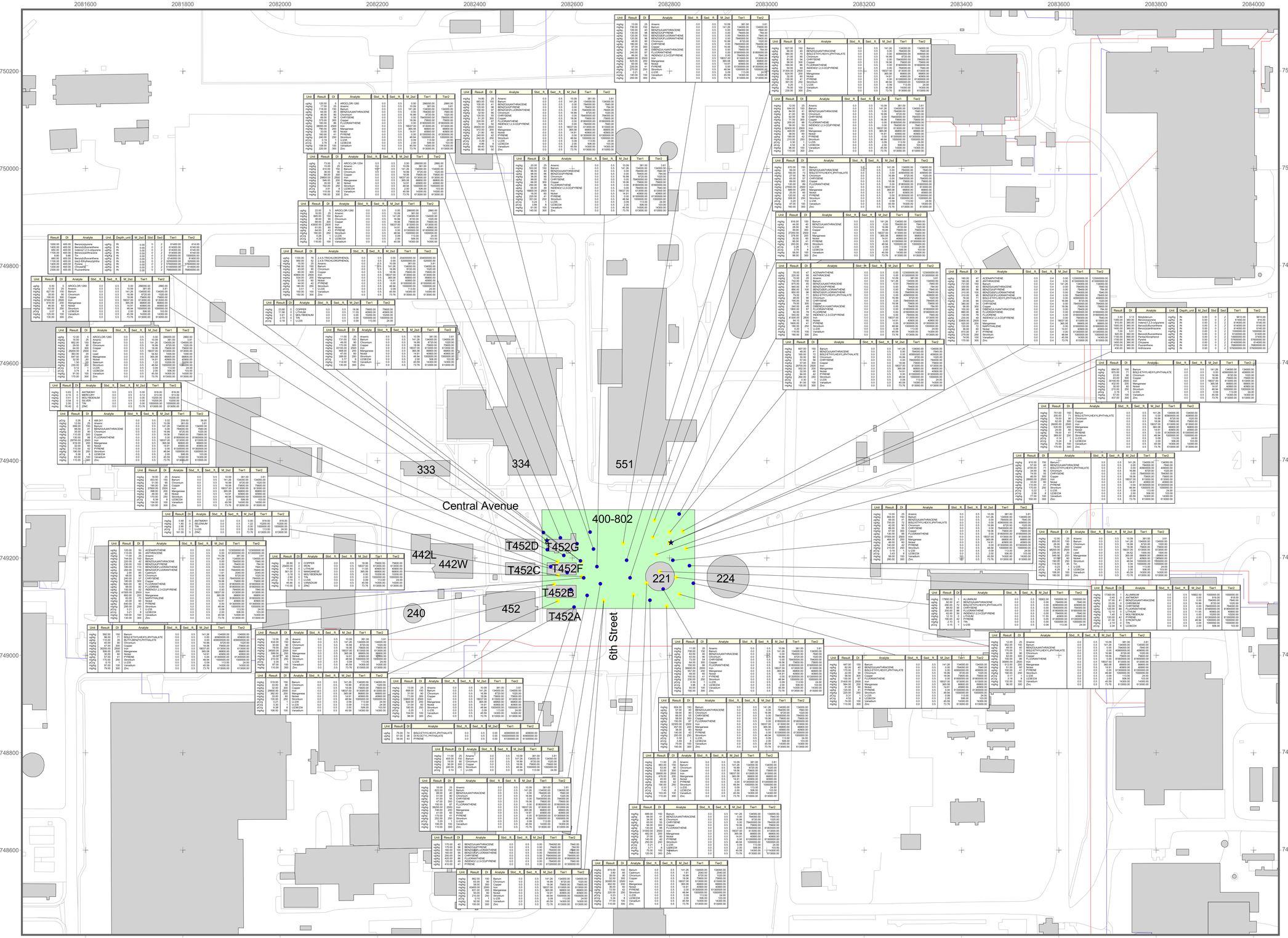

Figure 12
Residual Surface Soil Contamination at IHSS Group 600-2

KEY

- ★ Legacy Tier II AL Exceedence
- OPWL
- NPWL
- Paved Roads
- Building
- Tier II AL Exceedence
- Below Tier II AL
- PAC

Notes:
Only results with RFCA Action Levels are shown

Sbd = Sample begin depth
Sed = Sample end depth
DI = Detection/Reporting limit

m_2sd = 0.00 indicates background values were not available

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N

Scale = 1: 1150

200 0 200 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: June 2003

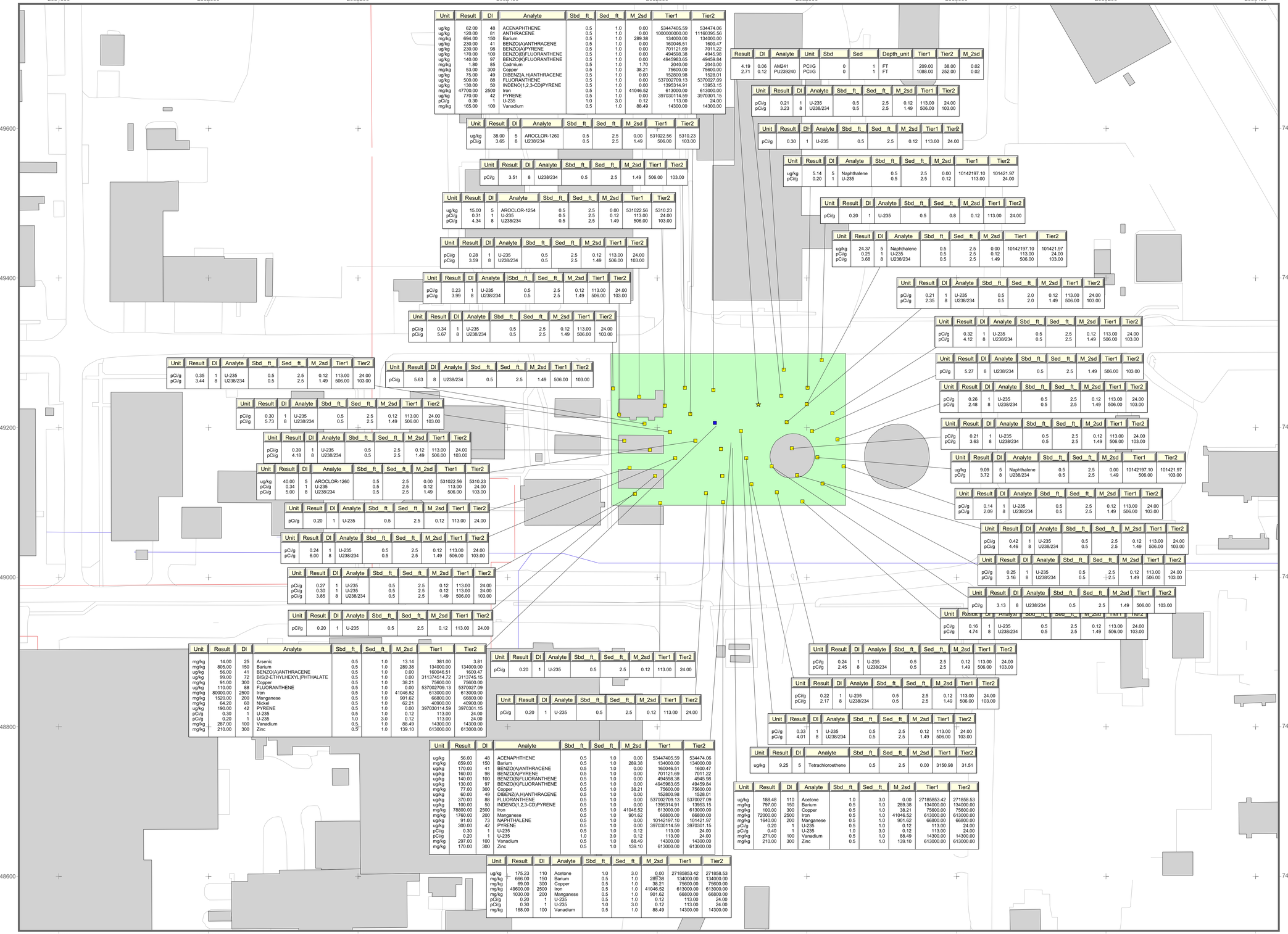
RADMS

Prepared for:

KAISER•HILL COMPANY

File: W:\Projects\Fy2003\600-2\600-2_jb_close.apr

Figure 13
Residual Subsurface Soil Contamination at IHSS Group 600-2



Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	62.00	48	ACENAPHTHENE	0.5	1.0	0.00	53447405.59	534474.06
ug/kg	120.00	81	ANTHRACENE	0.5	1.0	0.00	1000000000.00	11160395.56
mg/kg	694.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
ug/kg	230.00	41	BENZO(A)ANTHRACENE	0.5	1.0	0.00	160046.51	1600.47
ug/kg	230.00	98	BENZO(A)PYRENE	0.5	1.0	0.00	701121.69	7011.22
ug/kg	170.00	100	BENZO(B)FLUORANTHENE	0.5	1.0	0.00	494598.38	4945.98
ug/kg	140.00	97	BENZO(K)FLUORANTHENE	0.5	1.0	0.00	4945983.65	49459.84
mg/kg	1.80	85	Cadmium	0.5	1.0	1.70	2040.00	2040.00
mg/kg	53.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
ug/kg	75.00	49	DIBENZ(A,H)ANTHRACENE	0.5	1.0	0.00	152800.98	1528.01
ug/kg	500.00	88	FLUORANTHENE	0.5	1.0	0.00	537002709.13	5370027.09
ug/kg	130.00	50	INDENO(1,2,3-CD)PYRENE	0.5	1.0	0.00	1395314.91	13953.15
mg/kg	47700.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
ug/kg	770.00	42	PYRENE	0.5	1.0	0.00	397030114.59	3970301.15
pCi/g	0.30	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	165.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	38.00	5	AROCLOR-1260	0.5	2.5	0.00	531022.56	5310.23
pCi/g	3.65	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	3.51	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	15.00	5	AROCLOR-1254	0.5	2.5	0.00	531022.56	5310.23
pCi/g	0.31	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.34	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.28	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.59	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.23	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.99	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.34	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	5.67	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.35	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.44	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	5.63	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.30	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	5.73	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.39	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.18	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	40.00	5	AROCLOR-1260	0.5	2.5	0.00	531022.56	5310.23
pCi/g	0.34	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	5.00	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.24	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	6.00	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.27	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	0.30	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.85	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
mg/kg	14.00	25	Arsenic	0.5	1.0	13.14	381.00	3.81
mg/kg	805.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
ug/kg	56.00	41	BENZO(A)ANTHRACENE	0.5	1.0	0.00	160046.51	1600.47
ug/kg	99.00	72	BIS(2-ETHYLHEXYL)PHTHALATE	0.5	1.0	0.00	311374514.72	3113745.15
mg/kg	91.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
ug/kg	110.00	88	FLUORANTHENE	0.5	1.0	0.00	537002709.13	5370027.09
mg/kg	80000.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1520.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
mg/kg	64.20	60	Nickel	0.5	1.0	62.21	40900.00	40900.00
ug/kg	190.00	42	PYRENE	0.5	1.0	0.00	397030114.59	3970301.15
pCi/g	0.30	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.20	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	287.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00
mg/kg	210.00	300	Zinc	0.5	1.0	139.10	613000.00	613000.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	56.00	48	ACENAPHTHENE	0.5	1.0	0.00	53447405.59	534474.06
mg/kg	659.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
ug/kg	170.00	41	BENZO(A)ANTHRACENE	0.5	1.0	0.00	160046.51	1600.47
ug/kg	160.00	98	BENZO(A)PYRENE	0.5	1.0	0.00	701121.69	7011.22
ug/kg	140.00	100	BENZO(B)FLUORANTHENE	0.5	1.0	0.00	494598.38	4945.98
ug/kg	130.00	97	BENZO(K)FLUORANTHENE	0.5	1.0	0.00	4945983.65	49459.84
mg/kg	77.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
ug/kg	60.00	49	DIBENZ(A,H)ANTHRACENE	0.5	1.0	0.00	152800.98	1528.01
ug/kg	370.00	88	FLUORANTHENE	0.5	1.0	0.00	537002709.13	5370027.09
ug/kg	100.00	50	INDENO(1,2,3-CD)PYRENE	0.5	1.0	0.00	1395314.91	13953.15
mg/kg	78800.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1760.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
ug/kg	91.00	73	NAPHTHALENE	0.5	1.0	0.00	10142197.10	101421.97
ug/kg	300.00	42	PYRENE	0.5	1.0	0.00	397030114.59	3970301.15
pCi/g	0.30	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.20	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	297.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00
mg/kg	170.00	300	Zinc	0.5	1.0	139.10	613000.00	613000.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	175.23	110	Acetone	1.0	3.0	0.00	271858543.42	271858.53
mg/kg	666.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
mg/kg	69.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
mg/kg	49600.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1030.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
pCi/g	0.20	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.30	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	168.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00

Result	Dl	Analyte	Unit	Sbd	Sed	Depth_unit	Tier1	Tier2	M_2sd
4.19	0.06	AM241	PCI/G	0	1	FT	209.00	38.00	0.02
2.71	0.12	PU239240	PCI/G	0	1	FT	1088.00	252.00	0.02

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.21	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.23	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.30	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	5.14	5	Naphthalene	0.5	2.5	0.00	10142197.10	101421.97
pCi/g	0.20	1	U-235	0.5	2.5	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.20	1	U-235	0.5	0.8	0.12	113.00	24.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	24.37	5	Naphthalene	0.5	2.5	0.00	10142197.10	101421.97
pCi/g	0.25	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.68	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.21	1	U-235	0.5	2.0	0.12	113.00	24.00
pCi/g	2.35	8	U238/234	0.5	2.0	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.32	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.12	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	5.27	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.26	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.48	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.21	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.63	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	9.09	5	Naphthalene	0.5	2.5	0.00	10142197.10	101421.97
pCi/g	3.72	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.14	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.09	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.42	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.46	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.25	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	3.16	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	3.13	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.16	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.74	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.24	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.45	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.22	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	2.17	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
pCi/g	0.33	1	U-235	0.5	2.5	0.12	113.00	24.00
pCi/g	4.01	8	U238/234	0.5	2.5	1.49	506.00	103.00

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	9.25	5	Tetrachloroethene	0.5	2.5	0.00	3150.98	31.51

Unit	Result	Dl	Analyte	Sbd_ft	Sed_ft	M_2sd	Tier1	Tier2
ug/kg	188.48	110	Acetone	1.0	3.0	0.00	271858543.42	271858.53
mg/kg	797.00	150	Barium	0.5	1.0	289.38	134000.00	134000.00
mg/kg	100.00	300	Copper	0.5	1.0	38.21	75600.00	75600.00
mg/kg	72000.00	2500	Iron	0.5	1.0	41046.52	613000.00	613000.00
mg/kg	1640.00	200	Manganese	0.5	1.0	901.62	66800.00	66800.00
pCi/g	0.20	1	U-235	0.5	1.0	0.12	113.00	24.00
pCi/g	0.40	1	U-235	1.0	3.0	0.12	113.00	24.00
mg/kg	271.00	100	Vanadium	0.5	1.0	88.49	14300.00	14300.00
mg/kg	210.00	300	Zinc	0.5	1.0	139.10	613000.00	613000.00

KEY

- Tier II AL Exceedence
- Legacy Tier II AL Exceedence
- Below Tier II AL
- Building
- PAC
- Paved Roads
- NPWL
- OPWL

Notes:
Only results with RFCA Action Levels are shown.

Sbd = Sample begin depth
Sed = Sample end depth
Dl = Detection/Reporting limit

m_2sd = 0.00 indicates background values were not available

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N

Scale = 1:750

100 0 100 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: 3.10.03

RADMS

Prepared for:

KAISER•HILL COMPANY

File: W:\Projects\Fy2003\600-2\600-2_jb_close.apr

9.0 WASTE MANAGEMENT

Waste generated as a result of the accelerated action was limited to the following:

- Approximately 240 yards of concrete was removed and disposed as sanitary waste.
- Approximately 31 cubic feet (approximately 3'x 4'x 6" section) of concrete was removed from beneath trailer T452F and disposed as low-level waste (LLW).
- Less than one cubic yard of soil from excess sample material (for example, sample returns) was placed into a 55-gallon drum, which is being used to accumulate excess sample material from various ER projects. When full, the drum will be sampled and dispositioned in accordance with the ER Waste Management Plan (K-H 2001).
- Personal protective equipment (PPE) and plastic from characterization sampling activities was considered LLW by default. This waste was dispositioned with similar materials in accordance with the ER Waste Management Plan (K-H 2001).

Other wastes included two 20-yard rolloffs containing asphalt from the asphalt-paved areas and one 20-yard rolloff containing trees and shrubs disposed as sanitary waste.

9.1 SITE RECLAMATION

After characterization sampling results were received and discussed with the regulatory agencies through the consultative process, IHSS Group 600-2 was rough-graded and 6 inches of topsoil was distributed over the site. The topsoil was graded and then scarified, and a seed mix consisting of Canada bluegrass was spread over the site using broadcast-seeding methods. Hydromulch was applied to conserve moisture and prevent seed erosion.

9.2 NO LONGER REPRESENTATIVE SAMPLING LOCATIONS

Not applicable to this project, because no soil was remediated.

10.0 DATA QUALITY ASSESSMENT

The Data Quality Objectives (DQOs) for this project are described in the IASAP (DOE 2002). All DQOs for this project were achieved based on the following:

- Regulatory agency approved sampling program design (IASAP Addendum 02-06 [DOE 2002a);
- Collection of samples in accordance with the sampling design;
- Results of the Data Quality Assessment as described in the following sections.

10.1.1 Data Quality Assessment 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:

- EPA QA/G-4, 1994a, Guidance for the Data Quality Objective Process;
- EPA QA/G-9, 1998, Guidance for the Data Quality Assessment Process; Practical Methods for Data Analysis; and
- DOE Order 414.1A, 1999, Quality Assurance.

Verification and validation (V&V) of the 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 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review;
- EPA 540/R-94/013, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review; and
- Kaiser-Hill Company, L.L.C.(K-H) V&V Guidelines:
- General Guidelines for Data Verification and Validation, DA-GR01-v1, 1997a.
- V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v1, 1998.
- V&V Guidelines for Volatile Organics, DA-SS01-v1, 1997b.
- V&V Guidelines for Semivolatile Organics, DA-SS02-v1, 1997c.
- V&V Guidelines for Metals, DA-SS05-v1, 1997d.
- 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 CDPHE and/or U.S. EPA.

10.1.2 Verification and Validation 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 and archival are 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/MSD);
- Laboratory control samples (LCS);
- 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 hardcopy data (e.g., individual analytical data packages) are currently filed by RIN and are maintained by Kaiser-Hill Analytical Services Division; older hardcopies may reside in the Federal Center in Lakewood, Colorado. Electronic data are stored in the RFETS Soil and Water Database.

Both real and QC data, as of June 4, 2003 are included on the enclosed CDs.

10.1.3 Accuracy

The following measures of accuracy were evaluated:

- Laboratory Control Sample Evaluation;
- Surrogate Evaluation;
- Field Blanks; and
- Sample Matrix Spike Evaluation.

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 quality control (QC) results could indicate unacceptable levels of uncertainty for decision-making purposes.

Laboratory Control Sample Evaluation

The frequency of Laboratory Control Sample (LCS) measurements, relative to each laboratory batch, is given in Table 12. LCS frequency was adequate based on at least one LCS per batch. The minimum and maximum LCS results are also tabulated, by chemical, for the entire project. While not all LCS results are within tolerances, project decisions based on AL exceedances were not affected. Any qualifications of results due to LCS performance exceeding upper or lower tolerance limits are captured in the V&V flags, described in the Completeness Section.

Surrogate Evaluation

The frequency of surrogate measurements, relative to each laboratory batch, is given in Table 13. Surrogate frequency was adequate based on at least one set per sample. The minimum and maximum surrogate results are also tabulated, by chemical, for the entire project. Any qualifications of results due to surrogate results are captured in the V&V flags, described in the Completeness Section.

Field Blank Evaluation

Results of the field blank analyses are given in Table 14. 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. Several samples with U-238 were qualified as nondetects due to associated equipment rinsate blanks, where U-238 was measured at 4 pCi/L. Qualified samples include the following: BZ38-007, BZ39-006, BZ39-007, BZ39-009, BZ39-010, BZ39-013, BZ39-014, BZ39-016, BZ39-017, CA38-001, CA38-003, CA38-004, CA38-006, CA39-002, CA39-004, CA39-010, CA39-005, CA39-007, CA39-008, CA39-010, CA39-011. Otherwise, blank contamination was not detected in real samples for any contaminants that exceeded action levels within the 600-2 data set. Consequently, no significant blank contamination, or false positives, are indicated for any other samples.

Table 12
Laboratory Control Sample Evaluation

CAS No.	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
71-55-6	1,1,1-TRICHLOROETHANE	LC	92.05	113	5	5	%REC	SW-846 8260
79-34-5	1,1,2,2-TETRACHLOROETHANE	LC	89.25	130.4	5	5	%REC	SW-846 8260
79-00-5	1,1,2-TRICHLOROETHANE	LC	85.43	129.5	5	5	%REC	SW-846 8260
75-34-3	1,1-DICHLOROETHANE	LC	91.49	116	5	5	%REC	SW-846 8260
75-35-4	1,1-DICHLOROETHENE	LC	78	115.7	6	6	%REC	SW-846 8260
120-82-1	1,2,4-TRICHLOROBENZENE	LC	95.15	125.8	5	5	%REC	SW-846 8260
120-82-1	1,2,4-TRICHLOROBENZENE	LC	54	77	14	14	%REC	SW-846 8270B
107-06-2	1,2-DICHLOROETHANE	LC	90.04	112.4	5	5	%REC	SW-846 8260
78-87-5	1,2-DICHLOROPROPANE	LC	86.31	127.2	5	5	%REC	SW-846 8260
121-14-2	2,4-DINITROTOLUENE	LC	54	88	14	14	%REC	SW-846 8270B
78-93-3	2-BUTANONE	LC	94.52	185.7	5	5	%REC	SW-846 8260
95-57-8	2-CHLOROPHENOL	LC	59	82	14	14	%REC	SW-846 8270B
108-10-1	4-METHYL-2-PENTANONE	LC	72.68	102.8	5	5	%REC	SW-846 8260
83-32-9	ACENAPHTHENE	LC	51	80	14	14	%REC	SW-846 8270B
67-64-1	ACETONE	LC	132.7	200	5	5	%REC	SW-846 8260
7429-90-5	ALUMINUM	LC	92	101	4	4	%REC	SW-846 6010/6010B
7440-36-0	ANTIMONY	LC	88	94	4	4	%REC	SW-846 6010/6010B
12674-11-2	AROCLOR-1016	LC	77	91	4	4	%REC	SW-846 8082
11096-82-5	AROCLOR-1260	LC	82	91	4	4	%REC	SW-846 8082
7440-38-2	ARSENIC	LC	89	93	4	4	%REC	SW-846 6010/6010B
7440-39-3	BARIUM	LC	93	99	4	4	%REC	SW-846 6010/6010B
71-43-2	BENZENE	LC	90	116.8	6	6	%REC	SW-846 8260
7440-41-7	BERYLLIUM	LC	87	93	4	4	%REC	SW-846 6010/6010B
75-27-4	BROMODICHLOROMETHANE	LC	88.03	129.5	5	5	%REC	SW-846 8260
75-25-2	BROMOFORM	LC	88.78	120.1	5	5	%REC	SW-846 8260
74-83-9	BROMOMETHANE	LC	90.93	112.9	5	5	%REC	SW-846 8260
7440-43-9	CADMIUM	LC	88	94	4	4	%REC	SW-846 6010/6010B
75-15-0	CARBON DISULFIDE	LC	98.99	130.6	5	5	%REC	SW-846 8260
56-23-5	CARBON TETRACHLORIDE	LC	94.45	112.3	5	5	%REC	SW-846 8260
108-90-7	CHLOROBENZENE	LC	93.11	124.2	6	6	%REC	SW-846 8260
75-00-3	CHLOROETHANE	LC	92.34	115.1	5	5	%REC	SW-846 8260
67-66-3	CHLOROFORM	LC	91.21	115.3	5	5	%REC	SW-846 8260
74-87-3	CHLOROMETHANE	LC	75.14	145.4	5	5	%REC	SW-846 8260
10061-01-5	CIS-1,3-DICHLOROPROPENE	LC	90.91	127.9	5	5	%REC	SW-846 8260
7440-48-4	COBALT	LC	85	92	4	4	%REC	SW-846 6010/6010B
7440-50-8	COPPER	LC	92	98	4	4	%REC	SW-846 6010/6010B
124-48-1	DIBROMOCHLOROMETHANE	LC	88.28	122.2	5	5	%REC	SW-846 8260
100-41-4	ETHYLBENZENE	LC	94.29	126.2	5	5	%REC	SW-846 8260
87-68-3	HEXACHLOROBUTADIENE	LC	94.82	127.6	5	5	%REC	SW-846 8260
7439-89-6	IRON	LC	93	101	4	4	%REC	SW-846 6010/6010B
7439-92-1	LEAD	LC	89	95	4	4	%REC	SW-846 6010/6010B
7439-93-2	LITHIUM	LC	94	100	4	4	%REC	SW-846 6010/6010B
7439-96-5	MANGANESE	LC	87	95	4	4	%REC	SW-846 6010/6010B

Table 12
Laboratory Control Sample Evaluation

CAS No.	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
7439-97-6	MERCURY	LC	98	101	4	4	%REC	SW-846 6010/6010B
75-09-2	METHYLENE CHLORIDE	LC	88.92	114.5	5	5	%REC	SW-846 8260
7439-98-7	MOLYBDENUM	LC	83	92	4	4	%REC	SW-846 6010/6010B
91-20-3	NAPHTHALENE	LC	90.91	122.9	5	5	%REC	SW-846 8260
7440-02-0	NICKEL	LC	89	94	4	4	%REC	SW-846 6010/6010B
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	LC	56	77	14	14	%REC	SW-846 8270B
95-50-1	O-DICHLOROBENZENE	LC	93.13	120.2	5	5	%REC	SW-846 8260
106-46-7	P-DICHLOROBENZENE	LC	96.49	121.7	5	5	%REC	SW-846 8260
106-46-7	P-DICHLOROBENZENE	LC	53	72	14	14	%REC	SW-846 8270B
87-86-5	PENTACHLOROPHENOL	LC	35	72	14	14	%REC	SW-846 8270B
108-95-2	PHENOL	LC	61	83	14	14	%REC	SW-846 8270B
100-02-7	P-NITROPHENOL	LC	47	89	14	14	%REC	SW-846 8270B
129-00-0	PYRENE	LC	49	78	14	14	%REC	SW-846 8270B
7782-49-2	SELENIUM	LC	93	96	4	4	%REC	SW-846 6010/6010B
7440-22-4	SILVER	LC	91	108	4	4	%REC	SW-846 6010/6010B
7440-24-6	STRONTIUM	LC	92	97	4	4	%REC	SW-846 6010/6010B
100-42-5	STYRENE	LC	96.25	135.9	5	5	%REC	SW-846 8260
127-18-4	TETRACHLOROETHENE	LC	91.12	117.1	5	5	%REC	SW-846 8260
7440-31-5	TIN	LC	84	92	4	4	%REC	SW-846 6010/6010B
108-88-3	TOLUENE	LC	90.25	122.9	6	6	%REC	SW-846 8260
10061-02-6	TRANS-1,3-DICHLOROPROPENE	LC	90.89	128.1	5	5	%REC	SW-846 8260
79-01-6	TRICHLOROETHENE	LC	89.05	124.1	6	6	%REC	SW-846 8260
7440-62-2	VANADIUM	LC	86	95	4	4	%REC	SW-846 6010/6010B
75-01-4	VINYL CHLORIDE	LC	89.02	123.3	5	5	%REC	SW-846 8260
1330-20-7	XYLENES (TOTAL)	LC	85.94	115.6	5	5	%REC	SW-846 8260
7440-66-6	ZINC	LC	84	89	4	4	%REC	SW-846 6010/6010B

Table 13
Surrogate Recovery Summary

VOC Surrogate Recoveries				
Number of Samples	Analyte	Minimum	Maximum	Unit Code
147	1,2-DICHLOROETHANE-D4	72.62	118.9	%REC
148	4-BROMOFLUOROBENZENE	74.36	109.6	%REC
148	TOLUENE-D8	73.4	113.2	%REC
SVOC Surrogate Recoveries				
Number of Samples	Analyte	Minimum	Maximum	Unit Code
73	2-FLUOROBIPHENYL	44	79	%REC
73	2-FLUOROPHENOL	0	88	%REC
73	NITROBENZENE-D5	45	86	%REC
73	TERPHENYL-D14	45	88	%REC

Table 14
Field Blank Summary

Sample QC Code	Test Method Name	Analyte	Maximum Detected Value	Unit
RB	GAMMA	Uranium-235	0.2	pCi/g
RB	GAMMA	Uranium-238	4	pCi/g
FB	SW8260B	Toluene	2	ug/L
RB	SW8260B	Toluene	0.3	ug/L
FB	SW8260B	2-Butanone	4	ug/L
FB	SW8260B	Naphthalene	0.8	ug/L
Field Blanks (Trip, Rinse, Field) results greater than detection limits (not *U* Qualified)				

Sample Matrix Spike Evaluation

The frequency of MS measurements, relative to each laboratory batch, was adequate based on at least one MS per batch. The minimum and maximum of MS results are summarized by chemical, for the entire project in Table 15. While some of the recoveries appear to be low, results are not rejected based on MS results alone. Project decisions were not affected.

Table 15
Sample Matrix Spike Evaluation

CAS No.	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
71-55-6	1,1,1-TRICHLOROETHANE	MS	44.4	96.98	44.4	96.98	%REC	SW-846 8260
79-34-5	1,1,2,2-TETRACHLOROETHANE	MS	58.42	107	58.42	107	%REC	SW-846 8260
79-00-5	1,1,2-TRICHLOROETHANE	MS	61.98	110.7	61.98	110.7	%REC	SW-846 8260
75-34-3	1,1-DICHLOROETHANE	MS	47.42	98.1	47.42	98.1	%REC	SW-846 8260
75-35-4	1,1-DICHLOROETHENE	MS	46.62	94.31	46.62	94.31	%REC	SW-846 8260
120-82-1	1,2,4-TRICHLOROBENZENE	MS	15.29	68.79	15.29	68.79	%REC	SW-846 8260

Table 15
Sample Matrix Spike Evaluation

CAS No.	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
120-82-1	1,2,4-TRICHLOROBENZENE	MS	39	68	39	68	%REC	SW-846 8270B
107-06-2	1,2-DICHLOROETHANE	MS	60.23	100.6	60.23	100.6	%REC	SW-846 8260
78-87-5	1,2-DICHLOROPROPANE	MS	49.62	98.63	49.62	98.63	%REC	SW-846 8260
121-14-2	2,4-DINITROTOLUENE	MS	44	81	44	81	%REC	SW-846 8270B
78-93-3	2-BUTANONE	MS	48.73	126.3	7	7	%REC	SW-846 8260
95-57-8	2-CHLOROPHENOL	MS	2.8	75	11	11	%REC	SW-846 8270B
108-10-1	4-METHYL-2-PENTANONE	MS	53.52	123.7	7	7	%REC	SW-846 8260
83-32-9	ACENAPHTHENE	MS	0	74	11	11	%REC	SW-846 8270B
67-64-1	ACETONE	MS	-12.28	179.7	7	7	%REC	SW-846 8260
7429-90-5	ALUMINUM	MS	1660	4680	4	4	%REC	SW-846 6010/6010B
7440-36-0	ANTIMONY	MS	39	47	4	4	%REC	SW-846 6010/6010B
12674-11-2	AROCLOR-1016	MS	0	279	2	2	%REC	SW-846 8082
11096-82-5	AROCLOR-1260	MS	0	342	2	2	%REC	SW-846 8082
7440-38-2	ARSENIC	MS	84	92	4	4	%REC	SW-846 6010/6010B
7440-39-3	BARIUM	MS	95	116	4	4	%REC	SW-846 6010/6010B
71-43-2	BENZENE	MS	45.08	100.7	8	8	%REC	SW-846 8260
7440-41-7	BERYLLIUM	MS	85	92	4	4	%REC	SW-846 6010/6010B
75-27-4	BROMODICHLOROMETHANE	MS	37.63	100.9	7	7	%REC	SW-846 8260
75-25-2	BROMOFORM	MS	33.75	103.9	7	7	%REC	SW-846 8260
74-83-9	BROMOMETHANE	MS	20.67	95.1	7	7	%REC	SW-846 8260
7440-43-9	CADMIUM	MS	81	97	4	4	%REC	SW-846 6010/6010B
75-15-0	CARBON DISULFIDE	MS	30.56	89.19	7	7	%REC	SW-846 8260
56-23-5	CARBON TETRACHLORIDE	MS	41.9	96.62	7	7	%REC	SW-846 8260
108-90-7	CHLOROBENZENE	MS	37.25	91.73	8	8	%REC	SW-846 8260
75-00-3	CHLOROETHANE	MS	42.73	92.79	7	7	%REC	SW-846 8260
67-66-3	CHLOROFORM	MS	50.81	104.1	7	7	%REC	SW-846 8260
74-87-3	CHLOROMETHANE	MS	37.58	95.63	7	7	%REC	SW-846 8260
10061-01-5	CIS-1,3-DICHLOROPROPENE	MS	26.67	103.4	7	7	%REC	SW-846 8260
7440-48-4	COBALT	MS	84	89	4	4	%REC	SW-846 6010/6010B
7440-50-8	COPPER	MS	0	102	4	4	%REC	SW-846 6010/6010B
124-48-1	DIBROMOCHLOROMETHANE	MS	36.27	105.7	7	7	%REC	SW-846 8260
100-41-4	ETHYLBENZENE	MS	36.42	91.5	7	7	%REC	SW-846 8260
87-68-3	HEXACHLOROBUTADIENE	MS	13.94	61.92	7	7	%REC	SW-846 8260
7439-89-6	IRON	MS	0	3570	4	4	%REC	SW-846 6010/6010B
7439-92-1	LEAD	MS	85	118	4	4	%REC	SW-846 6010/6010B
7439-93-2	LITHIUM	MS	97	104	4	4	%REC	SW-846 6010/6010B
7439-96-5	MANGANESE	MS	36	291	4	4	%REC	SW-846 6010/6010B
7439-97-6	MERCURY	MS	0	100	4	4	%REC	SW-846

Table 15
Sample Matrix Spike Evaluation

CAS No.	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Test Method
								6010/6010B
75-09-2	METHYLENE CHLORIDE	MS	53.56	105.1	7	7	%REC	SW-846 8260
7439-98-7	MOLYBDENUM	MS	80	85	4	4	%REC	SW-846 6010/6010B
91-20-3	NAPHTHALENE	MS	28	82.35	7	7	%REC	SW-846 8260
7440-02-0	NICKEL	MS	87	98	4	4	%REC	SW-846 6010/6010B
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	MS	42	79	11	11	%REC	SW-846 8270B
95-50-1	O-DICHLOROBENZENE	MS	29.65	88.38	7	7	%REC	SW-846 8260
106-46-7	P-DICHLOROBENZENE	MS	28.13	84.38	7	7	%REC	SW-846 8260
106-46-7	P-DICHLOROBENZENE	MS	38	66	11	11	%REC	SW-846 8270B
87-86-5	PENTACHLOROPHENOL	MS	0	66	11	11	%REC	SW-846 8270B
108-95-2	PHENOL	MS	24	73	11	11	%REC	SW-846 8270B
100-02-7	P-NITROPHENOL	MS	0	88	11	11	%REC	SW-846 8270B
129-00-0	PYRENE	MS	2.9	84	11	11	%REC	SW-846 8270B
7782-49-2	SELENIUM	MS	92	96	4	4	%REC	SW-846 6010/6010B
7440-22-4	SILVER	MS	95	107	4	4	%REC	SW-846 6010/6010B
7440-24-6	STRONTIUM	MS	87	178	4	4	%REC	SW-846 6010/6010B
100-42-5	STYRENE	MS	30.83	84.88	7	7	%REC	SW-846 8260
127-18-4	TETRACHLOROETHENE	MS	35.88	91.71	7	7	%REC	SW-846 8260
7440-31-5	TIN	MS	80	88	4	4	%REC	SW-846 6010/6010B
108-88-3	TOLUENE	MS	40.75	93.71	8	8	%REC	SW-846 8260
10061-02-6	TRANS-1,3-DICHLOROPROPENE	MS	38.81	104.8	7	7	%REC	SW-846 8260
79-01-6	TRICHLOROETHENE	MS	44	95.65	8	8	%REC	SW-846 8260
7440-62-2	VANADIUM	MS	85	103	4	4	%REC	SW-846 6010/6010B
75-01-4	VINYL CHLORIDE	MS	38.85	89.23	7	7	%REC	SW-846 8260
1330-20-7	XYLENES (TOTAL)	MS	38.51	96.32	7	7	%REC	SW-846 8260
7440-66-6	ZINC	MS	70	158	4	4	%REC	SW-846 6010/6010B

10.1.4 Precision

Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSD. Adequate frequency of MSD measurements is indicated by at least one MSD in each laboratory batch. Table 16 indicates that MSD frequencies were adequate. While relatively high variability is reflected for those contaminants with greater than 35% RPD, repeatability of real results were consistently below action levels. Consequently, project decisions are not altered or qualified due to the MSD results.

Table 16
Sample Matrix Spike Duplicate Evaluation

Analyte Name	Number of Sample Pairs	Number of Laboratory Batches	Max RPD (%)
1,1,1-TRICHLOROETHANE	7	7	13
1,1,2,2-TETRACHLOROETHANE	7	7	10
1,1,2-TRICHLOROETHANE	7	7	11
1,1-DICHLOROETHANE	7	7	18
1,1-DICHLOROETHENE	8	8	14
1,2,4-TRICHLOROBENZENE	7	7	35
1,2,4-TRICHLOROBENZENE	11	11	30
1,2-DICHLOROETHANE	7	7	16
1,2-DICHLOROPROPANE	7	7	17
2,4-DINITROTOLUENE	11	11	26
2-BUTANONE	7	7	24
2-CHLOROPHENOL	11	11	67
4-METHYL-2-PENTANONE	7	7	12
ACENAPHTHENE	10	10	26
ACETONE	6	6	501
ALUMINUM	4	4	68
ANTIMONY	4	4	9
ARSENIC	4	4	2
BARIUM	4	4	8
BENZENE	8	8	16
BERYLLIUM	4	4	4
BROMODICHLOROMETHANE	7	7	17
BROMOFORM	7	7	14
BROMOMETHANE	7	7	22
CARBON DISULFIDE	7	7	14
CARBON TETRACHLORIDE	7	7	12
CHLOROBENZENE	8	8	16
CHLOROETHANE	7	7	16
CHLOROFORM	7	7	18
CHLOROMETHANE	7	7	14
CIS-1,3-DICHLOROPROPENE	7	7	17
COBALT	4	4	5
COPPER	3	3	11
DIBROMOCHLOROMETHANE	7	7	14
ETHYLBENZENE	7	7	15
HEXACHLOROBUTADIENE	7	7	35
IRON	3	3	71
LEAD	4	4	14
LITHIUM	4	4	4

Table 16
Sample Matrix Spike Duplicate Evaluation

Analyte Name	Number of Sample Pairs	Number of Laboratory Batches	Max RPD (%)
MANGANESE	4	4	134
MERCURY	3	3	15
METHYLENE CHLORIDE	7	7	19
MOLYBDENUM	4	4	4
NAPHTHALENE	7	7	23
NICKEL	4	4	8
PENTACHLOROPHENOL	10	10	48
PHENOL	11	11	27
PYRENE	11	11	140
SELENIUM	4	4	2
SILVER	4	4	6
STRONTIUM	4	4	25
TETRACHLOROETHENE	7	7	16
TIN	4	4	2
TOLUENE	8	8	16
TRANS-1,3-DICHLOROPROPENE	7	7	13
TRICHLOROETHENE	8	8	14
VANADIUM	4	4	17
VINYL CHLORIDE	7	7	13
ZINC	4	4	35

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. Table 17 indicates that sampling frequencies were adequate. A common metric for evaluating precision is the relative percent difference (RPD) value; RPD values are given in Table 18. Ideally, RPDs of less than 35 percent (in soil) indicate satisfactory precision. While relatively high variability is reflected for those contaminants with greater than 35 percent RPD, repeatability of real results was consistently below action levels for those contaminants. Consequently, project decisions are not altered due to the field duplicate results.

Table 17
Field Duplicate Sample Frequency

Test Method Name	Sample Code	Number of Samples	% Duplicate Samples
GAMMA SPECTROSCOPY	REAL	51	16
GAMMA SPECTROSCOPY	DUP	8	
SW-846 6010/6010B	REAL	13	15
SW-846 6010/6010B	DUP	2	
SW-846 6200	REAL	49	14
SW-846 6200	DUP	7	
SW-846 8082	REAL	8	25
SW-846 8082	DUP	2	
SW-846 8260	REAL	60	15
SW-846 8260	DUP	9	
SW-846 8270B	REAL	57	15
SW-846 8270B	DUP	8	

Table 18
RPD Evaluation

Analyte	Max of RPD %
1,1,1-TRICHLOROETHANE	14
1,1,2,2-TETRACHLOROETHANE	14
1,1,2-TRICHLOROETHANE	14
1,1-DICHLOROETHANE	14
1,1-DICHLOROETHENE	14
1,2,4-TRICHLOROBENZENE	199
1,2-DICHLOROETHANE	14
1,2-DICHLOROPROPANE	14
2,4,5-TRICHLOROPHENOL	3
2,4,6-TRICHLOROPHENOL	3
2,4-DICHLOROPHENOL	3
2,4-DIMETHYLPHENOL	3
2,4-DINITROPHENOL	6
2,4-DINITROTOLUENE	3
2,6-DINITROTOLUENE	3
2-BUTANONE	80
2-CHLORONAPHTHALENE	3
2-CHLOROPHENOL	3
2-NITROANILINE	6
4-CHLOROANILINE	3
4-METHYL-2-PENTANONE	14
ACENAPHTHENE	3
ACETONE	71

Table 18
RPD Evaluation

Analyte	Max of RPD %
ALUMINUM	5
ANTHRACENE	3
ANTIMONY	79
ARSENIC	31
BARIUM	19
BENZENE	14
BENZO(A)ANTHRACENE	143
BENZO(A)PYRENE	111
BENZO(B)FLUORANTHENE	72
BENZO(K)FLUORANTHENE	89
BENZOIC ACID	6
BERYLLIUM	4
BIS(2-ETHYLHEXYL)PHTHALATE	142
BROMODICHLOROMETHANE	14
BROMOFORM	14
BROMOMETHANE	14
BUTYLBENZYLPHTHALATE	171
CARBON DISULFIDE	42
CARBON TETRACHLORIDE	14
CHLOROBENZENE	14
CHLOROETHANE	14
CHLOROFORM	14
CHLOROMETHANE	14
CHRYSENE	141
CIS-1,3-DICHLOROPROPENE	14
COBALT	9
COPPER	29
DIBENZ(A,H)ANTHRACENE	3
DIBENZOFURAN	3
DIBROMOCHLOROMETHANE	14
ETHYLBENZENE	14
FLUORANTHENE	105
FLUORENE	3
HEXACHLOROBENZENE	3
HEXACHLOROBUTADIENE	199
HEXACHLOROCYCLOPENTADIENE	1
HEXACHLOROETHANE	3
INDENO(1,2,3-CD)PYRENE	145
IRON	16
ISOPHORONE	3
LEAD	86
LITHIUM	3
MANGANESE	39
MERCURY	179

Table 18
RPD Evaluation

Analyte	Max of RPD %
METHYLENE CHLORIDE	14
MOLYBDENUM	166
NAPHTHALENE	199
NICKEL	16
NITROBENZENE	3
N-NITROSODIPHENYLAMINE	3
PENTACHLOROPHENOL	6
PHENOL	3
PYRENE	98
SELENIUM	45
SILVER	2
STRONTIUM	17
TETRACHLOROETHENE	14
TIN	59
TOLUENE	61
TRANS-1,3-DICHLOROPROPENE	14
TRICHLOROETHENE	14
VANADIUM	44
VINYL CHLORIDE	14
ZINC	22

Completeness

Based on original project DQOs, a minimum of 25 percent of 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. Table 19 shows 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 analyte group. Although the frequency of validation for the project is less than 25 percent for several of the analytical suites, the validation goal of 25 percent for the ER program as a whole is currently in compliance. Because the same laboratories were used for this project, it is inferred that the project's analytical records are adequate of adequate quality for making decisions.

10.1.5 Sensitivity

Reporting limits, in units of ug/kg for organics, mg/kg for metals, and pCi/g for radionuclides, were compared with proposed RFCA WRW and Ecological Receptor ALs. Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions. "Adequate" sensitivity is defined as a reporting limit less than an analyte's associated AL, typically less than one-half the AL.

10.1.6 Summary of Data Quality

The RPDs greater than 35 percent for field duplicate samples exceeded project goals. However, all real samples for those contaminants in excess of the RPD goal were repeatable at concentrations well below their respective action levels; consequently, project decisions were not affected. Although compliance of the project validation frequency is less than 25 percent, the ER program goal of 25 percent (frequency) per analytical suite is compliance. No records were rejected. If additional V&V information is received, IHSS Group 600-2 records will be updated in the Soil Water Database. Data qualified as a result of additional data will be assessed as part of the Comprehensive Risk Assessment process. Data collected and used for IHSS Group 600-2 is adequate for decision-making.

Table 19
Validation and Verification Summary

Validation Code	Number of Records	Radionuclides	Metals	PCBs	SVOCs	VOCs
No V&V	5248	1536	3712	0	0	0
1	17	0	0	0	0	17
J	23	0	23	0	0	0
J1	178	0	175	3	0	0
V	1397	0	236	1161	0	0
V1	4636	0	1076	95	387	3078
JB1	3	0	0	0	3	0
UJ	3	0	3	0	0	0
UJ1	83	0	56	27	0	0
Total	11588	1536	5281	1286	390	3095
Total Validated	1423	0	262	1161	0	0
% Validated	12.28%	0.00%	4.96%	90.28%	0.00%	0.00%
Total Verified	6340	0	1569	1286	390	3095
% Verified	54.71%	0.00%	29.71%	100.00%	100.00%	100.00%
% Rejected	0%	0%	0%	0%	0%	0%

KEY:
1, V1 - Verified
J, J1 - Estimated
UJ1 - Estimated detection limit
V - Validated

11.0 REFERENCES

DOE, 1992 - 2002, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, CDPHE and EPA, 1996, Final Rocky Flats Cleanup Agreement, Rocky Flats Environmental Technology Site, Golden Colorado, June.

DOE, 1999, RFCA Standard Operating Protocol for Recycling Concrete, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2000a, Industrial Area Data Summary Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2000b, RFCA Standard Operating Protocol for Facility Disposition, Rocky Flats Environmental Technology Site, Golden, Colorado, August.

DOE, 2001, Industrial Area Sampling and Analysis Plan (IASAP), Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, 2002a, Industrial Area Sampling and Analysis Plan Addendum #IA-02-06, Rocky Flats Environmental Technology Site, Golden, Colorado, July.

DOE, 2002b, RFCA Standard Operating Protocol for Routine Soil Remediation (ER RSOP), Rocky Flats Environmental Technology Site, Golden, Colorado.

DOE, 2002c, Environmental Restoration RFCA Standard Operating Protocol Notification #02-07, Rocky Flats Environmental Technology Site, Golden, Colorado, July.

DOE, 2002d, Industrial Area Sampling and Analysis Plan Addendum #IA-02-05, Rocky Flats Environmental Technology Site, Golden, Colorado, April.

DOE, 2002e, RFCA Standard Operating Protocol for Facility Component Removal, Size Reduction, and Decontamination Activities, Rocky Flats Environmental Technology Site, Golden, Colorado.

DOE, CDPHE and EPA, 2002f, Proposed Rocky Flats Cleanup Agreement (RFCA) Modification, Rocky Flats Environmental Technology Site, Golden, Colorado, November.

K-H, 2001, Environmental Restoration Program Waste Management Plan, Rocky Flats Environmental Technology Site, Golden, Colorado.

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APPENDIX A

WILDLIFE REFUGE WORKER/ECOLOGICAL RECEPTOR ACTION LEVEL COMPARISON TABLE

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-008	2,4,5-Trichlorophenol	0	0.5	1100.00	78	NA	204000000.00	204000000.00	102000000.00	—	ug/kg
BZ39-008	2,4,6-Trichlorophenol	0	0.5	950.00	52	NA	52000000.00	520000.00	3470000.00	—	ug/kg
BZ38-011	2-Methyl-phthalene	0.5	1	380.00	62	NA	—	—	20400000.00	—	ug/kg
BZ39-021	2-Methyl-phthalene	0.5	1	81.00	62	NA	—	—	20400000.00	—	ug/kg
BZ38-007	Acenaphthene	0	0.5	120.00	50	NA	123000000.00	123000000.00	40800000.00	—	ug/kg
BZ38-011	Acenaphthene	0.5	1	56.00	48	NA	53447405.59	534474.06	40800000.00	—	ug/kg
BZ39-022	Acenaphthene	0.5	1	62.00	48	NA	53447405.59	534474.06	40800000.00	—	ug/kg
CA39-012	Acenaphthene	0	0.4	160.00	47	NA	123000000.00	123000000.00	40800000.00	—	ug/kg
CA39-013	Acenaphthene	0	0.5	78.00	47	NA	123000000.00	123000000.00	40800000.00	—	ug/kg
BZ38-010	Acetone	1	3	175.23	110	NA	27185853.42	271858.53	102000000.00	211000.00	ug/kg
BZ39-020	Acetone	1	3	188.48	110	NA	27185853.42	271858.53	102000000.00	211000.00	ug/kg
CA38-005	Aluminum	0	0.5	17800.00	1.3	16902.00	1000000.00	1000000.00	228000.00	—	mg/kg
CA39-003	Aluminum	0	0.5	17300.00	1.3	16902.00	1000000.00	1000000.00	228000.00	—	mg/kg
BZ39-006	Americium-241	0	0.5	0.26	4	0.02	209.00	38.00	76.00	—	pCi/g
BZ38-007	Anthracene	0	0.5	110.00	84	NA	613000000.00	613000000.00	204000000.00	—	ug/kg
BZ39-022	Anthracene	0.5	1	120.00	81	NA	1000000000.00	11160395.56	204000000.00	—	ug/kg
CA39-012	Anthracene	0	0.4	160.00	80	NA	613000000.00	613000000.00	204000000.00	—	ug/kg
CA39-013	Anthracene	0	0.5	220.00	80	NA	613000000.00	613000000.00	204000000.00	—	ug/kg
BZ39-029	Antimony	0	0.5	0.83	0.46	NA	818.00	818.00	409.00	—	mg/kg
BZ39-031	Antimony	0	0.5	0.48	0.46	NA	818.00	818.00	409.00	—	mg/kg
CA39-003	Antimony	0	0.5	0.45	0.44	NA	818.00	818.00	409.00	—	mg/kg
BZ39-014	Aroclor-1254	0	0.5	73.00	4.9	NA	286000.00	2860.00	12400.00	371,000	ug/kg
BZ39-014	Aroclor-1254	0.5	2.5	15.00	4.8	NA	531022.56	5310.23	12400.00	371,000	ug/kg
BZ39-011	Aroclor-1260	0	0.5	22.00	5.2	NA	286000.00	2860.00	12400.00	—	ug/kg
BZ39-007	Aroclor-1260	0	0.5	12.00	5	NA	286000.00	2860.00	12400.00	—	ug/kg
BZ39-010	Aroclor-1260	0	0.5	6.50	5.2	NA	286000.00	2860.00	12400.00	—	ug/kg
BZ39-017	Aroclor-1260	0	0.5	120.00	4.9	NA	286000.00	2860.00	12400.00	—	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-016	Aroclor-1260	0.5	2.5	40.00	5.3	NA	531022.56	5310.23	12400.00	—	ug/kg
BZ39-017	Aroclor-1260	0.5	2.5	38.00	5.2	NA	531022.56	5310.23	12400.00	—	ug/kg
BZ39-008	Arsenic	0	0.5	15.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-011	Arsenic	0	0.5	16.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-018	Arsenic	0	0.5	14.80	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-009	Arsenic	0	0.5	18.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-014	Arsenic	0	0.5	15.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ38-007	Arsenic	0	0.5	11.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-017	Arsenic	0	0.5	17.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-010	Arsenic	0	0.5	12.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-013	Arsenic	0	0.5	11.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-006	Arsenic	0	0.5	12.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-016	Arsenic	0	0.5	20.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-007	Arsenic	0	0.5	14.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
CA39-007	Arsenic	0	0.5	13.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
CA39-010	Arsenic	0	0.5	12.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
CA38-006	Arsenic	0	0.5	12.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
CA38-003	Arsenic	0	0.5	11.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ38-013	Arsenic	0	0.5	12.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
CA38-000	Arsenic	0	0.5	11.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-021	Arsenic	0.5	1	14.00	25	13.14	381.00	3.81	22.20	21.6	mg/kg-dry
BZ38-009	Arsenic	0	0.5	16.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ38-006	Arsenic	0	0.5	11.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ38-005	Arsenic	0	0.5	12.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ38-004	Arsenic	0	0.5	13.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
CA39-013	Arsenic	0	0.5	15.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry
BZ39-024	Arsenic	0	0.5	13.00	25	10.09	381.00	3.81	22.20	21.6	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-008	Barium	0	0.5	746.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-011	Barium	0	0.5	665.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-018	Barium	0	0.5	683.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-009	Barium	0	0.5	453.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-014	Barium	0	0.5	410.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-007	Barium	0	0.5	744.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-017	Barium	0	0.5	718.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-010	Barium	0	0.5	627.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-013	Barium	0	0.5	731.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-006	Barium	0	0.5	699.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-016	Barium	0	0.5	553.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-007	Barium	0	0.5	662.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-004	Barium	0	0.5	751.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-007	Barium	0	0.5	664.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-010	Barium	0	0.5	655.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA38-006	Barium	0	0.5	552.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA38-004	Barium	0	0.5	447.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA38-003	Barium	0	0.5	708.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA38-001	Barium	0	0.5	689.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg
CA39-002	Barium	0	0.5	607.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-005	Barium	0	0.5	816.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-008	Barium	0	0.5	694.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-011	Barium	0	0.5	610.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-001	Barium	0	0.5	670.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-013	Barium	0	0.5	644.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-012	Barium	0	0.5	674.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA38-000	Barium	0	0.5	663.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA38-002	Barium	0	0.5	604.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-010	Barium	0.5	1	666.00	150	289.38	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-011	Barium	0.5	1	659.00	150	289.38	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-020	Barium	0.5	1	797.00	150	289.38	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-021	Barium	0.5	1	805.00	150	289.38	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-022	Barium	0.5	1	694.00	150	289.38	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-009	Barium	0	0.5	622.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-A08	Barium	0	0.5	862.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-006	Barium	0	0.5	405.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-005	Barium	0	0.5	634.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-002	Barium	0	0.5	519.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-003	Barium	0	0.5	592.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ38-004	Barium	0	0.5	668.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-012	Barium	0	0.4	731.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-013	Barium	0	0.5	742.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-024	Barium	0	0.5	736.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
BZ39-025	Barium	0	0.5	827.00	150	141.26	134000.00	134000.00	26400.00	—	mg/kg-dry
CA39-003	Benzo(A)Anthracene	0	0.5	57.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ38-007	Benzo(A)Anthracene	0	0.5	220.00	42	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-018	Benzo(A)Anthracene	0	0.5	100.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-006	Benzo(A)Anthracene	0	0.5	48.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-016	Benzo(A)Anthracene	0	0.5	96.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-017	Benzo(A)Anthracene	0	0.5	64.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA38-001	Benzo(A)Anthracene	0	0.5	66.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA38-003	Benzo(A)Anthracene	0	0.5	83.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA38-004	Benzo(A)Anthracene	0	0.5	62.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA38-006	Benzo(A)Anthracene	0	0.5	49.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-007	Benzo(A)Anthracene	0	0.5	69.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA39-002	Benzo(A)Anthracene	0	0.5	48.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA39-005	Benzo(A)Anthracene	0	0.5	44.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA39-011	Benzo(A)Anthracene	0	0.5	57.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ38-008	Benzo(A)Anthracene	0	0.5	170.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ38-009	Benzo(A)Anthracene	0	0.5	89.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ38-011	Benzo(A)Anthracene	0.5	1	170.00	41	NA	160046.51	1600.47	34900.00	800,000	ug/kg
BZ38-013	Benzo(A)Anthracene	0	0.5	84.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-021	Benzo(A)Anthracene	0.5	1	56.00	41	NA	160046.51	1600.47	34900.00	800,000	ug/kg
BZ39-022	Benzo(A)Anthracene	0.5	1	230.00	41	NA	160046.51	1600.47	34900.00	800,000	ug/kg
CA38-002	Benzo(A)Anthracene	0	0.5	57.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA39-001	Benzo(A)Anthracene	0	0.5	59.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA39-012	Benzo(A)Anthracene	0	0.4	330.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA39-013	Benzo(A)Anthracene	0	0.5	870.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-024	Benzo(A)Anthracene	0	0.5	100.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ39-025	Benzo(A)Anthracene	0	0.5	66.00	40	NA	784000.00	7840.00	34900.00	800,000	ug/kg
CA38-005	Benzo(A)Anthracene	0	0.5	82.00	41	NA	784000.00	7840.00	34900.00	800,000	ug/kg
BZ38-007	Benzo(A)Pyrene	0	0.5	230.00	100	NA	78400.00	784.00	3490.00	25,700	ug/kg
BZ39-018	Benzo(A)Pyrene	0	0.5	120.00	98	NA	78400.00	784.00	3490.00	25,700	ug/kg
BZ39-016	Benzo(A)Pyrene	0	0.5	98.00	96	NA	78400.00	784.00	3490.00	25,700	ug/kg
BZ38-008	Benzo(A)Pyrene	0	0.5	170.00	96	NA	78400.00	784.00	3490.00	25,700	ug/kg
BZ38-011	Benzo(A)Pyrene	0.5	1	160.00	98	NA	701121.69	7011.22	3490.00	25,700	ug/kg
BZ39-022	Benzo(A)Pyrene	0.5	1	230.00	98	NA	701121.69	7011.22	3490.00	25,700	ug/kg
CA39-012	Benzo(A)Pyrene	0	0.4	360.00	96	NA	78400.00	784.00	3490.00	25,700	ug/kg
CA39-013	Benzo(A)Pyrene	0	0.5	940.00	97	NA	78400.00	784.00	3490.00	25,700	ug/kg
BZ39-024	Benzo(A)Pyrene	0	0.5	130.00	98	NA	78400.00	784.00	3490.00	25,700	ug/kg
BZ38-007	Benzo(B)Fluoranthene	0	0.5	180.00	110	NA	784000.00	7840.00	34900.00	1,010,000	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-008	Benzo(B)Fluoranthene	0	0.5	160.00	100	NA	784000.00	7840.00	34900.00	1,010,000	ug/kg
BZ38-011	Benzo(B)Fluoranthene	0.5	1	140.00	100	NA	494598.38	4945.98	34900.00	1,010,000	ug/kg
BZ39-022	Benzo(B)Fluoranthene	0.5	1	170.00	100	NA	494598.38	4945.98	34900.00	1,010,000	ug/kg
CA39-012	Benzo(B)Fluoranthene	0	0.4	310.00	100	NA	784000.00	7840.00	34900.00	1,010,000	ug/kg
CA39-013	Benzo(B)Fluoranthene	0	0.5	890.00	100	NA	784000.00	7840.00	34900.00	1,010,000	ug/kg
BZ39-024	Benzo(B)Fluoranthene	0	0.5	120.00	100	NA	784000.00	7840.00	34900.00	1,010,000	ug/kg
BZ38-007	Benzo(K)Fluoranthene	0	0.5	200.00	100	NA	7840000.00	78400.00	349000.00	1,010,000	ug/kg
BZ39-018	Benzo(K)Fluoranthene	0	0.5	100.00	97	NA	7840000.00	78400.00	349000.00	1,010,000	ug/kg
BZ38-008	Benzo(K)Fluoranthene	0	0.5	160.00	95	NA	7840000.00	78400.00	349000.00	1,010,000	ug/kg
BZ38-011	Benzo(K)Fluoranthene	0.5	1	130.00	97	NA	4945983.65	49459.84	349000.00	1,010,000	ug/kg
BZ39-022	Benzo(K)Fluoranthene	0.5	1	140.00	97	NA	4945983.65	49459.84	349000.00	1,010,000	ug/kg
CA39-012	Benzo(K)Fluoranthene	0	0.4	310.00	95	NA	7840000.00	78400.00	349000.00	1,010,000	ug/kg
CA39-013	Benzo(K)Fluoranthene	0	0.5	850.00	96	NA	7840000.00	78400.00	349000.00	1,010,000	ug/kg
BZ39-024	Benzo(K)Fluoranthene	0	0.5	120.00	96	NA	7840000.00	78400.00	349000.00	1,010,000	ug/kg
CA38-005	Bis(2-Ethylhexyl)Phthalate	0	0.5	290.00	72	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA39-004	Bis(2-Ethylhexyl)Phthalate	0	0.5	200.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA38-004	Bis(2-Ethylhexyl)Phthalate	0	0.5	170.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA38-006	Bis(2-Ethylhexyl)Phthalate	0	0.5	170.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA39-007	Bis(2-Ethylhexyl)Phthalate	0	0.5	750.00	72	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA39-002	Bis(2-Ethylhexyl)Phthalate	0	0.5	160.00	72	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA39-008	Bis(2-Ethylhexyl)Phthalate	0	0.5	970.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA39-011	Bis(2-Ethylhexyl)Phthalate	0	0.5	4700.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
BZ39-021	Bis(2-Ethylhexyl)Phthalate	0.5	1	99.00	72	NA	311374514.72	3113745.15	1970000.00	—	ug/kg
CA39-001	Bis(2-Ethylhexyl)Phthalate	0	0.5	160.00	73	NA	40900000.00	409000.00	1970000.00	—	ug/kg
BZ38-003	Bis(2-Ethylhexyl)Phthalate	0	0.5	96.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
BZ38-A04	Bis(2-Ethylhexyl)Phthalate	0	0.5	75.00	74	NA	40900000.00	409000.00	1970000.00	—	ug/kg
CA39-012	Bis(2-Ethylhexyl)Phthalate	0	0.4	76.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-013	Bis(2-Ethylhexyl)Phthalate	0	0.5	79.00	71	NA	40900000.00	409000.00	1970000.00	—	ug/kg
BZ39-025	Bis(2-Ethylhexyl)Phthalate	0	0.5	380.00	70	NA	40900000.00	409000.00	1970000.00	—	ug/kg
BZ38-003	Butylbenzylphthalate	0	0.5	110.00	35	NA	409000000.00	409000000.00	147000000.00	—	ug/kg
BZ38-007	Cadmium	0	0.5	2.90	85	1.61	2040.00	2040.00	962.00	—	mg/kg-dry
BZ38-012	Cadmium	0	0.5	3.80	85	1.61	2040.00	2040.00	962.00	—	mg/kg-dry
BZ39-022	Cadmium	0.5	1	1.80	85	1.70	2040.00	2040.00	962.00	—	mg/kg-dry
CA39-003	Chromium	0	0.5	23.00	0.055	16.99	8720.00	1020.00	268.00	—	mg/kg
BZ39-008	Chromium	0	0.5	43.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-011	Chromium	0	0.5	38.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-018	Chromium	0	0.5	32.50	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-009	Chromium	0	0.5	51.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-014	Chromium	0	0.5	36.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-007	Chromium	0	0.5	48.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-017	Chromium	0	0.5	46.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-010	Chromium	0	0.5	35.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-013	Chromium	0	0.5	49.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-006	Chromium	0	0.5	35.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-016	Chromium	0	0.5	36.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-007	Chromium	0	0.5	29.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-004	Chromium	0	0.5	19.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-007	Chromium	0	0.5	42.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-010	Chromium	0	0.5	26.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-006	Chromium	0	0.5	50.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-004	Chromium	0	0.5	22.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-003	Chromium	0	0.5	43.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-001	Chromium	0	0.5	34.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg
CA39-002	Chromium	0	0.5	30.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-005	Chromium	0	0.5	28.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-008	Chromium	0	0.5	23.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-011	Chromium	0	0.5	34.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-001	Chromium	0	0.5	27.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-013	Chromium	0	0.5	41.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-012	Chromium	0	0.5	39.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-000	Chromium	0	0.5	53.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-002	Chromium	0	0.5	59.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-009	Chromium	0	0.5	51.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-A08	Chromium	0	0.5	63.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-006	Chromium	0	0.5	19.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-005	Chromium	0	0.5	30.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-002	Chromium	0	0.5	33.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-003	Chromium	0	0.5	40.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ38-004	Chromium	0	0.5	31.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-012	Chromium	0	0.4	24.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA39-013	Chromium	0	0.5	48.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-024	Chromium	0	0.5	48.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
BZ39-025	Chromium	0	0.5	31.00	90	16.99	8720.00	1020.00	268.00	—	mg/kg-dry
CA38-005	Chrysene	0	0.5	88.00	56	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ38-007	Chrysene	0	0.5	240.00	57	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA39-003	Chrysene	0	0.5	62.00	56	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-018	Chrysene	0	0.5	120.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-016	Chrysene	0	0.5	99.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-017	Chrysene	0	0.5	69.00	54	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA38-001	Chrysene	0	0.5	65.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA38-003	Chrysene	0	0.5	73.00	54	NA	78400000.00	784000.00	3490000.00	—	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-007	Chrysene	0	0.5	86.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA39-002	Chrysene	0	0.5	57.00	56	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA39-011	Chrysene	0	0.5	74.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ38-008	Chrysene	0	0.5	200.00	54	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ38-009	Chrysene	0	0.5	91.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ38-011	Chrysene	0.5	1	220.00	56	NA	—	—	3490000.00	—	ug/kg
BZ38-013	Chrysene	0	0.5	92.00	56	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-021	Chrysene	0.5	1	110.00	56	NA	—	—	3490000.00	—	ug/kg
BZ39-022	Chrysene	0.5	1	300.00	56	NA	—	—	3490000.00	—	ug/kg
CA38-002	Chrysene	0	0.5	66.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA39-001	Chrysene	0	0.5	65.00	57	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA39-012	Chrysene	0	0.4	380.00	54	NA	78400000.00	784000.00	3490000.00	—	ug/kg
CA39-013	Chrysene	0	0.5	190.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-024	Chrysene	0	0.5	180.00	55	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-025	Chrysene	0	0.5	83.00	54	NA	78400000.00	784000.00	3490000.00	—	ug/kg
BZ39-030	Copper	0	0.5	23.80	0.16	18.06	75600.00	75600.00	40900.00	—	mg/kg
BZ39-032	Copper	0	0.5	26.90	0.16	18.06	75600.00	75600.00	40900.00	—	mg/kg
BZ39-008	Copper	0	0.5	60.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-011	Copper	0	0.5	68.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-018	Copper	0	0.5	51.20	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-009	Copper	0	0.5	190.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-014	Copper	0	0.5	68.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-007	Copper	0	0.5	180.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-017	Copper	0	0.5	375.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-010	Copper	0	0.5	190.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-013	Copper	0	0.5	170.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-006	Copper	0	0.5	110.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-016	Copper	0	0.5	66.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-007	Copper	0	0.5	64.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-004	Copper	0	0.5	62.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-007	Copper	0	0.5	67.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-010	Copper	0	0.5	79.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA38-006	Copper	0	0.5	62.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA38-004	Copper	0	0.5	56.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA38-003	Copper	0	0.5	64.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA38-001	Copper	0	0.5	56.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg
CA39-002	Copper	0	0.5	57.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-005	Copper	0	0.5	49.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-008	Copper	0	0.5	43.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-011	Copper	0	0.5	46.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-001	Copper	0	0.5	69.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-013	Copper	0	0.5	71.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-012	Copper	0	0.5	52.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA38-000	Copper	0	0.5	53.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA38-002	Copper	0	0.5	58.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-010	Copper	0.5	1	69.00	300	38.21	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-011	Copper	0.5	1	77.00	300	38.21	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-020	Copper	0.5	1	100.00	300	38.21	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-021	Copper	0.5	1	91.00	300	38.21	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-022	Copper	0.5	1	53.00	300	38.21	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-009	Copper	0	0.5	47.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-A08	Copper	0	0.5	58.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-006	Copper	0	0.5	36.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-005	Copper	0	0.5	78.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-002	Copper	0	0.5	32.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-003	Copper	0	0.5	47.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-004	Copper	0	0.5	71.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-012	Copper	0	0.4	56.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
CA39-013	Copper	0	0.5	79.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-024	Copper	0	0.5	97.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ39-025	Copper	0	0.5	56.00	300	18.06	75600.00	75600.00	40900.00	—	mg/kg-dry
BZ38-011	Dibenz(A,H)Anthracene	0.5	1	60.00	49	NA	152800.98	1528.01	3490.00	—	ug/kg
BZ39-022	Dibenz(A,H)Anthracene	0.5	1	75.00	49	NA	152800.98	1528.01	3490.00	—	ug/kg
CA39-012	Dibenz(A,H)Anthracene	0	0.4	100.00	48	NA	78400.00	784.00	3490.00	—	ug/kg
CA39-013	Dibenz(A,H)Anthracene	0	0.5	240.00	49	NA	78400.00	784.00	3490.00	—	ug/kg
BZ39-024	Dibenz(A,H)Anthracene	0	0.5	82.00	49	NA	78400.00	784.00	3490.00	—	ug/kg
BZ38-003	Di-N-Butyl Phthalate	0	0.5	230.00	78	NA	—	—	73700000.00	—	ug/kg
BZ38-A04	Di-N-Octyl Phthalate	0	0.5	61.00	38	NA	1000000000.00	40900000.00	14700000.00	—	ug/kg
CA38-005	Fluoranthene	0	0.5	200.00	88	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ38-007	Fluoranthene	0	0.5	640.00	90	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-018	Fluoranthene	0	0.5	220.00	87	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-006	Fluoranthene	0	0.5	130.00	88	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-016	Fluoranthene	0	0.5	250.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-017	Fluoranthene	0	0.5	160.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA38-001	Fluoranthene	0	0.5	130.00	88	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA38-003	Fluoranthene	0	0.5	150.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA38-004	Fluoranthene	0	0.5	130.00	87	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA38-006	Fluoranthene	0	0.5	100.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA39-007	Fluoranthene	0	0.5	130.00	88	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ38-008	Fluoranthene	0	0.5	420.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ38-009	Fluoranthene	0	0.5	150.00	87	NA	81800000.00	81800000.00	27200000.00	—	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-011	Fluoranthene	0.5	1	370.00	88	NA	537002709.13	5370027.09	27200000.00	—	ug/kg
BZ38-013	Fluoranthene	0	0.5	200.00	88	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-021	Fluoranthene	0.5	1	110.00	88	NA	537002709.13	5370027.09	27200000.00	—	ug/kg
BZ39-022	Fluoranthene	0.5	1	500.00	88	NA	537002709.13	5370027.09	27200000.00	—	ug/kg
CA38-002	Fluoranthene	0	0.5	150.00	87	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA39-001	Fluoranthene	0	0.5	130.00	89	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA39-012	Fluoranthene	0	0.4	880.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA39-013	Fluoranthene	0	0.5	1800.00	87	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-024	Fluoranthene	0	0.5	240.00	87	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ39-025	Fluoranthene	0	0.5	160.00	86	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
CA39-003	Fluoranthene	0	0.5	120.00	88	NA	81800000.00	81800000.00	27200000.00	—	ug/kg
BZ38-007	Fluorene	0	0.5	99.00	82	NA	81800000.00	81800000.00	40800000.00	—	ug/kg
CA39-012	Fluorene	0	0.4	130.00	78	NA	81800000.00	81800000.00	40800000.00	—	ug/kg
CA39-013	Fluorene	0	0.5	82.00	78	NA	81800000.00	81800000.00	40800000.00	—	ug/kg
BZ38-007	Indeno(1,2,3-Cd)Pyrene	0	0.5	150.00	52	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ39-018	Indeno(1,2,3-Cd)Pyrene	0	0.5	74.00	50	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ39-016	Indeno(1,2,3-Cd)Pyrene	0	0.5	65.00	49	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ38-008	Indeno(1,2,3-Cd)Pyrene	0	0.5	120.00	49	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ38-011	Indeno(1,2,3-Cd)Pyrene	0.5	1	100.00	50	NA	1395314.91	13953.15	34900.00	—	ug/kg
BZ38-013	Indeno(1,2,3-Cd)Pyrene	0	0.5	56.00	50	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ39-022	Indeno(1,2,3-Cd)Pyrene	0.5	1	130.00	50	NA	1395314.91	13953.15	34900.00	—	ug/kg
CA39-012	Indeno(1,2,3-Cd)Pyrene	0	0.4	230.00	49	NA	784000.00	7840.00	34900.00	—	ug/kg
CA39-013	Indeno(1,2,3-Cd)Pyrene	0	0.5	540.00	50	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ39-024	Indeno(1,2,3-Cd)Pyrene	0	0.5	86.00	50	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ39-025	Indeno(1,2,3-Cd)Pyrene	0	0.5	54.00	49	NA	784000.00	7840.00	34900.00	—	ug/kg
CA38-005	Indeno(1,2,3-Cd)Pyrene	0	0.5	62.00	50	NA	784000.00	7840.00	34900.00	—	ug/kg
BZ39-032	Iron	0	0.5	25400.00	1.5	18037.00	613000.00	613000.00	307000.00	—	mg/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-008	Iron	0	0.5	40800.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-011	Iron	0	0.5	43500.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-018	Iron	0	0.5	28400.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-009	Iron	0	0.5	37600.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-014	Iron	0	0.5	29900.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-007	Iron	0	0.5	41500.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-017	Iron	0	0.5	38000.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-010	Iron	0	0.5	37300.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-013	Iron	0	0.5	43100.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-006	Iron	0	0.5	29700.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-016	Iron	0	0.5	18800.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-007	Iron	0	0.5	29200.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-004	Iron	0	0.5	26000.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-007	Iron	0	0.5	37000.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-010	Iron	0	0.5	48200.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-006	Iron	0	0.5	35900.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-004	Iron	0	0.5	31400.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-003	Iron	0	0.5	35600.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-001	Iron	0	0.5	31000.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg
CA39-002	Iron	0	0.5	29700.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-005	Iron	0	0.5	27200.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-008	Iron	0	0.5	30100.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-011	Iron	0	0.5	28900.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-001	Iron	0	0.5	27600.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-013	Iron	0	0.5	32400.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-012	Iron	0	0.5	30300.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-000	Iron	0	0.5	35600.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA38-002	Iron	0	0.5	32300.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-010	Iron	0.5	1	49600.00	2500	41046.52	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-011	Iron	0.5	1	78800.00	2500	41046.52	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-020	Iron	0.5	1	72000.00	2500	41046.52	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-021	Iron	0.5	1	80000.00	2500	41046.52	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-022	Iron	0.5	1	47700.00	2500	41046.52	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-009	Iron	0	0.5	38200.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-A08	Iron	0	0.5	43400.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-005	Iron	0	0.5	34500.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-002	Iron	0	0.5	29500.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-003	Iron	0	0.5	30200.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-004	Iron	0	0.5	33800.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-012	Iron	0	0.4	33400.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-013	Iron	0	0.5	41300.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-024	Iron	0	0.5	44800.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-025	Iron	0	0.5	31300.00	2500	18037.00	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-007	Lead	0	0.5	363.00	20	54.62	1000.00	1000.00	1000.00	98	mg/kg-dry
CA39-010	Lead	0	0.5	235.00	20	54.62	1000.00	1000.00	1000.00	98	mg/kg-dry
BZ39-030	Lithium	0	0.5	11.90	0.18	11.55	40900.00	40900.00	20400.00	—	mg/kg
CA38-005	Lithium	0	0.5	12.10	0.18	11.55	40900.00	40900.00	20400.00	—	mg/kg
CA39-003	Lithium	0	0.5	12.10	0.18	11.55	40900.00	40900.00	20400.00	—	mg/kg
BZ39-032	Lithium	0	0.5	11.80	0.18	11.55	40900.00	40900.00	20400.00	—	mg/kg
BZ39-032	Manganese	0	0.5	561.00	0.034	365.08	66800.00	66800.00	3480.00	—	mg/kg
BZ39-008	Manganese	0	0.5	534.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-018	Manganese	0	0.5	572.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-009	Manganese	0	0.5	398.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-014	Manganese	0	0.5	546.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-007	Manganese	0	0.5	892.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-017	Manganese	0	0.5	790.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-010	Manganese	0	0.5	618.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-013	Manganese	0	0.5	908.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-006	Manganese	0	0.5	616.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-007	Manganese	0	0.5	647.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-004	Manganese	0	0.5	535.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-007	Manganese	0	0.5	464.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-010	Manganese	0	0.5	549.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA38-006	Manganese	0	0.5	512.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA38-004	Manganese	0	0.5	564.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA38-003	Manganese	0	0.5	557.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA38-001	Manganese	0	0.5	482.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg
CA39-002	Manganese	0	0.5	552.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-005	Manganese	0	0.5	378.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-008	Manganese	0	0.5	432.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-001	Manganese	0	0.5	589.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-013	Manganese	0	0.5	449.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-012	Manganese	0	0.5	462.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA38-000	Manganese	0	0.5	476.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA38-002	Manganese	0	0.5	457.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-010	Manganese	0.5	1	1030.00	200	901.62	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-011	Manganese	0.5	1	1760.00	200	901.62	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-020	Manganese	0.5	1	1640.00	200	901.62	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-021	Manganese	0.5	1	1520.00	200	901.62	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-009	Manganese	0	0.5	746.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-A08	Manganese	0	0.5	831.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-005	Manganese	0	0.5	599.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-002	Manganese	0	0.5	392.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-003	Manganese	0	0.5	506.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ38-004	Manganese	0	0.5	644.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
CA39-012	Manganese	0	0.4	520.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-024	Manganese	0	0.5	625.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-025	Manganese	0	0.5	624.00	200	365.08	66800.00	66800.00	3480.00	—	mg/kg-dry
BZ39-029	Mercury	0	0.5	0.15	0.0013	0.13	613.00	613.00	25200.00	—	mg/kg
BZ39-029	Molybdenum	0	0.5	0.41	0.14	NA	10200.00	10200.00	5110.00	—	mg/kg
BZ39-030	Molybdenum	0	0.5	0.41	0.13	NA	10200.00	10200.00	5110.00	—	mg/kg
CA39-003	Molybdenum	0	0.5	1.40	0.14	NA	10200.00	10200.00	5110.00	—	mg/kg
BZ39-032	Molybdenum	0	0.5	0.18	0.14	NA	10200.00	10200.00	5110.00	—	mg/kg
BZ38-007	Naphthalene	0	0.5	83.00	75	NA	81800000.00	81800000.00	3090000.00	—	ug/kg
BZ38-011	Naphthalene	0.5	1	91.00	73	NA	10142197.10	101421.97	3090000.00	—	ug/kg
CA39-012	Naphthalene	0	0.4	120.00	72	NA	81800000.00	81800000.00	3090000.00	—	ug/kg
CA38-005	Naphthalene	0.5	2.5	9.09	5.3	NA	10142197.10	101421.97	3090000.00	—	ug/kg
CA39-002	Naphthalene	0.5	2.5	5.14	5.1	NA	10142197.10	101421.97	3090000.00	—	ug/kg
CA39-008	Naphthalene	0.5	2.5	24.37	5.2	NA	10142197.10	101421.97	3090000.00	—	ug/kg
BZ39-008	Nickel	0	0.5	53.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-011	Nickel	0	0.5	61.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-018	Nickel	0	0.5	21.80	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-009	Nickel	0	0.5	46.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-014	Nickel	0	0.5	35.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-007	Nickel	0	0.5	43.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-017	Nickel	0	0.5	33.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-010	Nickel	0	0.5	46.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-013	Nickel	0	0.5	47.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-006	Nickel	0	0.5	32.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-016	Nickel	0	0.5	16.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-007	Nickel	0	0.5	32.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-004	Nickel	0	0.5	24.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-007	Nickel	0	0.5	46.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-010	Nickel	0	0.5	51.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA38-006	Nickel	0	0.5	51.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA38-004	Nickel	0	0.5	51.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA38-003	Nickel	0	0.5	49.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA38-001	Nickel	0	0.5	37.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg
CA39-002	Nickel	0	0.5	32.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-005	Nickel	0	0.5	30.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-008	Nickel	0	0.5	35.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-011	Nickel	0	0.5	33.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-001	Nickel	0	0.5	25.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-013	Nickel	0	0.5	38.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-012	Nickel	0	0.5	36.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA38-000	Nickel	0	0.5	45.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA38-002	Nickel	0	0.5	38.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-021	Nickel	0.5	1	64.20	60	62.21	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-009	Nickel	0	0.5	41.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-A08	Nickel	0	0.5	50.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-005	Nickel	0	0.5	35.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-002	Nickel	0	0.5	33.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-003	Nickel	0	0.5	30.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-004	Nickel	0	0.5	31.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
CA39-012	Nickel	0	0.4	36.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-013	Nickel	0	0.5	64.10	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-024	Nickel	0	0.5	60.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ39-025	Nickel	0	0.5	32.00	60	14.91	40900.00	40900.00	20400.00	—	mg/kg-dry
BZ38-007	Pyrene	0	0.5	640.00	43	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA38-005	Pyrene	0	0.5	190.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-008	Pyrene	0	0.5	44.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-011	Pyrene	0	0.5	64.00	43	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-018	Pyrene	0	0.5	240.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-006	Pyrene	0	0.5	110.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-016	Pyrene	0	0.5	220.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-017	Pyrene	0	0.5	160.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA38-001	Pyrene	0	0.5	140.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA38-003	Pyrene	0	0.5	150.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA38-004	Pyrene	0	0.5	120.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA38-006	Pyrene	0	0.5	100.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-004	Pyrene	0	0.5	78.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-007	Pyrene	0	0.5	140.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-002	Pyrene	0	0.5	84.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-005	Pyrene	0	0.5	85.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-011	Pyrene	0	0.5	110.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ38-008	Pyrene	0	0.5	410.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ38-009	Pyrene	0	0.5	170.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ38-011	Pyrene	0.5	1	300.00	42	NA	397030114.59	3970301.15	22100000.00	—	ug/kg
BZ38-012	Pyrene	0	0.5	72.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ38-013	Pyrene	0	0.5	180.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-021	Pyrene	0.5	1	190.00	42	NA	397030114.59	3970301.15	22100000.00	—	ug/kg
BZ39-022	Pyrene	0.5	1	770.00	42	NA	397030114.59	3970301.15	22100000.00	—	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA38-000	Pyrene	0	0.5	59.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA38-002	Pyrene	0	0.5	140.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-001	Pyrene	0	0.5	120.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ38-003	Pyrene	0	0.5	57.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ38-A04	Pyrene	0	0.5	59.00	43	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-012	Pyrene	0	0.4	810.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-013	Pyrene	0	0.5	1600.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-024	Pyrene	0	0.5	220.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-025	Pyrene	0	0.5	130.00	41	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
CA39-003	Pyrene	0	0.5	120.00	42	NA	61300000.00	61300000.00	22100000.00	—	ug/kg
BZ39-031	Selenium	0	0.5	1.60	0.48	1.22	10200.00	10200.00	5110.00	—	mg/kg
BZ39-007	Selenium	0	0.5	1.50	20	1.22	10200.00	10200.00	5110.00	—	mg/kg-dry
BZ39-029	Silver	0	0.5	0.54	0.059	NA	10200.00	10200.00	5110.00	—	mg/kg
CA39-003	Strontium	0	0.5	61.30	0.0063	48.94	1000000.00	1000000.00	613000.00	—	mg/kg
BZ39-008	Strontium	0	0.5	180.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-011	Strontium	0	0.5	160.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-018	Strontium	0	0.5	242.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-009	Strontium	0	0.5	170.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-014	Strontium	0	0.5	150.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-007	Strontium	0	0.5	295.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-017	Strontium	0	0.5	240.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-010	Strontium	0	0.5	180.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-013	Strontium	0	0.5	306.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-006	Strontium	0	0.5	190.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-016	Strontium	0	0.5	351.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-007	Strontium	0	0.5	230.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-004	Strontium	0	0.5	369.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-007	Strontium	0	0.5	210.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-010	Strontium	0	0.5	190.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA38-006	Strontium	0	0.5	180.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA38-004	Strontium	0	0.5	220.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA38-003	Strontium	0	0.5	230.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA38-001	Strontium	0	0.5	250.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg
CA39-002	Strontium	0	0.5	264.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-005	Strontium	0	0.5	200.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-008	Strontium	0	0.5	210.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-011	Strontium	0	0.5	170.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-001	Strontium	0	0.5	358.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-013	Strontium	0	0.5	210.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-012	Strontium	0	0.5	220.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA38-000	Strontium	0	0.5	190.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA38-002	Strontium	0	0.5	200.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-009	Strontium	0	0.5	252.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-A08	Strontium	0	0.5	210.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-006	Strontium	0	0.5	240.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-005	Strontium	0	0.5	210.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-002	Strontium	0	0.5	130.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-003	Strontium	0	0.5	170.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ38-004	Strontium	0	0.5	180.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-012	Strontium	0	0.4	279.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
CA39-013	Strontium	0	0.5	180.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-024	Strontium	0	0.5	270.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-025	Strontium	0	0.5	391.00	250	48.94	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-024	Tetrachloroethene	0.5	2.5	9.25	5.3	NA	3150.98	31.51	615000.00	37,500	ug/kg

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-029	Tin	0	0.5	2.50	0.41	NA	1000000.00	1000000.00	613000.00	—	mg/kg
BZ39-030	Tin	0	0.5	2.70	0.39	NA	1000000.00	1000000.00	613000.00	—	mg/kg
BZ39-031	Tin	0	0.5	2.90	0.42	NA	1000000.00	1000000.00	613000.00	—	mg/kg
BZ39-032	Tin	0	0.5	2.60	0.4	NA	1000000.00	1000000.00	613000.00	—	mg/kg
CA38-005	Tin	0	0.5	2.10	0.4	NA	1000000.00	1000000.00	613000.00	—	mg/kg
CA39-003	Tin	0	0.5	2.10	0.4	NA	1000000.00	1000000.00	613000.00	—	mg/kg
CA39-010	Tin	0	0.5	114.00	45	NA	1000000.00	1000000.00	613000.00	—	mg/kg-dry
BZ39-008	Uranium-234	0.5	2.5	5.67	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-011	Uranium-234	0	0.5	4.29	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-011	Uranium-234	0.5	2.5	3.59	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-003	Uranium-234	0	0.5	2.34	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA39-003	Uranium-234	0.5	2.5	3.63	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-005	Uranium-234	0.5	2.5	3.72	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-018	Uranium-234	0	0.5	4.86	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-018	Uranium-234	0.5	2.5	3.51	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-009	Uranium-234	0	0.5	6.39	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-009	Uranium-234	0.5	2.5	4.18	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-014	Uranium-234	0	0.5	3.81	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-014	Uranium-234	0.5	2.5	4.34	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ38-007	Uranium-234	0	0.5	3.21	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ38-007	Uranium-234	0.5	2.5	6.00	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-017	Uranium-234	0	0.5	3.78	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-017	Uranium-234	0.5	2.5	3.65	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-010	Uranium-234	0	0.5	3.07	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-010	Uranium-234	0.5	2.5	5.63	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-013	Uranium-234	0	0.5	3.77	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-013	Uranium-234	0.5	2.5	3.44	8	1.49	506.00	103.00	300.00	1800	pCi/g

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-006	Uranium-234	0	0.5	5.36	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-006	Uranium-234	0.5	2.5	5.73	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-016	Uranium-234	0	0.5	3.89	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-016	Uranium-234	0.5	2.5	5.00	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-007	Uranium-234	0	0.5	3.74	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ39-007	Uranium-234	0.5	2.5	3.99	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-004	Uranium-234	0	0.5	5.24	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA39-004	Uranium-234	0.5	2	2.35	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-007	Uranium-234	0	0.5	3.43	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA39-007	Uranium-234	0.5	2.5	5.27	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-010	Uranium-234	0	0.5	4.29	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA39-010	Uranium-234	0.5	2.5	2.48	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-006	Uranium-234	0	0.5	3.18	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA38-006	Uranium-234	0.5	2.5	2.09	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-004	Uranium-234	0	0.5	4.52	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA38-004	Uranium-234	0.5	2.5	3.16	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-003	Uranium-234	0	0.5	3.96	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA38-003	Uranium-234	0.5	2.5	4.46	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-001	Uranium-234	0	0.5	3.71	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA38-001	Uranium-234	0.5	2.5	3.13	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-005	Uranium-234	0	0.5	3.79	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA39-005	Uranium-234	0.5	2.5	3.23	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-008	Uranium-234	0.5	2.5	3.68	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA39-011	Uranium-234	0	0.5	2.59	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA39-011	Uranium-234	0.5	2.5	4.12	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ38-013	Uranium-234	0	0.5	4.52	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ38-013	Uranium-234	0.5	2.5	4.01	8	1.49	506.00	103.00	300.00	1800	pCi/g

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-012	Uranium-234	0	0.5	5.34	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ38-012	Uranium-234	0.5	2.5	2.17	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-000	Uranium-234	0	0.5	7.45	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA38-000	Uranium-234	0.5	2.5	2.45	8	1.49	506.00	103.00	300.00	1800	pCi/g
CA38-002	Uranium-234	0	0.5	3.49	8	2.00	506.00	103.00	300.00	1800	pCi/g
CA38-002	Uranium-234	0.5	2.5	4.74	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ38-002	Uranium-234	0	0.5	6.38	8	2.00	506.00	103.00	300.00	1800	pCi/g
BZ38-002	Uranium-234	0.5	2.5	3.85	8	1.49	506.00	103.00	300.00	1800	pCi/g
BZ39-030	Uranium-235	0	0.5	0.18	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-011	Uranium-235	0	0.5	0.28	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-032	Uranium-235	0	0.5	0.15	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-011	Uranium-235	0.5	2.5	0.28	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-031	Uranium-235	0	0.5	0.15	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-003	Uranium-235	0.5	2.5	0.21	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-005	Uranium-235	0	0.5	0.15	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-008	Uranium-235	0	0.5	0.51	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-008	Uranium-235	0.5	2.5	0.34	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-018	Uranium-235	0	0.5	0.29	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-009	Uranium-235	0.5	2.5	0.39	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-014	Uranium-235	0.5	2.5	0.31	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-007	Uranium-235	0	0.5	0.31	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ38-007	Uranium-235	0.5	2.5	0.24	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-017	Uranium-235	0	0.5	0.19	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-013	Uranium-235	0.5	2.5	0.35	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-006	Uranium-235	0.5	2.5	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-016	Uranium-235	0	0.5	0.24	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-016	Uranium-235	0.5	2.5	0.34	1	0.12	113.00	24.00	8.00	1900	pCi/g

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-007	Uranium-235	0	0.5	0.12	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ39-007	Uranium-235	0.5	2.5	0.23	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA39-004	Uranium-235	0	0.5	0.14	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-004	Uranium-235	0.5	2	0.21	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA39-007	Uranium-235	0	0.5	0.18	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-010	Uranium-235	0	0.5	0.23	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-010	Uranium-235	0.5	2.5	0.26	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-006	Uranium-235	0	0.5	0.17	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA38-006	Uranium-235	0.5	2.5	0.14	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-004	Uranium-235	0	0.5	0.31	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA38-004	Uranium-235	0.5	2.5	0.25	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-003	Uranium-235	0	0.5	0.30	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA38-003	Uranium-235	0.5	2.5	0.42	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-001	Uranium-235	0	0.5	0.21	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-002	Uranium-235	0	0.5	0.30	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-002	Uranium-235	0.5	2.5	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
CA39-005	Uranium-235	0	0.5	0.26	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-005	Uranium-235	0.5	2.5	0.21	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA39-008	Uranium-235	0	0.5	0.19	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-008	Uranium-235	0.5	2.5	0.25	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA39-011	Uranium-235	0	0.5	0.22	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA39-011	Uranium-235	0.5	2.5	0.32	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA39-001	Uranium-235	0	0.5	0.20	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
CA39-001	Uranium-235	0.5	2.5	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-013	Uranium-235	0	0.5	0.30	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ38-013	Uranium-235	0.5	2.5	0.33	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-012	Uranium-235	0	0.5	0.23	1	0.09	113.00	24.00	8.00	1900	pCi/g

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-012	Uranium-235	0.5	2.5	0.22	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-000	Uranium-235	0	0.5	0.33	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA38-000	Uranium-235	0.5	2.5	0.24	1	0.12	113.00	24.00	8.00	1900	pCi/g
CA38-002	Uranium-235	0	0.5	0.30	1	0.09	113.00	24.00	8.00	1900	pCi/g
CA38-002	Uranium-235	0.5	2.5	0.16	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-010	Uranium-235	0.5	1	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-010	Uranium-235	1	3	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-011	Uranium-235	0.5	1	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-011	Uranium-235	1	3	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ39-020	Uranium-235	0.5	1	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-020	Uranium-235	1	3	0.40	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-021	Uranium-235	0.5	1	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-021	Uranium-235	1	3	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-022	Uranium-235	1	3	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-009	Uranium-235	0	0.5	0.20	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-A08	Uranium-235	0	0.5	0.10	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-008	Uranium-235	0.5	2.5	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-006	Uranium-235	0	0.5	0.10	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-005	Uranium-235	0	0.5	0.30	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-005	Uranium-235	0.5	2.5	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-003	Uranium-235	0	0.5	0.10	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-002	Uranium-235	0	0.5	0.21	1	0.09	113.00	24.00	8.00	1900	pCi/g
BZ38-002	Uranium-235	0	0.5	0.30	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-002	Uranium-235	0.5	2.5	0.27	1	0.12	113.00	24.00	8.00	1900	pCi/g
BZ38-002	Uranium-235	0.5	2.5	0.30	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-003	Uranium-235	0.5	2.5	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ38-004	Uranium-235	0	0.5	0.20	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ38-004	Uranium-235	0.5	2.5	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
CA39-013	Uranium-235	0	0.5	0.20	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
CA39-013	Uranium-235	0.5	0.8	0.20	1	0.12	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-024	Uranium-235	0	0.5	0.21	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-025	Uranium-235	0	0.5	0.20	1	0.09	113.00	24.00	8.00	1900	pCi/g-dry
BZ39-008	Uranium-238	0.5	2.5	5.67	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-011	Uranium-238	0	0.5	4.29	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-011	Uranium-238	0.5	2.5	3.59	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-003	Uranium-238	0	0.5	2.34	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA39-003	Uranium-238	0.5	2.5	3.63	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA38-005	Uranium-238	0.5	2.5	3.72	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-018	Uranium-238	0	0.5	4.86	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-018	Uranium-238	0.5	2.5	3.51	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-009	Uranium-238	0	0.5	6.39	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-009	Uranium-238	0.5	2.5	4.18	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-014	Uranium-238	0	0.5	3.81	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-014	Uranium-238	0.5	2.5	4.34	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ38-007	Uranium-238	0	0.5	3.21	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ38-007	Uranium-238	0.5	2.5	6.00	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-017	Uranium-238	0	0.5	3.78	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-017	Uranium-238	0.5	2.5	3.65	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-010	Uranium-238	0	0.5	3.07	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-010	Uranium-238	0.5	2.5	5.63	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-013	Uranium-238	0	0.5	3.77	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-013	Uranium-238	0.5	2.5	3.44	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-006	Uranium-238	0	0.5	5.36	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-006	Uranium-238	0.5	2.5	5.73	8	1.49	506.00	103.00	351.00	1600	pCi/g

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-016	Uranium-238	0	0.5	3.89	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-016	Uranium-238	0.5	2.5	5.00	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-007	Uranium-238	0	0.5	3.74	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ39-007	Uranium-238	0.5	2.5	3.99	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-004	Uranium-238	0	0.5	5.24	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA39-004	Uranium-238	0.5	2	2.35	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-007	Uranium-238	0	0.5	3.43	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA39-007	Uranium-238	0.5	2.5	5.27	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-010	Uranium-238	0	0.5	4.29	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA39-010	Uranium-238	0.5	2.5	2.48	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA38-006	Uranium-238	0	0.5	3.18	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA38-006	Uranium-238	0.5	2.5	2.09	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA38-004	Uranium-238	0	0.5	4.52	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA38-004	Uranium-238	0.5	2.5	3.16	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA38-003	Uranium-238	0	0.5	3.96	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA38-003	Uranium-238	0.5	2.5	4.46	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA38-001	Uranium-238	0	0.5	3.71	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA38-001	Uranium-238	0.5	2.5	3.13	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-005	Uranium-238	0	0.5	3.79	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA39-005	Uranium-238	0.5	2.5	3.23	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-008	Uranium-238	0.5	2.5	3.68	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA39-011	Uranium-238	0	0.5	2.59	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA39-011	Uranium-238	0.5	2.5	4.12	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ38-013	Uranium-238	0	0.5	4.52	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ38-013	Uranium-238	0.5	2.5	4.01	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ38-012	Uranium-238	0	0.5	5.34	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ38-012	Uranium-238	0.5	2.5	2.17	8	1.49	506.00	103.00	351.00	1600	pCi/g

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA38-000	Uranium-238	0	0.5	7.45	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA38-000	Uranium-238	0.5	2.5	2.45	8	1.49	506.00	103.00	351.00	1600	pCi/g
CA38-002	Uranium-238	0	0.5	3.49	8	2.00	506.00	103.00	351.00	1600	pCi/g
CA38-002	Uranium-238	0.5	2.5	4.74	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ38-002	Uranium-238	0	0.5	6.38	8	2.00	506.00	103.00	351.00	1600	pCi/g
BZ38-002	Uranium-238	0.5	2.5	3.85	8	1.49	506.00	103.00	351.00	1600	pCi/g
BZ39-032	Vandium	0	0.5	45.90	0.25	45.59	14300.00	14300.00	7150.00	433	mg/kg
BZ39-008	Vanadium	0	0.5	100.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-011	Vanadium	0	0.5	118.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-018	Vanadium	0	0.5	69.40	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-009	Vanadium	0	0.5	134.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-014	Vanadium	0	0.5	115.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-007	Vanadium	0	0.5	100.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-017	Vanadium	0	0.5	108.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-010	Vanadium	0	0.5	125.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-013	Vanadium	0	0.5	114.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-006	Vanadium	0	0.5	63.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-016	Vanadium	0	0.5	61.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-007	Vanadium	0	0.5	91.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-004	Vanadium	0	0.5	70.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-007	Vanadium	0	0.5	99.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-010	Vanadium	0	0.5	106.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA38-006	Vanadium	0	0.5	132.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA38-004	Vanadium	0	0.5	74.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA38-003	Vanadium	0	0.5	93.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA38-001	Vanadium	0	0.5	75.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg
CA39-002	Vanadium	0	0.5	81.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CA39-005	Vanadium	0	0.5	58.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-008	Vanadium	0	0.5	57.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-011	Vanadium	0	0.5	77.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-001	Vanadium	0	0.5	47.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-013	Vanadium	0	0.5	96.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-012	Vanadium	0	0.5	77.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA38-000	Vanadium	0	0.5	103.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA38-002	Vanadium	0	0.5	75.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-010	Vanadium	0.5	1	168.00	100	88.49	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-011	Vanadium	0.5	1	297.00	100	88.49	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-020	Vanadium	0.5	1	271.00	100	88.49	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-021	Vanadium	0.5	1	287.00	100	88.49	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-022	Vanadium	0.5	1	165.00	100	88.49	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-009	Vanadium	0	0.5	106.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-A08	Vanadium	0	0.5	92.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-005	Vanadium	0	0.5	87.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-002	Vanadium	0	0.5	106.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-003	Vanadium	0	0.5	97.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ38-004	Vanadium	0	0.5	104.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-012	Vanadium	0	0.4	74.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
CA39-013	Vanadium	0	0.5	118.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-024	Vanadium	0	0.5	140.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-025	Vanadium	0	0.5	76.00	100	45.59	14300.00	14300.00	7150.00	433	mg/kg-dry
BZ39-029	Zinc	0	0.5	76.40	0.22	73.76	613000.00	613000.00	307000.00	—	mg/kg
BZ39-031	Zinc	0	0.5	161.00	0.22	73.76	613000.00	613000.00	307000.00	—	mg/kg
BZ39-032	Zinc	0	0.5	110.00	0.21	73.76	613000.00	613000.00	307000.00	—	mg/kg
BZ39-008	Zinc	0	0.5	150.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry

IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-018	Zinc	0	0.5	95.60	50	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-009	Zinc	0	0.5	120.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-014	Zinc	0	0.5	190.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-007	Zinc	0	0.5	130.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-017	Zinc	0	0.5	220.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-010	Zinc	0	0.5	130.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-013	Zinc	0	0.5	130.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-006	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-016	Zinc	0	0.5	140.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-007	Zinc	0	0.5	170.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-004	Zinc	0	0.5	170.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-007	Zinc	0	0.5	280.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-010	Zinc	0	0.5	180.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-006	Zinc	0	0.5	96.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-004	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-003	Zinc	0	0.5	150.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-001	Zinc	0	0.5	120.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg
CA39-002	Zinc	0	0.5	130.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-005	Zinc	0	0.5	98.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-008	Zinc	0	0.5	437.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-011	Zinc	0	0.5	550.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-001	Zinc	0	0.5	160.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-013	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-012	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-000	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA38-002	Zinc	0	0.5	100.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-011	Zinc	0.5	1	170.00	300	139.10	613000.00	613000.00	307000.00	—	mg/kg-dry

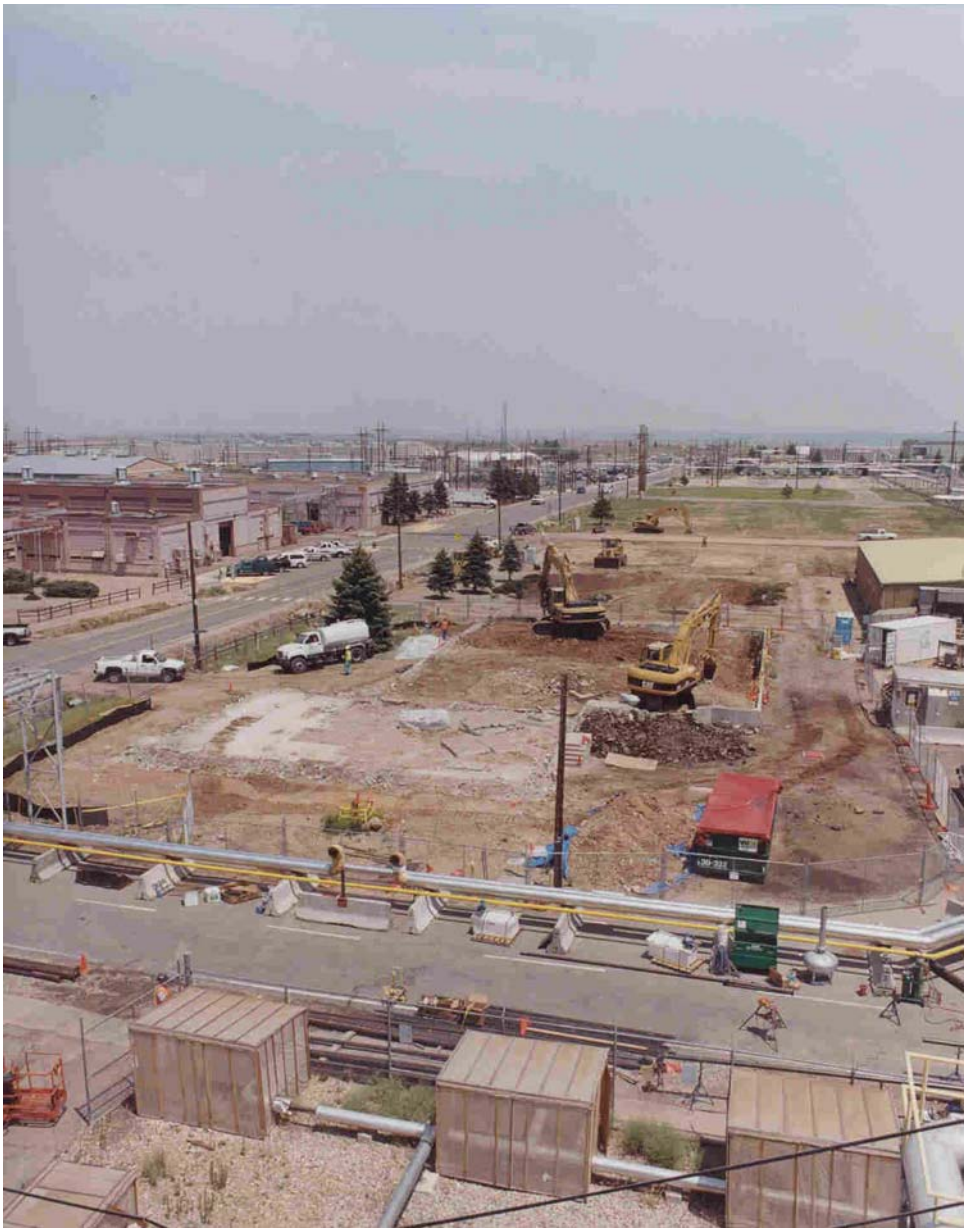
IHSS Group 600-2 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table of Results Greater than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit

Location	Analyte	Soil Begin Depth (feet)	Soil End Depth (feet)	Result	Detection/ Reporting Limit	Background Mean+2SD	Tier I Action Level	Tier II Action Level	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BZ39-020	Zinc	0.5	1	210.00	300	139.10	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-021	Zinc	0.5	1	210.00	300	139.10	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-009	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-A08	Zinc	0	0.5	100.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-005	Zinc	0	0.5	110.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-003	Zinc	0	0.5	79.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ38-004	Zinc	0	0.5	98.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-012	Zinc	0	0.4	170.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
CA39-013	Zinc	0	0.5	180.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-024	Zinc	0	0.5	200.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry
BZ39-025	Zinc	0	0.5	230.00	300	73.76	613000.00	613000.00	307000.00	—	mg/kg-dry

APPENDIX A

PROJECT PHOTOGRAPHS

Photograph#1
June 14, 2002: Looking at T452G located on the northern side of PAC 400-802



PHOTOGRAPH #2
June 20, 2002: Looking east at PAC 400-802 (background) during demolition and removal activities. IHSS Group 400-7 demolition and removal activities in the foreground.

PHOTOGRAPH #3
July 11, 2002: Looking south-southwest at the concrete slabs located on the western side of PAC 400-802. Soil samples are being collected from the southern concrete slab.

PHOTOGRAPH #4
July 11, 2002: Looking southeast at the concrete slabs on the western side of PAC 400-802.

PHOTOGRAPH #5
July 11, 2002: Looking west-northwest at the concrete slabs located on the western side of PAC 400-802. Soil samples are being collected at the southern concrete slab.

PHOTOGRAPH #6
June 14, 2002: Looking west at the southern concrete slab with T452C of IHSS Group 400-7 in the background.

PHOTOGRAPH #7
July 12, 2002: Looking northeast at the hot spot removal of the southern concrete slab at PAC 400-802.

PHOTOGRAPH #8
July 15, 2002: Looking east/northeast at the demolition of the northern concrete slab at PAC 400-802.

PHOTOGRAPH #9
July 17, 2002: Looking north at the demolition and removal of the concrete slabs on the western side of PAC 400-802.

PHOTOGRAPH #10
August 29, 2002: Looking east at PAC 400-802 (background) after the demolition and removal activities. IHSS Group 400-7 is located in the foreground.