590108-0606270002

UGL PARTIAL IV
REMOVAL ACTION
OSC REPORT

This Report Closes PRSs 153, 154, 238, 240, & 405
& Buildings 23 & 125 Footprints

June 2006

Final

Department of Energy
Miamisburg Closure Project

CH2MHILL

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CH2M HILL Mound, Inc.
1075 Mound Road
P.O. Box 750
Miamisburg, OH 45343-0750

CH2MHILL

SMO-369/06
June 15, 2006

Mr. Don Pfister, Director
Miamisburg Closure Project
U. S. Department of Energy
175 Tri-County Parkway
Springdale, OH 45246

ATTENTION: Paul Lucas

SUBJECT: **Contract No. DE-AC24-03OH20152:** Deliverable #39 Potential release site and removal action documentation; Section C.2.3.1.3 Remaining Response Actions; UGL Partial IV OSC Report, Final

Dear Mr. Pfister:

Attached is the following Final document for your records.

- UGL Partial IV OSC Report, Final

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Dave Rakel at 937-865-4203.

Sincerely,

Michael D. Ebben
Site Manager

ME/jg

Enclosures

cc: T. Fischer, USEPA, (1) w/attachments
B. Nickel, OEPA, (1) w/attachments
S.Helmer, ODH, (1) w/attachments
J. Crombie, ODH, (1) w/attachments
M. Wojciechowski, Tetra Tech, (1) w/attach
G. Gorsuch, DOE/MCP, (1) w/attachments
R. Tormey, DOE/OH, (1) w/attachments
G. Desai, DOE/HQ, (1) w/attachments
C. Kline, CH2M Hill, (1) w/attachments
Public Reading Room (1) w/attachments
Admin Records, CH2M Hill, (2) w/attachs
ER Records, CH2M Hill, (1) w/attachs
DCC (1) w/attachments
M. Ebben, CH2M Hill, w/o attachments
K. Armstrong, CH2M Hill, w/o attachments
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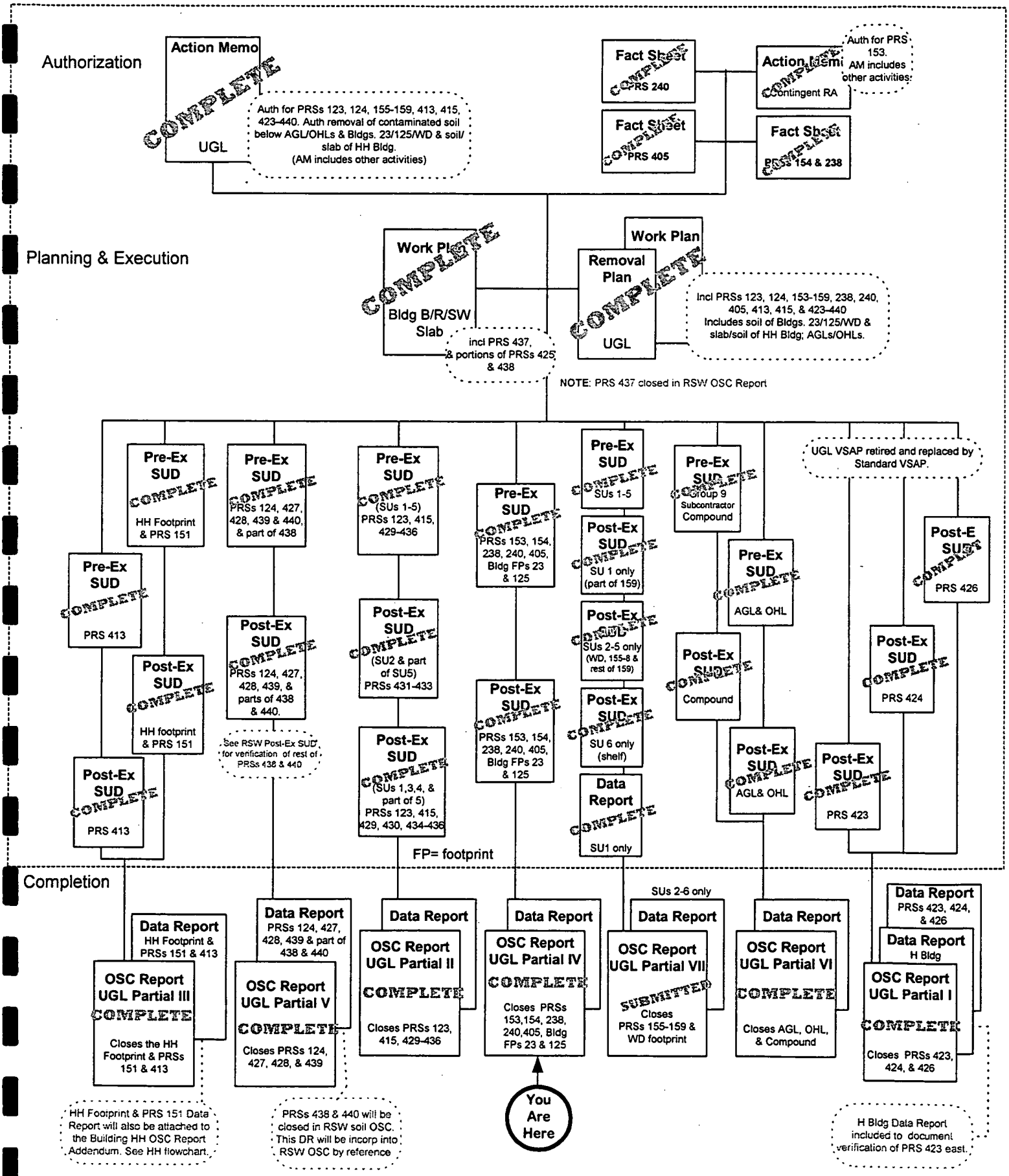
D. Kramer, CH2M Hill, w/o attachments
J. Fontaine, CH2M Hill, w/o attachments
S. Barr, CH2M Hill, w/o attachments
M. McDougal, CH2M Hill, w/o attachments
file, CH2M Hill, w/o attachments

UGL (Underground Waste Transfer Lines) (AKA Group 9):

PRSs 123, 124, 153-159, 238, 240, 405, 413, 415, 423-440.

Includes soil below AGL/OHL & Bldgs 23, 125, HH, & WD. Includes work planning and verification for PRS 440



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Acronyms

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CO	cleanup objective
COC	contaminant of concern
cy	cubic yards
DOE	Department of Energy
Ex	excavation
HS	hot spot
MCP	Miamisburg Closure Project
mg/kg	milligram per kilogram
OEPA	Ohio Environmental Protection Agency
OSC	On-Scene Coordinator
pCi/g	picoCuries per gram
PRP	Potentially Responsible Parties
PRS	Potential Release Site
RA	Removal Action
SUD	Survey Unit Design
TPH	total petroleum hydrocarbon
UCL	upper confidence limit
UGL	underground line
USEPA	United States Environmental Protection Agency
VSAP	Verification Sampling and Analysis Plan

RECOMMENDATION: PRSs 153, 154, 238, 240, 405 & Buildings 23 & 125 Footprints

The Potential Release Site (PRS) 153 Removal Action (RA) was authorized via the Contingent Action Memo, Final, June 2002. PRSs 154 and 238 were authorized via the PRS 154 & 238: Area 23 & Potential Hot Spot S1092 Public Fact Sheet, Final, October 2003. PRS 240 was authorized via the PRS 240: Potential Hot Spot Location S0472 Public Fact Sheet, Final, October 2003. PRS 405 was authorized via the PRS 405: Soil Contamination – Building 23 Public Fact Sheet, Final, April 2004. The RAs associated with Buildings 23 and 125 footprints were authorized via the Underground Line (UGL) Action Memo (Final, September 2003). The RAs were based on historical processes, and radiological surveys and soil sample results which showed elevated levels of Ac-227, Bi-207, Co-60, Cs-137, Pa-231, Pb-210, Pu-238, Ra-226, Th-230, Th-232, U-238, total petroleum hydrocarbons, and arsenic.

Radiologically contaminated soil was excavated per the Contingent Action Memo, the UGL Action Memo, the UGLs Removal Plan (Final, April 2004), and Standard Work Package ELT-MND-105-00 (April 2004). Verification sampling was performed per the associated Action Memos, the UGLs Removal Plan, and the Standard VSAP Soils Verification Sampling & Analysis Plan [VSAP], Final, August 2004 to demonstrate that the remaining soil meets the cleanup criteria. This removal action was successfully completed and resulted in excavation and disposal of approximately 7,813 cubic yards (cy) of radioactively contaminated soil (for disposal at Envirocare).

The cleanup criteria established in the Standard VSAP are satisfied if all verification sample results are below cleanup objectives (COs) or all sample results are below hot spot (HS) criteria and the 95% UCL (upper confidence limit) for the area of interest is less than the CO and the data set passes the Sign test.

All results met the cleanup criteria.

After a thorough review of this On-Scene Coordinator (OSC) Report, the Core Team agrees that these RAs are complete, and that all previously existing environmental issues associated with them have been resolved.

Paul L 6/13/06

Paul Lucas, OSC
U.S. Department of Energy
Springdale, Ohio

Timothy J. Fischer 6/13/06

Timothy J. Fischer, Remedial Project Manager
USEPA
Chicago, Illinois

6/13/06

Brian Nickel, Project Manager
OEPA
Dayton, Ohio

1.0 SUMMARY OF EVENTS

This section describes the site background and events leading up to the removal action (RA), parties involved in responding to the RA, cleanup objective (CO) determination, chronological narrative of the RA, and resources committed to complete the project.

1.1 Site Conditions and Background

Background. The Underground Line (UGL) RA addresses transfer lines (aboveground, underground, and overhead) used to connect sumps and process lines from within T, R, SW, and H Buildings to the WD process treatment facility for treatment of generated radiologically contaminated liquid and sediment waste. Multiple field efforts were performed, each addressing a portion of the overall UGL project. Multiple On-Scene Coordinator (OSC) Reports will be prepared, each closing out a portion of the overall UGL project.

Removal Action. This OSC Report documents completion of Potential Release Sites (PRSs) 153, 154, 238, 240, and 405 RAs; all of which were authorized by the Contingent Action Memo, Final, June 2002. This OSC Report also documents completion of RAs associated with Buildings 23 and 125 footprints. The level of soil contamination warranted a RA under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act). The location of the PRSs are shown on Figure 2 (on page A8/164).

Verification sampling and analysis was performed in accordance with the UGLs Removal Plan, Final, April 2004; the Standard VSAP, Soils Verification Sampling & Analysis Plan [VSAP], Final, August 2004; and Post-Excavation (Ex) Survey Unit Design (SUD). An excerpt of the associated SUD is included in Appendix C of Attachment A to this OSC Report. Verification sampling was performed and the results demonstrate that the remaining soil meets the COs.

Since the Department of Energy (DOE) is the sole responsible party for verification of these PRSs, no Potentially Responsible Parties (PRPs) were sought to clean up the site. Monsanto Research Corporation, EG&G Mound Applied Technologies, and BWXT of Ohio, Inc were the operating contractors at the site from 1948 to 30 September 1988, from 1 October 1988 until 30 September 1997, and from 1 October 1997 until 31 December 2002 respectively. CH2M Hill Mound, Inc. became the site contractor for the Miamisburg Closure Project (MCP) effective January 1, 2003.

1.2 Organization of the Removal Actions

Table 1 lists the parties responding to the removal actions, and their responsibilities.

Table 1: Organization of the Removal Action

US Environmental Protection Agency (USEPA) SFR-5J 77 W. Jackson Street Chicago, IL 60604 312-353-2000	Timothy J. Fischer	Federal agency responsible for oversight
Ohio Environmental Protection Agency (OEPA) 401 E. Fifth Street Dayton, OH 45402-2911 937-285-6357	Brian K. Nickel	State agency responsible for oversight
US Dept. of Energy Miamisburg Closure Project 175 Tri-County Parkway Springdale, OH 45246 513-246-0071	Paul Lucas	On-scene Coordinator responsible for oversight and success
CH2M HILL Environmental Restoration Project 1075 Mound Road Miamisburg, OH 45343-3030 937-608-8220	Jim Fontaine	Provide OSC with technical assistance, administrative support, field oversight, sample management, site safety, photo, site documentation, and preparation of the OSC Report

1.3 Objectives

Documentation Objective. The objectives of this OSC Report are to describe the RA fieldwork and document successful completion of the project. Material quantities and disposition locations are presented in Table 2. Because this is a partial OSC Report, complete costs are not available to report. Total project cost for the UGL Removal Action will be reported in the last of the OSC Reports associated with the UGL Removal Action.

Table 2: Materials and Disposition

Type of Material	Quantity (cy)	Disposal Method	Disposal Location
Contaminated soil	7,813	Rail transport	Envirocare of Utah

Cleanup Objective. Contaminants of Concern (COCs) and COs/screening levels are identified in Table 3. Individual PRS COCs are identified in the table on page A73/164.

Table 3: Soil Cleanup Objectives (pCi/g)

COC	Cleanup Objective	Hot Spot Criteria
Actinium-227 +D	4.6	13.61
Bismuth-207	1.2	3.6
Cobalt-60	0.7	2.1

COC	Cleanup Objective	Hot Spot Criteria
Cesium-137 +D	3.8	10.62
Lead-210 +D	7.4	19.8
Protactinium-231 +D	4.0	11.81
Plutonium-238	55	165
Radium-226 +D	2.9	4.7
Thorium-230 +D	2.8	4.6
Thorium-232 +D	2.1	3.5
Uranium-238 +D	2.2	4.2
Arsenic	28.5 mg/kg	na
TPH (total petroleum hydrocarbons)	105 mg/kg	na

na: not available
+D: indicates pertinent daughters are included in the risk calculation.

The cleanup criteria are satisfied if all verification sample results are below CO or all sample results are below hot spot (HS) criteria and the 95% UCL (upper confidence limit) for the area of interest is less than the CO and the data set passes the Sign test.

Cleanup Objective. All final verification results were below their respective COs as identified in the Data Report, Table 1 (A19/164) with the exception of five results for Th-230 of 3.03, 3.86, 3.02, 3.65, and 3.08 pCi/g (CO of 2.8 pCi/g) and five results of Tl-208 of 0.5, 0.51, 0.54, 0.5, and 0.52 pCi/g. The Tl-208 10^{-5} Risk-Based Guideline Value based on the most conservative of Construction Worker and Site Employee scenarios is 0.498 pCi/g and is not inclusive of background or daughter product activity. Thallium-208 (Tl-208) is a daughter product in the Th-232 decay chain. Since Th-232 is a contaminant of concern (COC), and all Th-232 results meet the cleanup criteria, the Tl-208 exceedances are not considered significant because the CO for the parent nuclide (Th-232) accounts for daughter product activity. Therefore, no further action will be taken based on the parent nuclide (Th-232+D) results.

Hot Spot Criteria. The Hot Spot criteria for the COCs are presented in Table 3 above. There were no sample results that exceeded the hot spot criteria for any analyte.

1.4 Chronological Narrative of the Removal Actions

Table 4 presents a chronological narrative of events surrounding the RAs.

Table 4: Chronology of RA

Timeframe	Activity
August 2003	UGL RA authorized.
October 2003	PRS 154 & 238 Public Fact Sheet finalized.

Timeframe	Activity
October 2003	PRS 240 Public Fact Sheet finalized.
April 2004	PRS 405 Public Fact Sheet finalized.
April 2004	UGL Removal Plan approved.
October 2005-March 2006	RA fieldwork
October 2005-March 2006	Verification sampling & analysis.
June 2006	OSC Report prepared.

2.0 EFFECTIVENESS OF THE REMOVAL ACTIONS

The removal actions are complete, and the objectives of the Action Memoranda have been met. The limits of verification are identified on Figure 3 (see A9/164). Results of verification sampling and analysis are provided in Attachment A.

2.1 Actions Taken by Mound Personnel

CH2M Hill Mound, Inc. personnel planned and performed removal action oversight, and performed monitoring, sampling and analyses, and documentation. The project met the removal action objectives (Section 1.3), as outlined in the Action Memoranda. CH2M Hill Mound, Inc. personnel prepared this OSC Report, which shows that the Removal Action objectives were achieved.

2.2 Actions Taken by Local, State, and Federal Agencies

The DOE/MCP was the lead agency for the RA and provided the funding. DOE, USEPA, and OEPA had oversight responsibility for the RA and review of the Action Memorandum and OSC Report to ensure that the objectives were met.

2.3 Actions Taken by Subcontractors

Subcontractors involved in the project included:

- Earthline Inc. of Ohio – performed excavation and transportation of soil to the soil staging area.
- Terran of Ohio - performed site soil sampling, data management, and validation.
- Envirocare of Utah - disposal of radiologically contaminated waste via rail transport.

3.0 DIFFICULTIES ENCOUNTERED

3.1 Items that Affect the Removal Actions

No difficulties were encountered during the removal actions.

3.2 Issues of Intergovernmental Coordination

All DOE/OEPA/USEPA interactions were good. The agencies were updated informally on a regular basis, and formally at monthly Core Team meetings. The Mound 2000 Process worked well.

4.0 RECOMMENDATIONS

4.1 Means to Prevent a Recurrence

The contaminated soil was removed. Mound Removal Actions have regulator-approved work plans, each of which has a section that addresses runon/runoff controls. In addition, the site Storm Water Pollution Prevention Plan applies to the entire site and is monitored by the Environmental Compliance and Analytical Services group. As a result of the removal and implementation of runon/runoff protection, spread of contamination is prevented. After the removal action and the CERCLA process for the parcel are complete, the area will be transferred from Federal to private ownership. All State and Federal disposal rules will apply.

ATTACHMENT A

DATA REPORT

UGL Partial IV DATA REPORT

PRSs 153, 154, 238, 240, & 405

Building 125 Footprint &

Building 23 Footprint (eastern half)

June 2006

Rev. 0

Department of Energy

Miamisburg Closure Project

CH2MHILL

A1/164

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Acronyms

Ex	Excavation
pCi/g	picoCuries per gram
PRS	Potential Release Site
QC	quality control
RA	removal action
R&V	review and validation
SUD	Survey Unit Design
UGL	underground line
VSAP	Verification Sampling and Analysis Plan

1.0 PURPOSE

This Data Report provides documentation of sampling activities conducted in accordance with the Standard VSAP, Soils Verification Sampling and Analysis Plan [VSAP], Final, August 2004; required to close out Potential Release Sites (PRSs 153, 154, 238, 240, and 405) and, Building 125 footprint, and the eastern half of Building 23 footprint.

The purposes of this Data Report are to:

- document any variances to the VSAP/Post-Excavation (Ex) Survey Unit Design (SUD),
- present statistical and bias data (separately),
- present summary statistics and statistical analyses of the applicable data, including retrospective power curve, and
- provide documentation of data review and validation.

2.0 DOCUMENT ORGANIZATION / SUMMARY

The underground line (UGL) removal action (RA) consists of multiple sample events, each known as an "UGL Partial". This Data Report is for UGL Partial IV, which includes PRSs 153, 154, 238, 240, and 405, as well as the Building 125 footprint and the eastern half of Building 23 footprint. The location of the UGL Partial IV Area is shown on Figure 1. The location of PRSs 153, 154, 238, 240, and 405; and Building footprints 23 and 125 are shown on Figure 2. Survey Units (SUs) are shown on Figure 3.

Verification data for the western half of Building 23 footprint is included in the UGL Partial VII, SUs 2-5 Data Report, Rev.0, May 2006 (see SU4). Verification data for the eastern half of Building 23 footprint is included herein (within SU3).

Unless otherwise specified as a variance, sampling and analyses were conducted in accordance with the VSAP and Post-Ex SUD.

3.0 FIELD ACTIVITIES

Verification sampling activities occurred from October 2005 through March 2006. Verification locations are shown on Figures 4-11. The investigation was conducted in

accordance with the Standard VSAP, Soils Verification Sampling and Analysis Plan, Final August 2004.

Surface soil samples were collected in accordance with the procedures presented in the Mound Methods Compendiums S-001, S-002, S-020, S-028, S-029, and Q-002. Samples were collected and composited in-situ using the stainless steel trowels and placed in ½ liter plastic containers with lids. In some cases, a rock hammer or spud bar was used to loosen the soil prior to sample collection. Several locations were submerged within standing pools of water or not readily accessible for sampling personnel. Samples from these locations were collected using a trackhoe and composited using stainless steel trowels and bowls. All equipment was thoroughly decontaminated using non-phosphate detergent and distilled water between sample locations. The samples were field-screened by a radiological control technician at the site and screened by the Mound Soil Screening Laboratory prior to shipment to the contract laboratory.

4.0 DATA REVIEW / VALIDATION

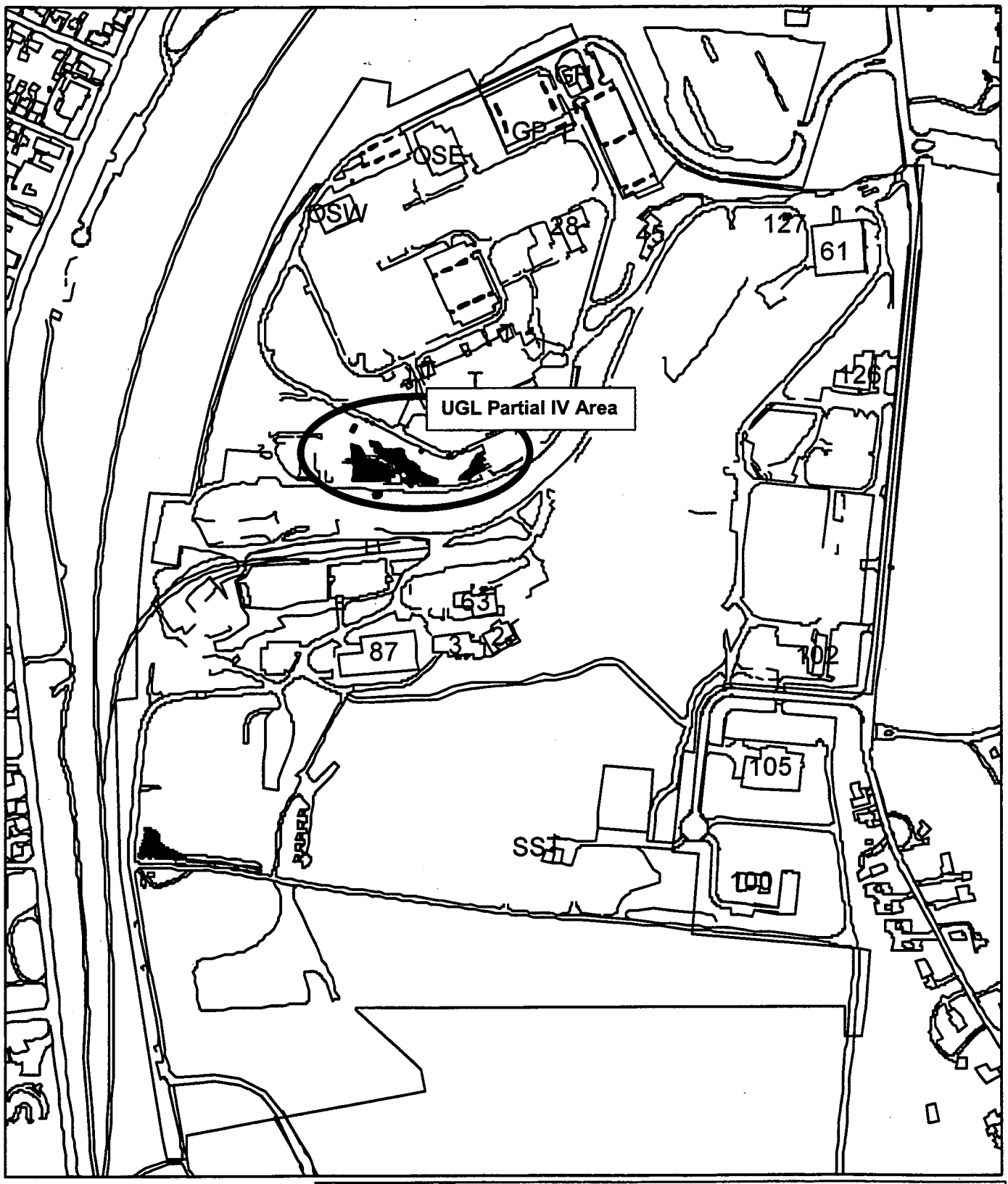
All data were reviewed and 10% of offsite data were validated.

Field and laboratory QC (quality control) were assessed as part of the data review and validation (R&V) process.

Documentation of review and validation (and related variances) is provided in Appendix E. Review and validation supports that the data are usable.

APPENDIX A

FIGURES



Scale in feet

0 200400 600 8001000

N

Figure 1:
Location of UGL Partial IV Area

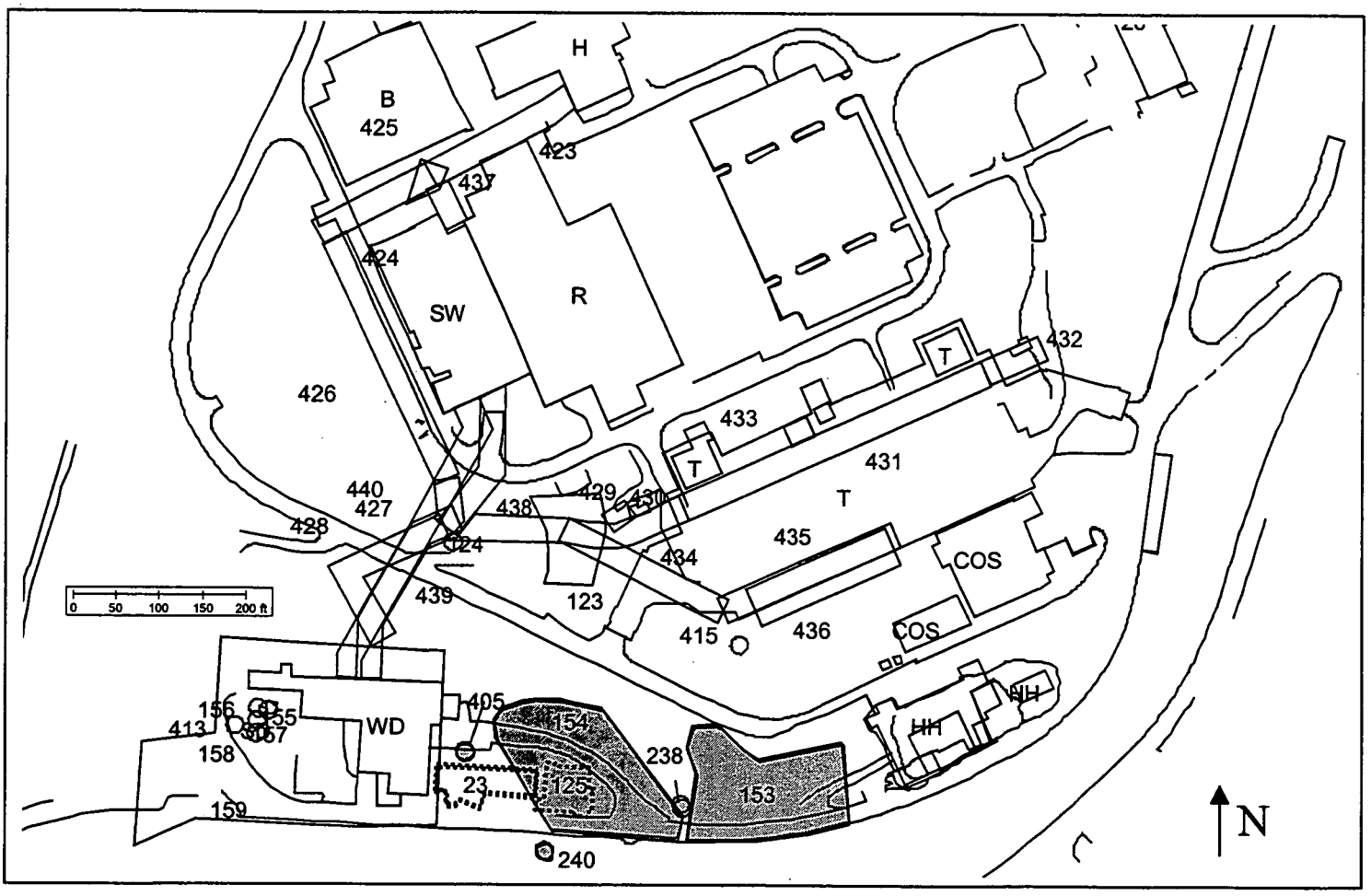


Figure 2: Location of PRSs 153, 154, 238, 240, & 405 and Building Footprints 23 and 125

A 8/164

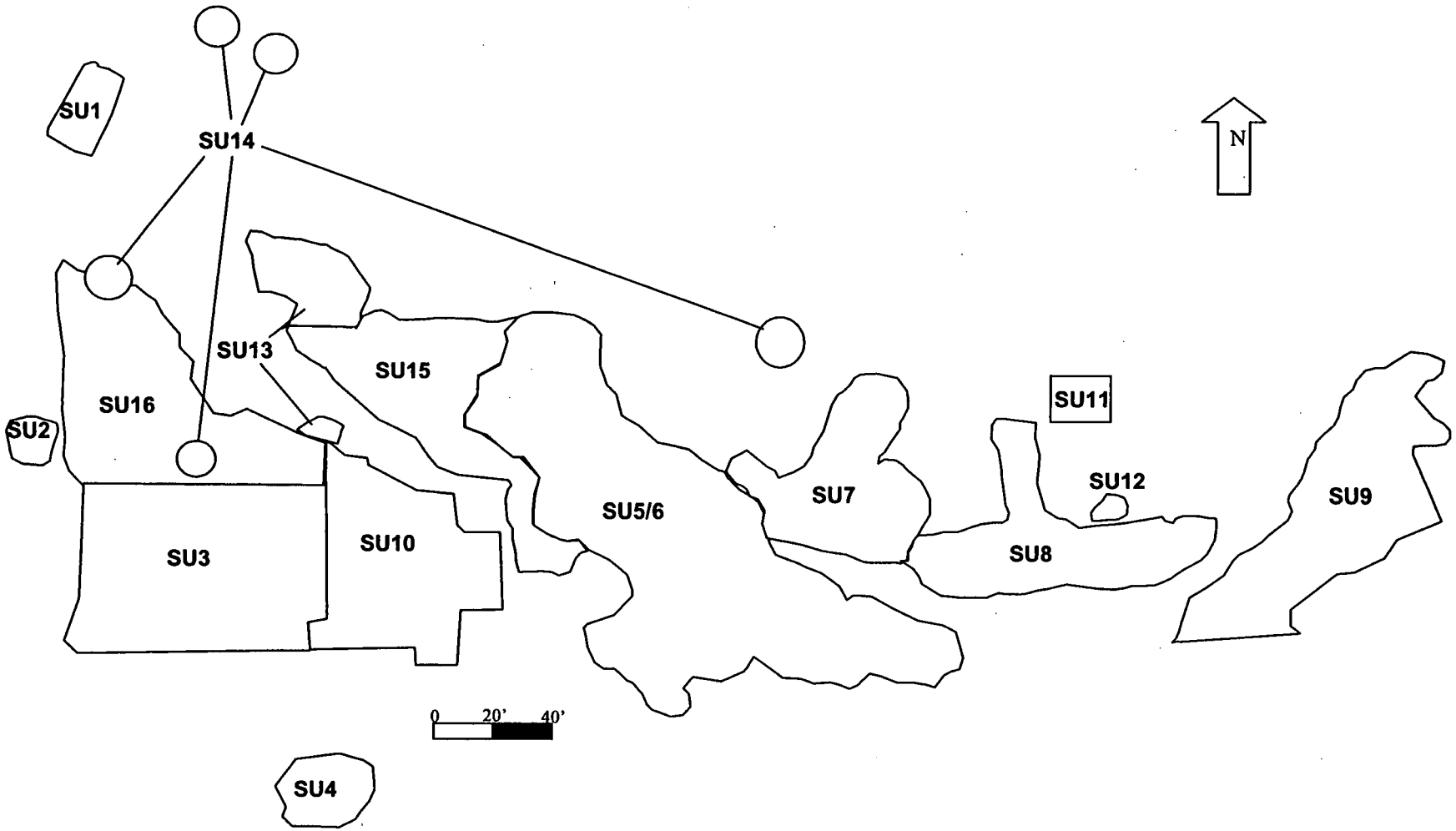


FIGURE 3: SU OVERVIEW

Note: see A72/164 for overlay of PRSs and SUs.

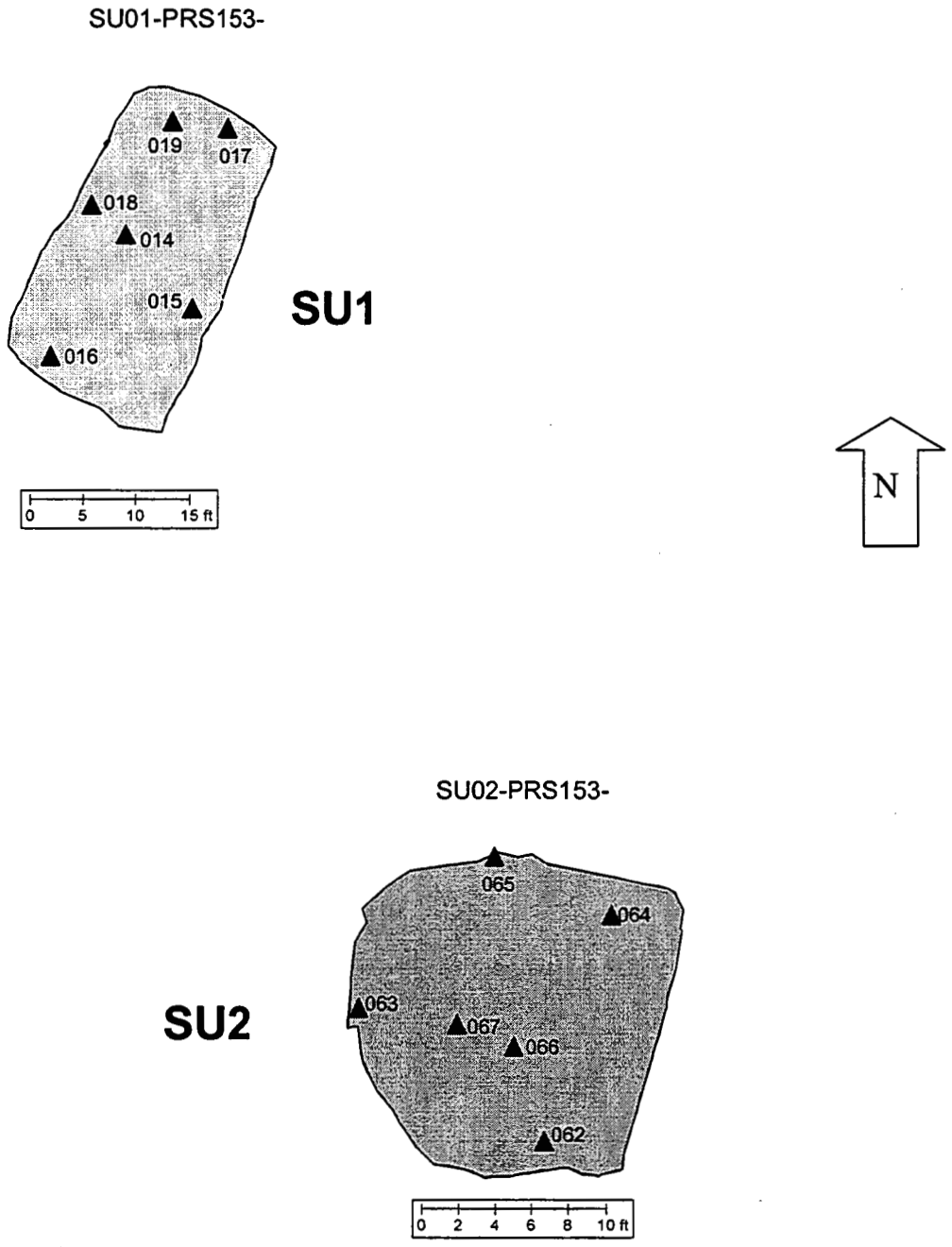


FIGURE 4: SUs 1 & 2 VERIFICATION LOCATIONS

A10/164

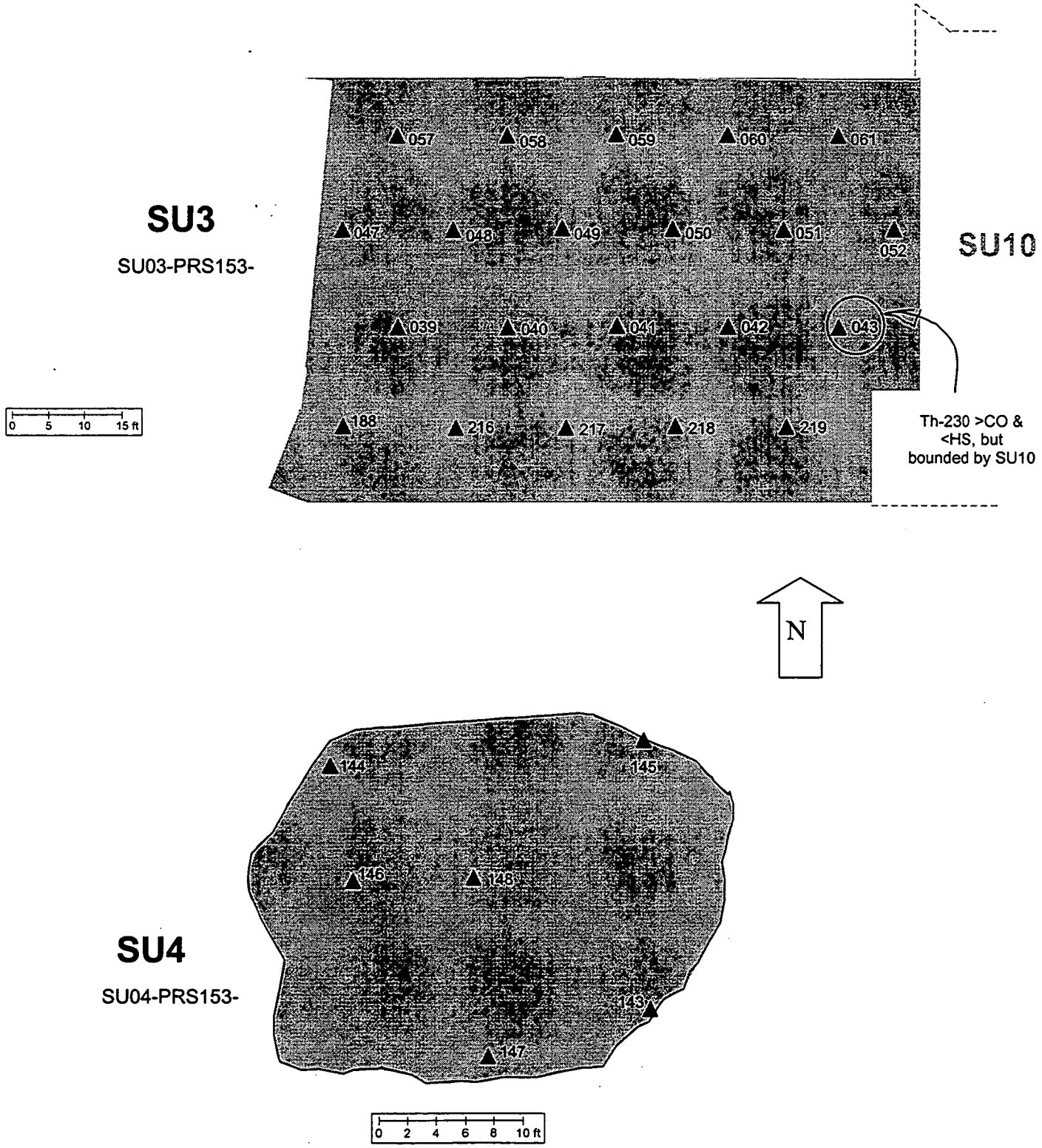


FIGURE 5: SUs 3 & 4 VERIFICATION LOCATIONS

A11/164

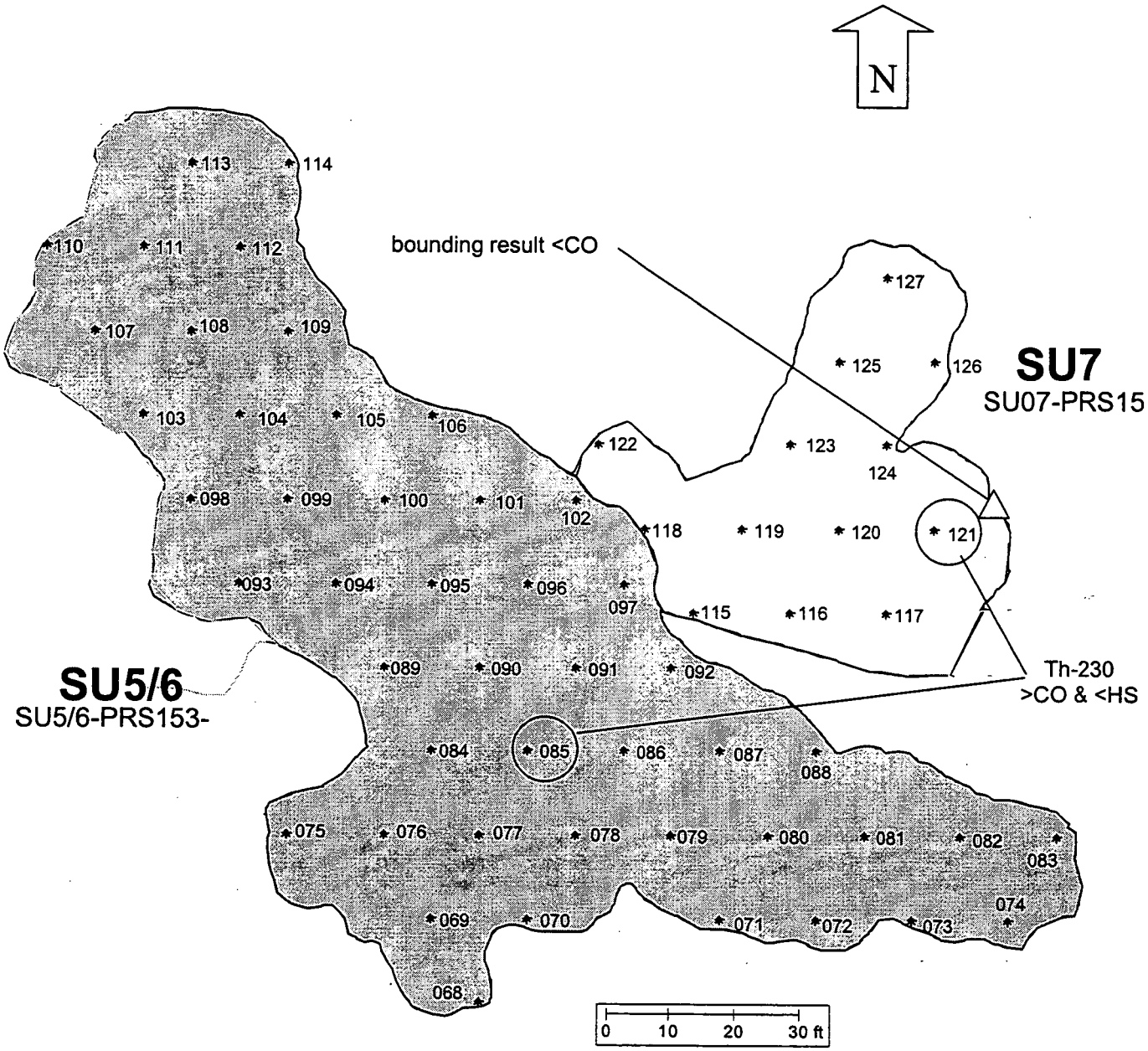


FIGURE 6: SUs 5-7 VERIFICATION LOCATIONS

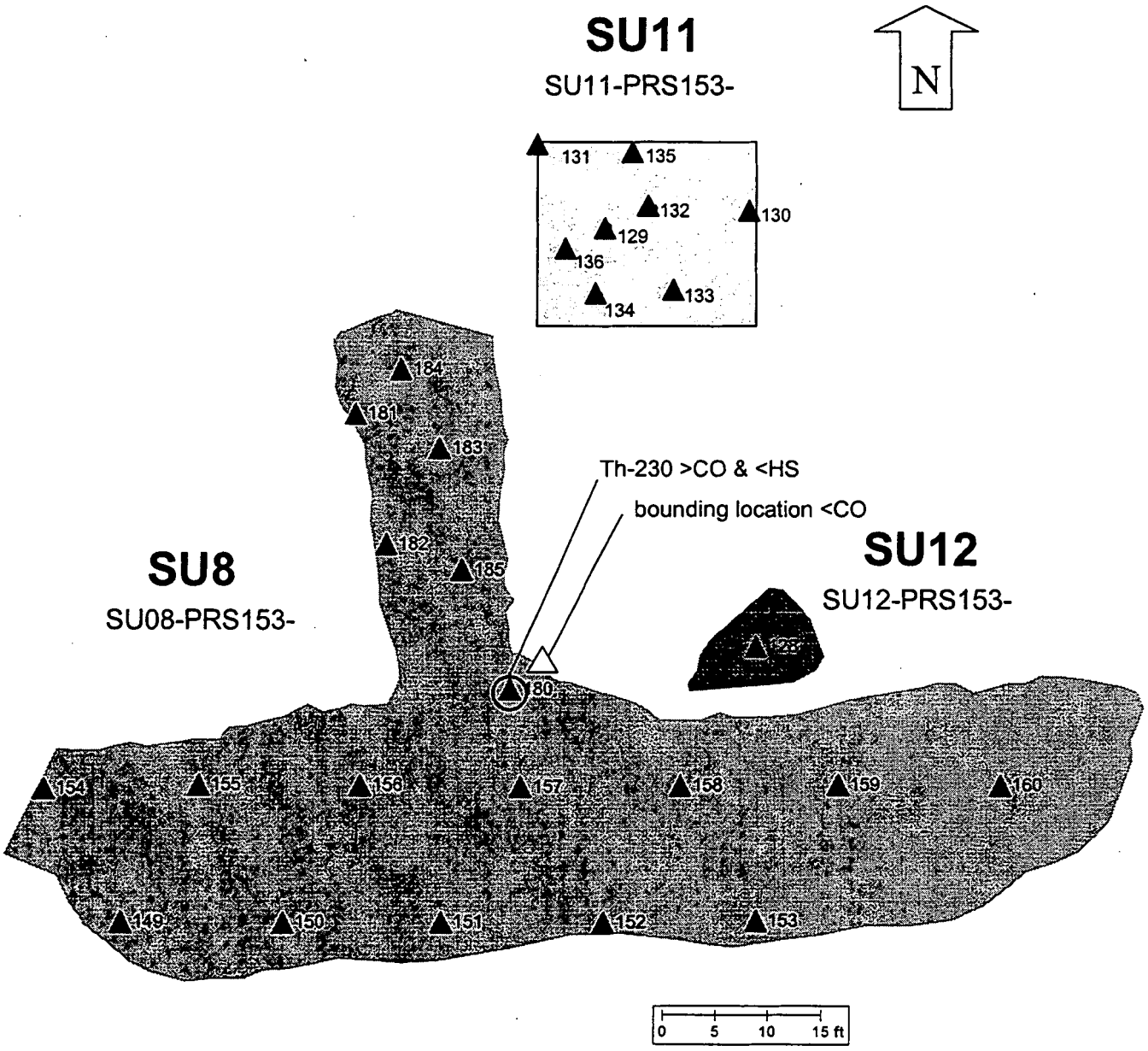


FIGURE 7: SUs 8, 11, & 12 VERIFICATION LOCATIONS

A13/164

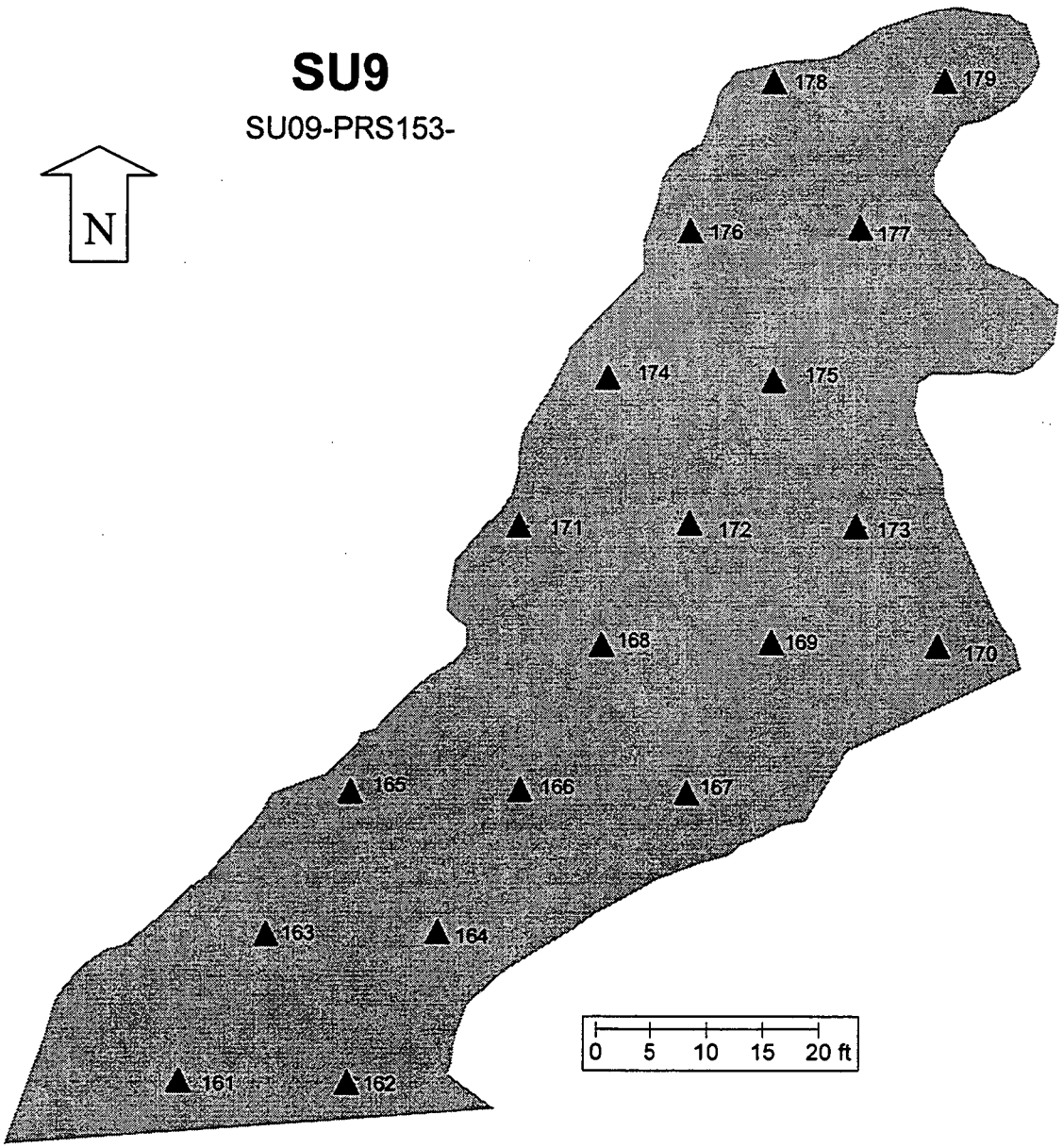


FIGURE 8: SU9 VERIFICATION LOCATIONS

A14/164

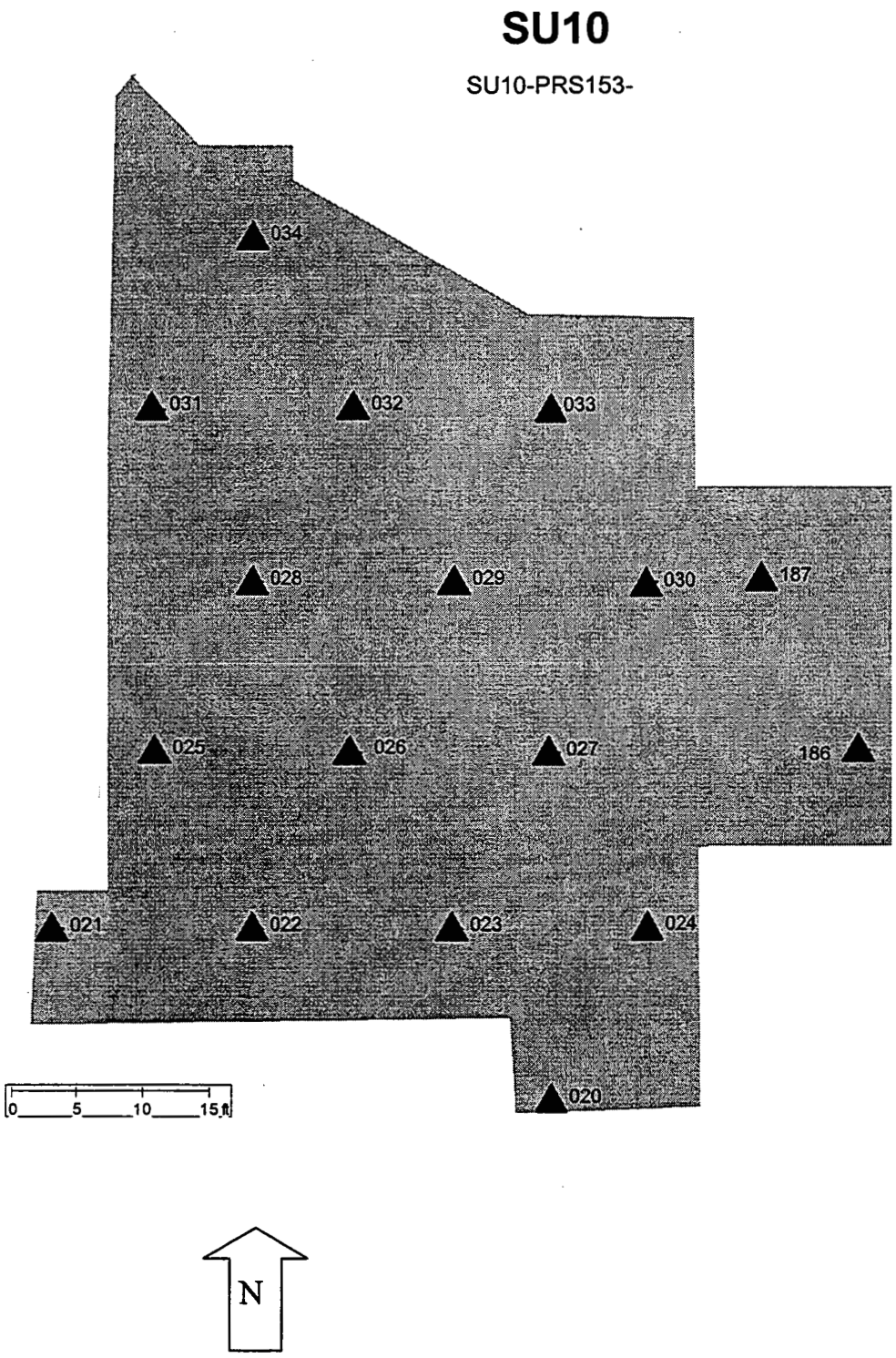


FIGURE 9: SU10 VERIFICATION LOCATIONS

A15/164

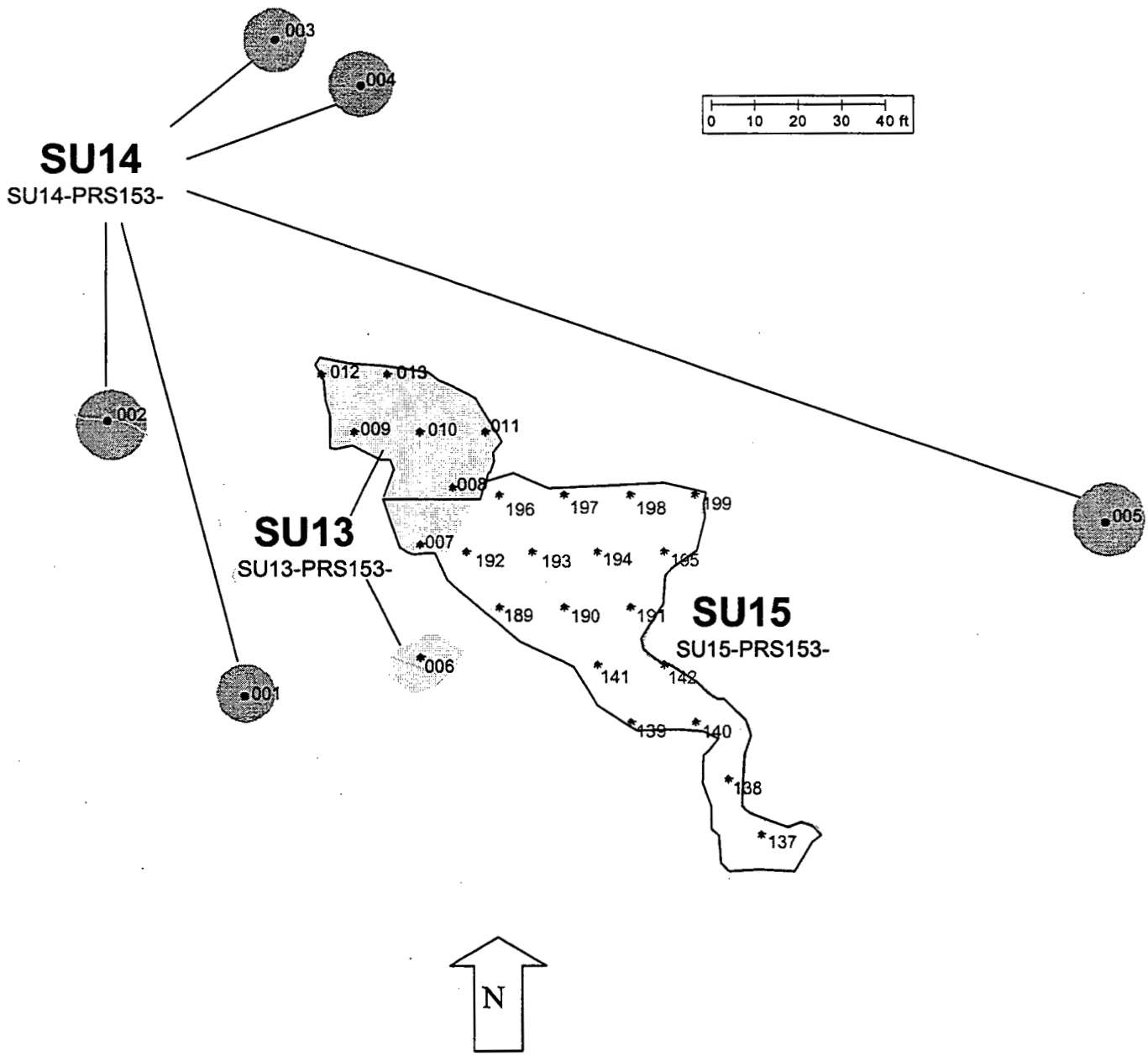


FIGURE 10: SUs 13-15 VERIFICATION LOCATIONS

A16/164

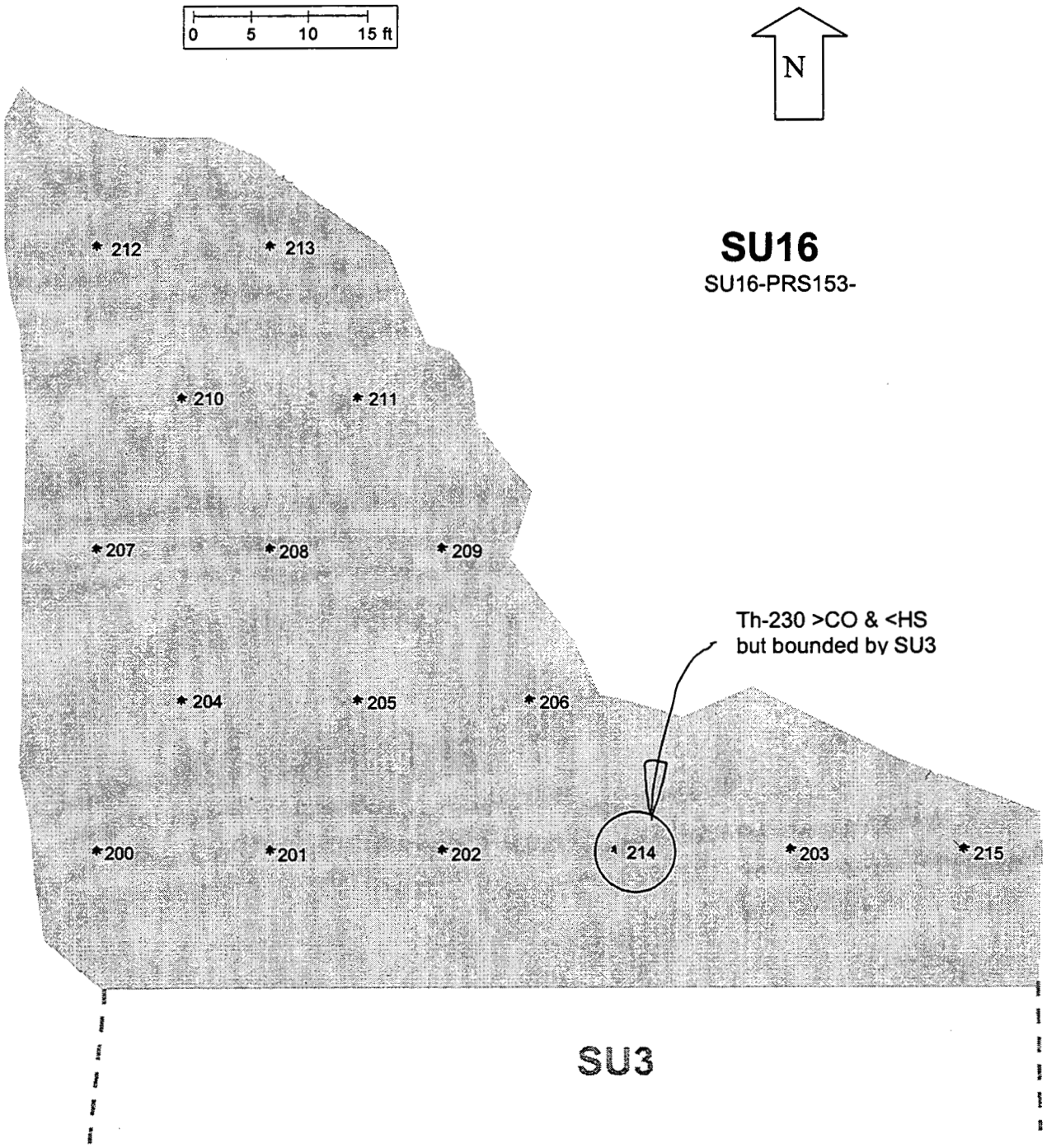


FIGURE 11: SU16 VERIFICATION LOCATIONS

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APPENDIX B

TABLES

A18/T64

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU14-153-001	02/06/2006	Thorium-232	2.1	0.860	0.020			1464772.839	598437.671
SU14-153-001	02/06/2006	Thorium-230	2.8	1.720	0.030			1464772.839	598437.671
SU14-153-001	02/06/2006	Thorium-228	2.6	0.870	0.030			1464772.839	598437.671
SU14-153-001	02/06/2006	Thallium-208	0.498	0.270	0.075			1464772.839	598437.671
SU14-153-001	02/06/2006	Radium-228	2.1	0.590	0.270			1464772.839	598437.671
SU14-153-001	02/06/2006	Radium-226	2.9	1.080	0.160			1464772.839	598437.671
SU14-153-001	02/06/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Potassium-40	47.8	20.100	0.800			1464772.839	598437.671
SU14-153-001	02/06/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Plutonium-238	55	0.139	0.027			1464772.839	598437.671
SU14-153-001	02/06/2006	Lead-214	8.9	1.240	0.130			1464772.839	598437.671
SU14-153-001	02/06/2006	Lead-212	16.6	0.850	0.110			1464772.839	598437.671
SU14-153-001	02/06/2006	Lead-210	7.4	2.100	2.100	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Cobalt-60	0.7	0.088	0.088	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Cesium-137	3.8	0.085	0.085	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Bismuth-214	1.17	1.080	0.160			1464772.839	598437.671
SU14-153-001	02/06/2006	Bismuth-212	9.87	1.710	1.300			1464772.839	598437.671
SU14-153-001	02/06/2006	Bismuth-210M	8.3	0.094	0.094	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Bismuth-207	1.2	0.065	0.065	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Americium-241	63	0.160	0.160	U	UJ	1464772.839	598437.671
SU14-153-001	02/06/2006	Actinium-228	1.93	0.590	0.270			1464772.839	598437.671
SU14-153-001	02/06/2006	Actinium-227	4.6	0.390	0.390	U	UJ	1464772.839	598437.671
SU14-153-002	02/07/2006	Thorium-232	2.1	0.160	0.026			1464741.988	598500.475
SU14-153-002	02/07/2006	Thorium-230	2.8	0.400	0.023			1464741.988	598500.475
SU14-153-002	02/07/2006	Thorium-228	2.6	0.168	0.032			1464741.988	598500.475
SU14-153-002	02/07/2006	Thallium-208	0.498	0.075	0.045			1464741.988	598500.475
SU14-153-002	02/07/2006	Radium-228	2.1	0.280	0.280	U	U	1464741.988	598500.475
SU14-153-002	02/07/2006	Radium-226	2.9	0.170	0.170	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Protactinium-231	4	1.100	1.100	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Potassium-40	47.8	2.460	1.800			1464741.988	598500.475
SU14-153-002	02/07/2006	Plutonium-239/240	62	0.031	0.031	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Plutonium-238	55	0.228	0.036			1464741.988	598500.475
SU14-153-002	02/07/2006	Lead-214	8.9	0.210	0.084			1464741.988	598500.475
SU14-153-002	02/07/2006	Lead-212	16.6	0.154	0.055			1464741.988	598500.475
SU14-153-002	02/07/2006	Lead-210	7.4	1.200	1.200	U	U	1464741.988	598500.475
SU14-153-002	02/07/2006	Cobalt-60	0.7	0.081	0.081	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Cesium-137	3.8	0.072	0.072	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Bismuth-210M	8.3	0.062	0.062	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Bismuth-207	1.2	0.042	0.042	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Americium-241	63	0.089	0.089	U	UJ	1464741.988	598500.475
SU14-153-002	02/07/2006	Actinium-227	4.6	0.190	0.190	U	UJ	1464741.988	598500.475
SU14-153-003	10/24/2005	Thorium-232	2.1	0.300	0.030			1464780.001	598587.520
SU14-153-003	10/24/2005	Thorium-230	2.8	0.520	0.030			1464780.001	598587.520
SU14-153-003	10/24/2005	Thorium-228	2.6	0.300	0.050			1464780.001	598587.520
SU14-153-003	10/24/2005	Radium-228	2.1	0.350	0.350	U	U	1464780.001	598587.520
SU14-153-003	10/24/2005	Radium-226	2.9	0.400	0.250		J	1464780.001	598587.520
SU14-153-003	10/24/2005	Protactinium-231	4	1.300	1.300	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Potassium-40	47.8	4.900	0.500			1464780.001	598587.520
SU14-153-003	10/24/2005	Plutonium-239/240	62	0.068	0.068	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Plutonium-238	55	3.140	0.060			1464780.001	598587.520
SU14-153-003	10/24/2005	Lead-214	8.9	0.340	0.090			1464780.001	598587.520
SU14-153-003	10/24/2005	Lead-210	7.4	1.500	1.500	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Cobalt-60	0.7	0.027	0.027	U	U	1464780.001	598587.520
SU14-153-003	10/24/2005	Cesium-137	3.8	0.073	0.073	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Bismuth-210M	8.3	0.070	0.070	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Bismuth-207	1.2	0.045	0.045	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Americium-241	63	0.110	0.110	U	UJ	1464780.001	598587.520
SU14-153-003	10/24/2005	Actinium-227	4.6	0.280	0.280	U	U	1464780.001	598587.520
SU14-153-004	10/24/2005	Thorium-232	2.1	0.290	0.050			1464799.834	598577.053
SU14-153-004	10/24/2005	Thorium-230	2.8	0.760	0.030			1464799.834	598577.053
SU14-153-004	10/24/2005	Thorium-228	2.6	0.510	0.060			1464799.834	598577.053
SU14-153-004	10/24/2005	Radium-228	2.1	0.360	0.360	U	U	1464799.834	598577.053
SU14-153-004	10/24/2005	Radium-226	2.9	0.340	0.260		J	1464799.834	598577.053
SU14-153-004	10/24/2005	Protactinium-231	4	1.600	1.600	U	UJ	1464799.834	598577.053
SU14-153-004	10/24/2005	Potassium-40	47.8	6.400	0.200			1464799.834	598577.053
SU14-153-004	10/24/2005	Plutonium-239/240	62	0.062	0.028	J	J	1464799.834	598577.053
SU14-153-004	10/24/2005	Plutonium-238	55	2.690	0.080			1464799.834	598577.053
SU14-153-004	10/24/2005	Lead-214	8.9	0.450	0.100			1464799.834	598577.053

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU14-153-004	10/24/2005	Lead-212	16.6	0.211	0.110			1464799.834	598577.053
SU14-153-004	10/24/2005	Lead-210	7.4	1.600	1.600	U	U	1464799.834	598577.053
SU14-153-004	10/24/2005	Cobalt-60	0.7	0.110	0.110	U	UJ	1464799.834	598577.053
SU14-153-004	10/24/2005	Cesium-137	3.8	0.100	0.100	U	UJ	1464799.834	598577.053
SU14-153-004	10/24/2005	Bismuth-210M	8.3	0.067	0.067	U	UJ	1464799.834	598577.053
SU14-153-004	10/24/2005	Bismuth-207	1.2	0.062	0.062	U	UJ	1464799.834	598577.053
SU14-153-004	10/24/2005	Americium-241	63	0.110	0.110	U	UJ	1464799.834	598577.053
SU14-153-004	10/24/2005	Actinium-227	4.6	0.320	0.320	U	UJ	1464799.834	598577.053
SU14-153-005	10/24/2005	Thorium-232	2.1	0.590	0.050			1464970.068	598476.786
SU14-153-005	10/24/2005	Thorium-230	2.8	1.180	0.050			1464970.068	598476.786
SU14-153-005	10/24/2005	Thorium-228	2.6	0.560	0.050			1464970.068	598476.786
SU14-153-005	10/24/2005	Radium-228	2.1	0.640	0.640	U	U	1464970.068	598476.786
SU14-153-005	10/24/2005	Radium-226	2.9	0.440	0.340		J	1464970.068	598476.786
SU14-153-005	10/24/2005	Protactinium-231	4	2.300	2.300	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Potassium-40	47.8	11.600	0.900			1464970.068	598476.786
SU14-153-005	10/24/2005	Plutonium-239/240	62	0.065	0.065	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Plutonium-238	55	0.106	0.049			1464970.068	598476.786
SU14-153-005	10/24/2005	Lead-214	8.9	0.620	0.160			1464970.068	598476.786
SU14-153-005	10/24/2005	Lead-212	16.6	0.490	0.130			1464970.068	598476.786
SU14-153-005	10/24/2005	Lead-210	7.4	2.400	2.400	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Cobalt-60	0.7	0.120	0.120	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Cesium-137	3.8	0.091	0.091	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Bismuth-210M	8.3	0.095	0.095	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Bismuth-207	1.2	0.067	0.067	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Americium-241	63	0.150	0.150	U	UJ	1464970.068	598476.786
SU14-153-005	10/24/2005	Actinium-227	4.6	0.370	0.370	U	UJ	1464970.068	598476.786
SU13-153-006	10/20/2005	Plutonium-239/240	62	0.018	0.018	U	UJ	1464813.022	598446.349
SU13-153-006	10/20/2005	Plutonium-238	55	0.021	0.021	U	UJ	1464813.022	598446.349
SU15-153-007	03/01/2006	Thorium-232	2.1	1.210	0.120			1464813.022	598472.330
SU15-153-007	03/01/2006	Thorium-230	2.8	1.170	0.130			1464813.022	598472.330
SU15-153-007	03/01/2006	Thorium-228	2.6	1.540	0.100			1464813.022	598472.330
SU15-153-007	03/01/2006	Thallium-208	0.498	0.320	0.100			1464813.022	598472.330
SU15-153-007	03/01/2006	Radium-228	2.1	0.800	0.280			1464813.022	598472.330
SU15-153-007	03/01/2006	Radium-226	2.9	0.500	0.360	J	J	1464813.022	598472.330
SU15-153-007	03/01/2006	Protactinium-231	4	1.800	1.800	U	U	1464813.022	598472.330
SU15-153-007	03/01/2006	Potassium-40	47.8	25.800	1.000			1464813.022	598472.330
SU15-153-007	03/01/2006	Lead-214	8.9	0.610	0.140			1464813.022	598472.330
SU15-153-007	03/01/2006	Lead-212	16.6	0.780	0.190			1464813.022	598472.330
SU15-153-007	03/01/2006	Lead-210	7.4	2.100	2.100	U	UJ	1464813.022	598472.330
SU15-153-007	03/01/2006	Cobalt-60	0.7	0.140	0.140	U	UJ	1464813.022	598472.330
SU15-153-007	03/01/2006	Cesium-137	3.8	0.120	0.120	U	UJ	1464813.022	598472.330
SU15-153-007	03/01/2006	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464813.022	598472.330
SU15-153-007	03/01/2006	Bismuth-207	1.2	0.095	0.095	U	UJ	1464813.022	598472.330
SU15-153-007	03/01/2006	Americium-241	63	0.180	0.180	U	UJ	1464813.022	598472.330
SU15-153-007	03/01/2006	Actinium-228	1.93	0.800	0.280			1464813.022	598472.330
SU15-153-007	03/01/2006	Actinium-227	4.6	0.450	0.450	U	UJ	1464813.022	598472.330
SU13-153-008	10/19/2005	Plutonium-239/240	62	0.024	0.024	U	UJ	1464820.522	598485.321
SU13-153-008	10/19/2005	Plutonium-238	55	0.520	0.030			1464820.522	598485.321
SU13-153-009	10/19/2005	Plutonium-239/240	62	0.029	0.023	J	J	1464798.022	598498.311
SU13-153-009	10/19/2005	Plutonium-238	55	0.590	0.030			1464798.022	598498.311
SU13-153-010	10/19/2005	Plutonium-239/240	62	0.021	0.021	U	UJ	1464813.022	598498.311
SU13-153-010	10/19/2005	Plutonium-238	55	0.040	0.040	U	UJ	1464813.022	598498.311
SU13-153-011	10/19/2005	Plutonium-239/240	62	0.021	0.021	U	UJ	1464828.022	598498.311
SU13-153-011	10/19/2005	Plutonium-238	55	0.039	0.039	U	U	1464828.022	598498.311
SU13-153-012	10/19/2005	Plutonium-239/240	62	0.022	0.022	U	UJ	1464790.522	598511.301
SU13-153-012	10/19/2005	Plutonium-238	55	0.071	0.033	J	J	1464790.522	598511.301
SU13-153-013	10/19/2005	Plutonium-239/240	62	0.034	0.034	U	UJ	1464805.522	598511.301
SU13-153-013	10/19/2005	Plutonium-238	55	0.037	0.037	U	UJ	1464805.522	598511.301
SU1-153-014	02/07/2006	Uranium-238	2.2	0.700	0.020			1464726.683	598548.706
SU1-153-014	02/07/2006	Uranium-235	3.2	0.042	0.022	J	J	1464726.683	598548.706
SU1-153-014	02/07/2006	Uranium-233/234	2	0.760	0.030			1464726.683	598548.706
SU1-153-015	02/07/2006	Uranium-238	2.2	0.800	0.020			1464732.026	598569.001
SU1-153-015	02/07/2006	Uranium-235	3.2	0.053	0.013	J	J	1464732.026	598569.001
SU1-153-015	02/07/2006	Uranium-233/234	2	0.750	0.020			1464732.026	598569.001
SU1-153-016	02/07/2006	Uranium-238	2.2	0.810	0.020			1464737.749	598547.798
SU1-153-016	02/07/2006	Uranium-235	3.2	0.031	0.031	U	U	1464737.749	598547.798
SU1-153-016	02/07/2006	Uranium-233/234	2	0.730	0.030			1464737.749	598547.798
SU1-153-017	02/07/2006	Uranium-238	2.2	0.820	0.020			1464737.388	598568.425

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Table 1: Offsite Verification Results

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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU1-153-017	02/07/2006	Uranium-235	3.2	0.052	0.014	J	J	1464737.388	598568.425
SU1-153-017	02/07/2006	Uranium-233/234	2	0.720	0.020			1464737.388	598568.425
SU1-153-018	02/07/2006	Uranium-238	2.2	0.930	0.020			1464742.222	598554.620
SU1-153-018	02/07/2006	Uranium-235	3.2	0.041	0.029	J	J	1464742.222	598554.620
SU1-153-018	02/07/2006	Uranium-233/234	2	0.720	0.020			1464742.222	598554.620
SU1-153-019D	02/07/2006	Uranium-238	2.2	0.740	0.030			1464733.723	598552.381
SU1-153-019	02/07/2006	Uranium-238	2.2	0.730	0.030			1464733.723	598552.381
SU1-153-019D	02/07/2006	Uranium-235	3.2	0.066	0.022	J	J	1464733.723	598552.381
SU1-153-019	02/07/2006	Uranium-235	3.2	0.028	0.027	J	J	1464733.723	598552.381
SU1-153-019	02/07/2006	Uranium-233/234	2	0.800	0.030			1464733.723	598552.381
SU1-153-019D	02/07/2006	Uranium-233/234	2	0.760	0.040			1464733.723	598552.381
SU10-(125)-153-020	02/06/2006	Thorium-232	2.1	0.290	0.024			1464850.175	598365.079
SU10-(125)-153-020	02/06/2006	Thorium-230	2.8	1.300	0.040		J	1464850.175	598365.079
SU10-(125)-153-020	02/06/2006	Thorium-228	2.6	0.322	0.036			1464850.175	598365.079
SU10-(125)-153-021	02/06/2006	Thorium-232	2.1	0.271	0.029			1464812.675	598378.069
SU10-(125)-153-021	02/06/2006	Thorium-230	2.8	0.830	0.040		J	1464812.675	598378.069
SU10-(125)-153-021	02/06/2006	Thorium-228	2.6	0.252	0.044			1464812.675	598378.069
SU10-(125)-153-022	02/06/2006	Thorium-232	2.1	0.370	0.032			1464827.675	598378.069
SU10-(125)-153-022	02/06/2006	Thorium-230	2.8	2.180	0.020		J	1464827.675	598378.069
SU10-(125)-153-022	02/06/2006	Thorium-228	2.6	0.390	0.050			1464827.675	598378.069
SU10-(125)-153-023	02/06/2006	Thorium-232	2.1	0.213	0.050			1464842.675	598378.069
SU10-(125)-153-023	02/06/2006	Thorium-230	2.8	1.130	0.040		J	1464842.675	598378.069
SU10-(125)-153-023	02/06/2006	Thorium-228	2.6	0.260	0.059			1464842.675	598378.069
SU10-(125)-153-024	10/17/2005	Thorium-232	2.1	0.840	0.050			1464857.675	598378.069
SU10-(125)-153-024	10/17/2005	Thorium-230	2.8	1.120	0.060			1464857.675	598378.069
SU10-(125)-153-024	10/17/2005	Thorium-228	2.6	0.800	0.070			1464857.675	598378.069
SU10-(125)-153-025	02/06/2006	Thorium-232	2.1	0.164	0.025			1464820.175	598391.060
SU10-(125)-153-025	02/06/2006	Thorium-230	2.8	0.880	0.040		J	1464820.175	598391.060
SU10-(125)-153-025	02/06/2006	Thorium-228	2.6	0.207	0.049			1464820.175	598391.060
SU10-(125)-153-026	02/06/2006	Thorium-232	2.1	0.860	0.020			1464835.175	598391.060
SU10-(125)-153-026	02/06/2006	Thorium-230	2.8	1.110	0.020		J	1464835.175	598391.060
SU10-(125)-153-026	02/06/2006	Thorium-228	2.6	0.830	0.040			1464835.175	598391.060
SU10-(125)-153-027	10/17/2005	Thorium-232	2.1	0.960	0.070			1464850.175	598391.060
SU10-(125)-153-027	10/17/2005	Thorium-230	2.8	1.670	0.060			1464850.175	598391.060
SU10-(125)-153-027	10/17/2005	Thorium-228	2.6	1.090	0.060			1464850.175	598391.060
SU10-(125)-153-028	02/06/2006	Thorium-232	2.1	1.180	0.020			1464827.675	598404.050
SU10-(125)-153-028	02/06/2006	Thorium-230	2.8	0.950	0.030		J	1464827.675	598404.050
SU10-(125)-153-028	02/06/2006	Thorium-228	2.6	1.030	0.040			1464827.675	598404.050
SU10-(125)-153-029	02/07/2006	Thorium-232	2.1	1.000	0.040			1464842.675	598404.050
SU10-(125)-153-029	02/07/2006	Thorium-230	2.8	1.040	0.030		J	1464842.675	598404.050
SU10-(125)-153-029	02/07/2006	Thorium-228	2.6	1.120	0.030			1464842.675	598404.050
SU10-(125)-153-030	10/17/2005	Thorium-232	2.1	0.690	0.050			1464857.675	598404.050
SU10-(125)-153-030	10/17/2005	Thorium-230	2.8	1.390	0.040			1464857.675	598404.050
SU10-(125)-153-030	10/17/2005	Thorium-228	2.6	0.630	0.060			1464857.675	598404.050
SU10-(125)-153-031	03/01/2006	Thorium-232	2.1	0.610	0.060			1464820.175	598417.040
SU10-(125)-153-031	03/01/2006	Thorium-230	2.8	2.800	0.070			1464820.175	598417.040
SU10-(125)-153-031	03/01/2006	Thorium-228	2.6	0.530	0.080			1464820.175	598417.040
SU10-(125)-153-032	10/17/2005	Thorium-232	2.1	0.570	0.030			1464835.175	598417.040
SU10-(125)-153-032	10/17/2005	Thorium-230	2.8	2.030	0.040			1464835.175	598417.040
SU10-(125)-153-032	10/17/2005	Thorium-228	2.6	0.600	0.060			1464835.175	598417.040
SU10-(125)-153-033	02/06/2006	Thorium-232	2.1	0.630	0.080			1464850.175	598417.040
SU10-(125)-153-033	02/06/2006	Thorium-230	2.8	1.380	0.060		J	1464850.175	598417.040
SU10-(125)-153-033	02/06/2006	Thorium-228	2.6	0.690	0.090			1464850.175	598417.040
SU10-(125)-153-034	10/17/2005	Thorium-232	2.1	0.570	0.030			1464827.675	598430.031
SU10-(125)-153-034	10/17/2005	Thorium-230	2.8	2.390	0.050			1464827.675	598430.031
SU10-(125)-153-034	10/17/2005	Thorium-228	2.6	0.760	0.080			1464827.675	598430.031
SU3-153-039	02/06/2006	Thorium-232	2.1	0.374	0.022			1464744.580	598393.155
SU3-153-039	02/06/2006	Thorium-230	2.8	1.310	0.030			1464744.580	598393.155
SU3-153-039	02/06/2006	Thorium-228	2.6	0.440	0.030			1464744.580	598393.155
SU3-153-039	02/06/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1464744.580	598393.155
SU3-153-039	02/06/2006	Plutonium-238	55	0.308	0.034			1464744.580	598393.155
SU3-153-040	02/06/2006	Thorium-232	2.1	0.228	0.018			1464759.580	598393.155
SU3-153-040	02/06/2006	Thorium-230	2.8	0.720	0.020			1464759.580	598393.155
SU3-153-040	02/06/2006	Thorium-228	2.6	0.264	0.033			1464759.580	598393.155
SU3-153-040	02/06/2006	Plutonium-239/240	62	0.016	0.016	U	UJ	1464759.580	598393.155
SU3-153-040	02/06/2006	Plutonium-238	55	0.088	0.035	J	J	1464759.580	598393.155
SU3-153-041	02/06/2006	Thorium-232	2.1	0.390	0.013			1464774.580	598393.155
SU3-153-041	02/06/2006	Thorium-230	2.8	1.090	0.020			1464774.580	598393.155

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU3-153-041	02/06/2006	Thorium-228	2.6	0.302	0.033			1464774.580	598393.155
SU3-153-041	02/06/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1464774.580	598393.155
SU3-153-041	02/06/2006	Plutonium-238	55	0.032	0.032	U	U	1464774.580	598393.155
SU3-153-042	02/06/2006	Thorium-232	2.1	0.640	0.020			1464789.580	598393.155
SU3-153-042D	02/06/2006	Thorium-232	2.1	0.610	0.020			1464789.580	598393.155
SU3-153-042D	02/06/2006	Thorium-230	2.8	1.890	0.020			1464789.580	598393.155
SU3-153-042	02/06/2006	Thorium-230	2.8	1.720	0.030			1464789.580	598393.155
SU3-153-042D	02/06/2006	Thorium-228	2.6	0.550	0.030			1464789.580	598393.155
SU3-153-042	02/06/2006	Thorium-228	2.6	0.530	0.040			1464789.580	598393.155
SU3-153-042D	02/06/2006	Plutonium-239/240	62	0.026	0.026	U	UJ	1464789.580	598393.155
SU3-153-042	02/06/2006	Plutonium-239/240	62	0.019	0.019	U	UJ	1464789.580	598393.155
SU3-153-042	02/06/2006	Plutonium-238	55	0.171	0.030			1464789.580	598393.155
SU3-153-042D	02/06/2006	Plutonium-238	55	0.137	0.029			1464789.580	598393.155
SU3-153-043	02/06/2006	Thorium-232	2.1	0.500	0.020			1464804.580	598393.155
SU3-153-043	**02/06/2006**	**Thorium-230**	**2.8**	**3.030**	**0.020**			1464804.580	598393.155
SU3-153-043	02/06/2006	Thorium-228	2.6	0.364	0.029			1464804.580	598393.155
SU3-153-043	02/06/2006	Plutonium-239/240	62	0.028	0.028	U	UJ	1464804.580	598393.155
SU3-153-043	02/06/2006	Plutonium-238	55	0.217	0.028			1464804.580	598393.155
SU3-153-047	02/06/2006	Thorium-232	2.1	0.580	0.010			1464737.080	598406.145
SU3-153-047	02/06/2006	Thorium-230	2.8	0.900	0.020			1464737.080	598406.145
SU3-153-047	02/06/2006	Thorium-228	2.6	0.530	0.030			1464737.080	598406.145
SU3-153-047	02/06/2006	Plutonium-239/240	62	0.036	0.036	U	UJ	1464737.080	598406.145
SU3-153-047	02/06/2006	Plutonium-238	55	0.210	0.049			1464737.080	598406.145
SU3-153-048	02/06/2006	Thorium-232	2.1	0.232	0.026			1464752.080	598406.145
SU3-153-048	02/06/2006	Thorium-230	2.8	0.880	0.030		J	1464752.080	598406.145
SU3-153-048	02/06/2006	Thorium-228	2.6	0.362	0.022			1464752.080	598406.145
SU3-153-048	02/06/2006	Plutonium-239/240	62	0.011	0.011	U	UJ	1464752.080	598406.145
SU3-153-048	02/06/2006	Plutonium-238	55	0.192	0.043			1464752.080	598406.145
SU3-153-049	02/06/2006	Thorium-232	2.1	1.490	0.040			1464767.080	598406.145
SU3-153-049	02/06/2006	Thorium-230	2.8	1.330	0.050		J	1464767.080	598406.145
SU3-153-049	02/06/2006	Thorium-228	2.6	1.240	0.050			1464767.080	598406.145
SU3-153-049	02/06/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1464767.080	598406.145
SU3-153-049	02/06/2006	Plutonium-238	55	0.024	0.024	U	UJ	1464767.080	598406.145
SU3-153-050	02/06/2006	Thorium-232	2.1	0.960	0.030			1464782.080	598406.145
SU3-153-050	02/06/2006	Thorium-230	2.8	0.790	0.030		J	1464782.080	598406.145
SU3-153-050	02/06/2006	Thorium-228	2.6	0.930	0.030			1464782.080	598406.145
SU3-153-050	02/06/2006	Plutonium-239/240	62	0.020	0.020	U	U	1464782.080	598406.145
SU3-153-050	02/06/2006	Plutonium-238	55	0.039	0.039	U	UJ	1464782.080	598406.145
SU3-153-051	02/06/2006	Thorium-232	2.1	1.210	0.030			1464797.080	598406.145
SU3-153-051	02/06/2006	Thorium-230	2.8	1.040	0.030		J	1464797.080	598406.145
SU3-153-051	02/06/2006	Thorium-228	2.6	1.330	0.040			1464797.080	598406.145
SU3-153-051	02/06/2006	Plutonium-239/240	62	0.022	0.022	U	UJ	1464797.080	598406.145
SU3-153-051	02/06/2006	Plutonium-238	55	0.036	0.036	U	UJ	1464797.080	598406.145
SU3-153-052	02/06/2006	Thorium-232	2.1	0.860	0.010			1464812.080	598406.145
SU3-153-052	02/06/2006	Thorium-230	2.8	1.610	0.010		J	1464812.080	598406.145
SU3-153-052	02/06/2006	Thorium-228	2.6	0.940	0.040			1464812.080	598406.145
SU3-153-052	02/06/2006	Plutonium-239/240	62	0.023	0.023	U	UJ	1464812.080	598406.145
SU3-153-052	02/06/2006	Plutonium-238	55	0.045	0.040	J	J	1464812.080	598406.145
SU3-153-057	02/06/2006	Thorium-232	2.1	0.317	0.011			1464744.580	598419.135
SU3-153-057	02/06/2006	Thorium-230	2.8	1.170	0.020		J	1464744.580	598419.135
SU3-153-057	02/06/2006	Thorium-228	2.6	0.409	0.018			1464744.580	598419.135
SU3-153-057	02/06/2006	Plutonium-239/240	62	0.028	0.011	J	J	1464744.580	598419.135
SU3-153-057	02/06/2006	Plutonium-238	55	0.473	0.033			1464744.580	598419.135
SU3-153-058	02/06/2006	Thorium-232	2.1	0.550	0.030			1464759.580	598419.135
SU3-153-058	02/06/2006	Thorium-230	2.8	2.090	0.010		J	1464759.580	598419.135
SU3-153-058	02/06/2006	Thorium-228	2.6	0.630	0.020			1464759.580	598419.135
SU3-153-058	02/06/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1464759.580	598419.135
SU3-153-058	02/06/2006	Plutonium-238	55	0.940	0.030			1464759.580	598419.135
SU3-153-059	02/06/2006	Thorium-232	2.1	0.780	0.020			1464774.580	598419.135
SU3-153-059	02/06/2006	Thorium-230	2.8	0.920	0.030		J	1464774.580	598419.135
SU3-153-059	02/06/2006	Thorium-228	2.6	0.770	0.040			1464774.580	598419.135
SU3-153-059	02/06/2006	Plutonium-239/240	62	0.033	0.033	U	UJ	1464774.580	598419.135
SU3-153-059	02/06/2006	Plutonium-238	55	0.058	0.039	J	J	1464774.580	598419.135
SU3-153-060	02/06/2006	Thorium-232	2.1	0.470	0.030			1464789.580	598419.135
SU3-153-060	02/06/2006	Thorium-230	2.8	0.720	0.020		J	1464789.580	598419.135
SU3-153-060	02/06/2006	Thorium-228	2.6	0.420	0.050			1464789.580	598419.135
SU3-153-060	02/06/2006	Plutonium-239/240	62	0.011	0.010	J	J	1464789.580	598419.135
SU3-153-060	02/06/2006	Plutonium-238	55	0.064	0.034	J	J	1464789.580	598419.135

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU3-153-061	03/06/2006	Thorium-232	2.1	1.370	0.040			1464804.580	598419.135
SU3-153-061	03/06/2006	Thorium-230	2.8	1.140	0.070			1464804.580	598419.135
SU3-153-061	03/06/2006	Thorium-228	2.6	1.080	0.070			1464804.580	598419.135
SU3-153-061	03/06/2006	Plutonium-239/240	62	0.066	0.066	U	UJ	1464804.580	598419.135
SU3-153-061	03/06/2006	Plutonium-238	55	0.077	0.077	U	UJ	1464804.580	598419.135
SU2-153-062	02/07/2006	TPH (as Diesel) (mg/kg)	105	34.000	34.000	U	UJ	1464710.258	598440.007
SU2-153-062	02/07/2006	Thorium-232	2.1	0.880	0.030			1464710.258	598440.007
SU2-153-062	02/07/2006	Thorium-230	2.8	0.890	0.060		J	1464710.258	598440.007
SU2-153-062	02/07/2006	Thorium-228	2.6	0.850	0.080			1464710.258	598440.007
SU2-153-062	02/07/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1464710.258	598440.007
SU2-153-062	02/07/2006	Plutonium-238	55	1.870	0.030		J	1464710.258	598440.007
SU2-153-063	02/07/2006	TPH (as Diesel) (mg/kg)	105	29.000	29.000	U	UJ	1464715.812	598450.985
SU2-153-063	02/07/2006	Thorium-232	2.1	1.150	0.030			1464715.812	598450.985
SU2-153-063	02/07/2006	Thorium-230	2.8	0.870	0.050		J	1464715.812	598450.985
SU2-153-063	02/07/2006	Thorium-228	2.6	1.190	0.080			1464715.812	598450.985
SU2-153-063	02/07/2006	Plutonium-239/240	62	0.019	0.019	U	UJ	1464715.812	598450.985
SU2-153-063	02/07/2006	Plutonium-238	55	1.680	0.030		J	1464715.812	598450.985
SU2-153-064	02/07/2006	TPH (as Diesel) (mg/kg)	105	27.000	27.000	U	UJ	1464720.074	598447.167
SU2-153-064	02/07/2006	Thorium-232	2.1	0.670	0.080			1464720.074	598447.167
SU2-153-064	02/07/2006	Thorium-230	2.8	0.890	0.110		J	1464720.074	598447.167
SU2-153-064	02/07/2006	Thorium-228	2.6	1.060	0.120			1464720.074	598447.167
SU2-153-064	02/07/2006	Plutonium-239/240	62	0.019	0.019	U	UJ	1464720.074	598447.167
SU2-153-064	02/07/2006	Plutonium-238	55	0.038	0.024	J	J	1464720.074	598447.167
SU2-153-065	02/07/2006	TPH (as Diesel) (mg/kg)	105	31.000	31.000	U	UJ	1464723.386	598439.413
SU2-153-065D	02/07/2006	TPH (as Diesel) (mg/kg)	105	29.000	29.000	U	UJ	1464723.386	598439.413
SU2-153-065	02/07/2006	Thorium-232	2.1	1.300	0.040			1464723.386	598439.413
SU2-153-065D	02/07/2006	Thorium-232	2.1	1.200	0.020			1464723.386	598439.413
SU2-153-065	02/07/2006	Thorium-230	2.8	1.020	0.020		J	1464723.386	598439.413
SU2-153-065D	02/07/2006	Thorium-230	2.8	0.960	0.060		J	1464723.386	598439.413
SU2-153-065	02/07/2006	Thorium-228	2.6	1.420	0.060			1464723.386	598439.413
SU2-153-065D	02/07/2006	Thorium-228	2.6	1.080	0.080			1464723.386	598439.413
SU2-153-065	02/07/2006	Plutonium-239/240	62	0.025	0.025	U	UJ	1464723.386	598439.413
SU2-153-065D	02/07/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1464723.386	598439.413
SU2-153-065D	02/07/2006	Plutonium-238	55	0.129	0.020		J	1464723.386	598439.413
SU2-153-065	02/07/2006	Plutonium-238	55	0.059	0.029	J	J	1464723.386	598439.413
SU2-153-066	02/07/2006	TPH (as Diesel) (mg/kg)	105	29.000	29.000	U	UJ	1464716.110	598441.439
SU2-153-066	02/07/2006	Thorium-232	2.1	0.990	0.040			1464716.110	598441.439
SU2-153-066	02/07/2006	Thorium-230	2.8	0.850	0.070		J	1464716.110	598441.439
SU2-153-066	02/07/2006	Thorium-228	2.6	0.840	0.090			1464716.110	598441.439
SU2-153-066	02/07/2006	Plutonium-239/240	62	0.017	0.017	U	UJ	1464716.110	598441.439
SU2-153-066	02/07/2006	Plutonium-238	55	2.040	0.020		J	1464716.110	598441.439
SU2-153-067	02/07/2006	TPH (as Diesel) (mg/kg)	105	31.000	31.000	U	UJ	1464712.407	598436.712
SU2-153-067	02/07/2006	Thorium-232	2.1	1.110	0.050			1464712.407	598436.712
SU2-153-067	02/07/2006	Thorium-230	2.8	1.130	0.050		J	1464712.407	598436.712
SU2-153-067	02/07/2006	Thorium-228	2.6	1.350	0.100			1464712.407	598436.712
SU2-153-067	02/07/2006	Plutonium-239/240	62	0.016	0.016	U	UJ	1464712.407	598436.712
SU2-153-067	02/07/2006	Plutonium-238	55	2.630	0.030		J	1464712.407	598436.712
SU5&6-153-068	10/20/2005	Uranium-238	2.2	0.720	0.040			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Uranium-235	3.2	0.050	0.034	J	J	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Uranium-233/234	2	0.810	0.050			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Thorium-232	2.1	1.300	0.040			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Thorium-230	2.8	0.900	0.030			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Thorium-228	2.6	1.120	0.050			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Thallium-208	0.498	0.286	0.090			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Radium-228	2.1	0.810	0.380			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Radium-226	2.9	0.540	0.340		J	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Protactinium-231	4	2.600	2.600	U	U	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Potassium-40	47.8	28.100	0.800			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Lead-214	8.9	0.450	0.150			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Lead-212	16.6	0.810	0.150			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Lead-210	7.4	2.400	2.400	U	U	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Cobalt-60	0.7	0.150	0.150	U	UJ	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Cesium-137	3.8	0.110	0.110	U	UJ	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Bismuth-210M	8.3	0.100	0.100	U	UJ	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Bismuth-207	1.2	0.065	0.065	U	UJ	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Americium-241	63	0.190	0.190	U	UJ	1464937.823	598349.007
SU5&6-153-068	10/20/2005	Actinium-228	1.93	0.810	0.380			1464937.823	598349.007
SU5&6-153-068	10/20/2005	Actinium-227	4.6	0.480	0.480	U	UJ	1464937.823	598349.007

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-069	10/20/2005	Uranium-238	2.2	0.560	0.070			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Uranium-235	3.2	0.056	0.056	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Uranium-233/234	2	0.920	0.070			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Thorium-232	2.1	1.450	0.030			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Thorium-230	2.8	1.280	0.060			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Thorium-228	2.6	1.230	0.060			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Thallium-208	0.498	0.410	0.120			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Radium-228	2.1	0.800	0.390			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Radium-226	2.9	0.650	0.410		J	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Protactinium-231	4	3.100	3.100	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Potassium-40	47.8	31.000	0.700			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Lead-214	8.9	0.610	0.180			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Lead-212	16.6	1.010	0.190			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Lead-210	7.4	2.400	2.400	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Cobalt-60	0.7	0.140	0.140	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Cesium-137	3.8	0.120	0.120	U	U	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Bismuth-207	1.2	0.073	0.073	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Americium-241	63	0.220	0.220	U	UJ	1464930.323	598361.997
SU5&6-153-069	10/20/2005	Actinium-228	1.93	0.800	0.390			1464930.323	598361.997
SU5&6-153-069	10/20/2005	Actinium-227	4.6	0.570	0.570	U	UJ	1464930.323	598361.997
SU5&6-153-070	10/20/2005	Uranium-238	2.2	0.740	0.050			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Uranium-235	3.2	0.052	0.052	U	UJ	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Uranium-233/234	2	0.660	0.070			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Thorium-232	2.1	1.560	0.050			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Thorium-230	2.8	1.060	0.050			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Thorium-228	2.6	1.410	0.070			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Thallium-208	0.498	0.440	0.100			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Radium-228	2.1	0.770	0.400			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Radium-226	2.9	0.610	0.410		J	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Protactinium-231	4	3.100	3.100	U	U	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Potassium-40	47.8	40.500	1.100			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Lead-214	8.9	0.740	0.170			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Lead-212	16.6	1.390	0.210			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Lead-210	7.4	2.500	2.500	U	UJ	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Cobalt-60	0.7	0.150	0.150	U	UJ	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Cesium-137	3.8	0.100	0.100	U	U	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Bismuth-207	1.2	0.100	0.100	U	UJ	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Americium-241	63	0.210	0.210	U	UJ	1464945.323	598361.997
SU5&6-153-070	10/20/2005	Actinium-228	1.93	0.770	0.400			1464945.323	598361.997
SU5&6-153-070	10/20/2005	Actinium-227	4.6	0.540	0.540	U	U	1464945.323	598361.997
SU5&6-153-071	10/20/2005	Uranium-238	2.2	0.890	0.010			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Uranium-235	3.2	0.056	0.026	J	J	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Uranium-233/234	2	0.790	0.020			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Thorium-232	2.1	1.160	0.020			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Thorium-230	2.8	1.710	0.030		J	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Thorium-228	2.6	1.190	0.030			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Thallium-208	0.498	0.370	0.100			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Radium-228	2.1	0.840	0.270			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Radium-226	2.9	0.820	0.170	J	J	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Protactinium-231	4	2.700	2.700	U	U	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Potassium-40	47.8	32.000	0.900			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Lead-214	8.9	0.960	0.150			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Lead-212	16.6	0.860	0.170			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Lead-210	7.4	2.200	2.200	U	UJ	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Cobalt-60	0.7	0.120	0.120	U	UJ	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Cesium-137	3.8	0.099	0.099	U	UJ	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Bismuth-214	1.17	0.820	0.170			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Bismuth-210M	8.3	0.100	0.100	U	UJ	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Bismuth-207	1.2	0.082	0.082	U	UJ	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Americium-241	63	0.170	0.170	U	UJ	1464975.323	598361.997
SU5&6-153-071	10/20/2005	Actinium-228	1.93	0.840	0.270			1464975.323	598361.997
SU5&6-153-071	10/20/2005	Actinium-227	4.6	0.500	0.500	U	U	1464975.323	598361.997
SU5&6-153-072	10/20/2005	Uranium-238	2.2	0.920	0.010			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Uranium-235	3.2	0.037	0.022	J	J	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Uranium-233/234	2	0.790	0.030			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Thorium-232	2.1	1.010	0.010			1464990.323	598361.997

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-072	10/20/2005	Thorium-230	2.8	1.430	0.010		J	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Thorium-228	2.6	1.100	0.040			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Thallium-208	0.498	0.320	0.150			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Radium-228	2.1	1.140	0.870			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Radium-226	2.9	1.000	0.510	J	J	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Protactinium-231	4	3.300	3.300	U	U	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Potassium-40	47.8	26.800	0.700			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Lead-214	8.9	0.890	0.150			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Lead-212	16.6	0.970	0.220			1464990.323	598361.997
SU5&6-153-072	10/20/2005	Lead-210	7.4	3.000	3.000	U	UJ	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Cobalt-60	0.7	0.150	0.150	U	UJ	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Cesium-137	3.8	0.130	0.130	U	UJ	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Bismuth-210M	8.3	0.130	0.130	U	UJ	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Bismuth-207	1.2	0.088	0.088	U	UJ	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Americium-241	63	0.230	0.230	U	UJ	1464990.323	598361.997
SU5&6-153-072	10/20/2005	Actinium-227	4.6	0.610	0.610	U	UJ	1464990.323	598361.997
SU5&6-153-073	10/20/2005	Uranium-238	2.2	0.910	0.010			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Uranium-235	3.2	0.030	0.013	J	J	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Uranium-233/234	2	0.910	0.020			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Thorium-232	2.1	0.970	0.010			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Thorium-230	2.8	1.980	0.020		J	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Thorium-228	2.6	1.080	0.030			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Thallium-208	0.498	0.300	0.090			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Radium-228	2.1	1.000	0.310			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Radium-226	2.9	0.700	0.410	J	J	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Protactinium-231	4	2.700	2.700	U	U	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Potassium-40	47.8	25.700	0.800			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Lead-214	8.9	0.750	0.170			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Lead-212	16.6	0.860	0.160			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Lead-210	7.4	1.800	1.800	U	UJ	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Cobalt-60	0.7	0.140	0.140	U	UJ	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Cesium-137	3.8	0.100	0.100	U	UJ	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Bismuth-210M	8.3	0.100	0.100	U	UJ	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Bismuth-207	1.2	0.066	0.066	U	U	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Americium-241	63	0.170	0.170	U	UJ	1465005.323	598361.997
SU5&6-153-073	10/20/2005	Actinium-228	1.93	1.000	0.310			1465005.323	598361.997
SU5&6-153-073	10/20/2005	Actinium-227	4.6	0.450	0.450	U	UJ	1465005.323	598361.997
SU5&6-153-074	10/20/2005	Uranium-238	2.2	0.710	0.020			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Uranium-235	3.2	0.040	0.012	J	J	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Uranium-233/234	2	0.750	0.020			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Thorium-232	2.1	0.940	0.020			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Thorium-230	2.8	1.610	0.010		J	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Thorium-228	2.6	0.900	0.040			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Thallium-208	0.498	0.440	0.100			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Radium-228	2.1	0.720	0.720			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Radium-226	2.9	0.580	0.440	J	J	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Protactinium-231	4	3.100	3.100	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Potassium-40	47.8	21.800	1.500			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Lead-214	8.9	0.550	0.180			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Lead-212	16.6	0.670	0.190			1465020.323	598361.997
SU5&6-153-074	10/20/2005	Lead-210	7.4	2.800	2.800	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Cobalt-60	0.7	0.160	0.160	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Bismuth-210M	8.3	0.140	0.140	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Americium-241	63	0.230	0.230	U	UJ	1465020.323	598361.997
SU5&6-153-074	10/20/2005	Actinium-227	4.6	0.660	0.660	U	U	1465020.323	598361.997
SU5&6-153-075D	10/20/2005	Uranium-238	2.2	0.520	0.020			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Uranium-238	2.2	0.476	0.024			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Uranium-235	3.2	0.028	0.027	J	J	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Uranium-235	3.2	0.019	0.013	J	J	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Uranium-233/234	2	0.531	0.020			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Uranium-233/234	2	0.414	0.026			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Thorium-232	2.1	0.520	0.010			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Thorium-232	2.1	0.520	0.020			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Thorium-230	2.8	2.600	0.030		J	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Thorium-230	2.8	1.550	0.020		J	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Thorium-228	2.6	0.610	0.030			1464907.823	598374.988

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-075	10/20/2005	Thorium-228	2.6	0.560	0.040			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Thallium-208	0.498	0.189	0.063			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Thallium-208	0.498	0.092	0.083			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Radium-228	2.1	0.470	0.470	U	U	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Radium-228	2.1	0.390	0.390	U	U	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Radium-226	2.9	0.490	0.300	J	J	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Radium-226	2.9	0.410	0.320	J	J	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Protactinium-231	4	2.000	2.000	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Protactinium-231	4	1.700	1.700	U	UJ	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Potassium-40	47.8	11.900	0.900			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Potassium-40	47.8	10.400	0.700			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Lead-214	8.9	0.470	0.110			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Lead-214	8.9	0.450	0.130			1464907.823	598374.988
SU5&6-153-075	10/20/2005	Lead-212	16.6	0.360	0.120			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Lead-212	16.6	0.310	0.140			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Lead-210	7.4	2.000	2.000	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Lead-210	7.4	1.400	1.400	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Cobalt-60	0.7	0.100	0.100	U	UJ	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Cobalt-60	0.7	0.093	0.093	U	UJ	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Cesium-137	3.8	0.082	0.082	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Cesium-137	3.8	0.081	0.081	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Bismuth-212	9.87	0.530	0.390			1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Bismuth-210M	8.3	0.091	0.091	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Bismuth-210M	8.3	0.087	0.087	U	U	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Bismuth-207	1.2	0.073	0.073	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Bismuth-207	1.2	0.050	0.050	U	UJ	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Americium-241	63	0.150	0.150	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Americium-241	63	0.110	0.110	U	UJ	1464907.823	598374.988
SU5&6-153-075D	10/20/2005	Actinium-227	4.6	0.420	0.420	U	UJ	1464907.823	598374.988
SU5&6-153-075	10/20/2005	Actinium-227	4.6	0.330	0.330	U	UJ	1464907.823	598374.988
SU5&6-153-076	10/20/2005	Uranium-238	2.2	0.810	0.010			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Uranium-235	3.2	0.053	0.025	J	J	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Uranium-233/234	2	0.800	0.020			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Thorium-232	2.1	0.810	0.010			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Thorium-230	2.8	0.950	0.020		J	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Thorium-228	2.6	0.940	0.040			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Thallium-208	0.498	0.270	0.090			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Radium-228	2.1	0.700	0.370			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Radium-226	2.9	0.590	0.360	J	J	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Protactinium-231	4	2.400	2.400	U	UJ	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Potassium-40	47.8	26.300	0.900			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Lead-214	8.9	0.700	0.170			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Lead-212	16.6	0.750	0.170			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Lead-210	7.4	2.500	2.500	U	UJ	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Cobalt-60	0.7	0.150	0.150	U	UJ	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Cesium-137	3.8	0.096	0.096	U	UJ	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Bismuth-207	1.2	0.095	0.095	U	U	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Americium-241	63	0.220	0.220	U	UJ	1464922.823	598374.988
SU5&6-153-076	10/20/2005	Actinium-228	1.93	0.700	0.370			1464922.823	598374.988
SU5&6-153-076	10/20/2005	Actinium-227	4.6	1.220	0.710	J	J	1464922.823	598374.988
SU5&6-153-077	10/20/2005	Uranium-238	2.2	0.860	0.010			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Uranium-235	3.2	0.038	0.015	J	J	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Uranium-233/234	2	0.900	0.030			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Thorium-232	2.1	1.190	0.030			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Thorium-230	2.8	0.850	0.040		J	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Thorium-228	2.6	1.210	0.040			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Thallium-208	0.498	0.500	0.110			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Radium-228	2.1	1.080	0.400			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Radium-226	2.9	0.720	0.380	J	J	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Protactinium-231	4	2.300	2.300	U	UJ	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Potassium-40	47.8	31.800	0.900			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Lead-214	8.9	0.590	0.170			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Lead-212	16.6	0.970	0.150			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Lead-210	7.4	2.000	2.000	U	UJ	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Cobalt-60	0.7	0.120	0.120	U	UJ	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Bismuth-210M	8.3	0.087	0.087	U	UJ	1464937.823	598374.988

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-077	10/20/2005	Bismuth-207	1.2	0.090	0.090	U	UJ	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Americium-241	63	0.170	0.170	U	UJ	1464937.823	598374.988
SU5&6-153-077	10/20/2005	Actinium-228	1.93	1.080	0.400			1464937.823	598374.988
SU5&6-153-077	10/20/2005	Actinium-227	4.6	0.420	0.420	U	UJ	1464937.823	598374.988
SU5&6-153-078	10/20/2005	Uranium-238	2.2	0.980	0.020			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Uranium-235	3.2	0.052	0.022	J	J	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Uranium-233/234	2	0.840	0.020			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Thorium-232	2.1	1.130	0.020			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Thorium-230	2.8	1.430	0.040		J	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Thorium-228	2.6	1.050	0.050			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Thallium-208	0.498	0.290	0.150			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Radium-228	2.1	1.110	0.470			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Radium-226	2.9	0.900	0.300	J	J	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Protactinium-231	4	3.400	3.400	U	UJ	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Potassium-40	47.8	32.300	0.900			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Lead-212	16.6	0.950	0.230			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Lead-210	7.4	3.500	3.500	U	U	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Cobalt-60	0.7	0.120	0.120	U	UJ	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Cesium-137	3.8	0.140	0.140	U	UJ	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Bismuth-214	1.17	0.900	0.300			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Bismuth-210M	8.3	0.140	0.140	U	U	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Americium-241	63	0.260	0.260	U	UJ	1464952.823	598374.988
SU5&6-153-078	10/20/2005	Actinium-228	1.93	1.110	0.470			1464952.823	598374.988
SU5&6-153-078	10/20/2005	Actinium-227	4.6	0.740	0.740	U	UJ	1464952.823	598374.988
SU5&6-153-079	10/20/2005	Uranium-238	2.2	0.870	0.020			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Uranium-235	3.2	0.030	0.020	J	J	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Uranium-233/234	2	0.690	0.020			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Thorium-232	2.1	1.070	0.030			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Thorium-230	2.8	0.840	0.030		J	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Thorium-228	2.6	1.030	0.050			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Thallium-208	0.498	0.430	0.090			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Radium-228	2.1	0.710	0.420			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Radium-226	2.9	0.620	0.410	J	J	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Protactinium-231	4	2.900	2.900	U	UJ	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Potassium-40	47.8	29.100	1.000			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Lead-214	8.9	0.480	0.190			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Lead-212	16.6	0.960	0.180			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Lead-210	7.4	2.800	2.800	U	UJ	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Cobalt-60	0.7	0.120	0.120	U	UJ	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Cesium-137	3.8	0.140	0.140	U	U	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Bismuth-210M	8.3	0.130	0.130	U	UJ	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Bismuth-207	1.2	0.095	0.095	U	UJ	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Americium-241	63	0.250	0.250	U	UJ	1464967.823	598374.988
SU5&6-153-079	10/20/2005	Actinium-228	1.93	0.710	0.420			1464967.823	598374.988
SU5&6-153-079	10/20/2005	Actinium-227	4.6	1.630	0.840	J	J	1464967.823	598374.988
SU5&6-153-080	10/20/2005	Uranium-238	2.2	0.830	0.010			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Uranium-235	3.2	0.034	0.013	J	J	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Uranium-233/234	2	0.750	0.020			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Thorium-232	2.1	0.970	0.020			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Thorium-230	2.8	0.880	0.030		J	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Thorium-228	2.6	0.980	0.050			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Thallium-208	0.498	0.350	0.080			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Radium-228	2.1	0.810	0.370			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Radium-226	2.9	0.550	0.330	J	J	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Protactinium-231	4	2.500	2.500	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Potassium-40	47.8	24.800	0.800			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Lead-214	8.9	0.550	0.160			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Lead-212	16.6	0.720	0.110			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Lead-210	7.4	2.000	2.000	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Cobalt-60	0.7	0.140	0.140	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Cesium-137	3.8	0.110	0.110	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Bismuth-212	9.87	1.160	0.920			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Bismuth-210M	8.3	0.081	0.081	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Bismuth-207	1.2	0.075	0.075	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Americium-241	63	0.160	0.160	U	UJ	1464982.823	598374.988
SU5&6-153-080	10/20/2005	Actinium-228	1.93	0.810	0.370			1464982.823	598374.988
SU5&6-153-080	10/20/2005	Actinium-227	4.6	0.380	0.380	U	UJ	1464982.823	598374.988

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-081	10/20/2005	Uranium-238	2.2	0.800	0.010			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Uranium-235	3.2	0.052	0.013	J	J	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Uranium-233/234	2	0.910	0.020			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Thorium-232	2.1	0.960	0.030			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Thorium-230	2.8	0.760	0.010		J	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Thorium-228	2.6	1.060	0.040			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Thallium-208	0.498	0.440	0.100			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Radium-228	2.1	0.950	0.860			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Radium-226	2.9	0.740	0.520	J	J	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Protactinium-231	4	3.300	3.300	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Potassium-40	47.8	32.200	0.700			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Lead-214	8.9	0.680	0.200			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Lead-212	16.6	0.870	0.250			1464997.823	598374.988
SU5&6-153-081	10/20/2005	Lead-210	7.4	3.200	3.200	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Cobalt-60	0.7	0.160	0.160	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Cesium-137	3.8	0.110	0.110	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Bismuth-210M	8.3	0.150	0.150	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Americium-241	63	0.240	0.240	U	UJ	1464997.823	598374.988
SU5&6-153-081	10/20/2005	Actinium-227	4.6	0.580	0.580	U	UJ	1464997.823	598374.988
SU5&6-153-082	10/20/2005	Uranium-238	2.2	0.760	0.020			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Uranium-235	3.2	0.042	0.013	J	J	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Uranium-233/234	2	0.760	0.020			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Thorium-232	2.1	0.910	0.010			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Thorium-230	2.8	1.280	0.030		J	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Thorium-228	2.6	0.980	0.040			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Thallium-208	0.498	0.364	0.089			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Radium-228	2.1	0.980	0.310			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Radium-226	2.9	0.650	0.360	J	J	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Protactinium-231	4	2.500	2.500	U	U	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Potassium-40	47.8	20.200	0.900			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Lead-214	8.9	0.790	0.130			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Lead-212	16.6	0.790	0.150			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Lead-210	7.4	2.100	2.100	U	UJ	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Cobalt-60	0.7	0.110	0.110	U	UJ	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Bismuth-210M	8.3	0.094	0.094	U	UJ	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Bismuth-207	1.2	0.063	0.063	U	U	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Americium-241	63	0.160	0.160	U	UJ	1465012.823	598374.988
SU5&6-153-082	10/20/2005	Actinium-228	1.93	0.980	0.310			1465012.823	598374.988
SU5&6-153-082	10/20/2005	Actinium-227	4.6	0.430	0.430	U	UJ	1465012.823	598374.988
SU5&6-153-083	10/20/2005	Uranium-238	2.2	0.710	0.030			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Uranium-235	3.2	0.047	0.032	J	J	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Uranium-233/234	2	0.720	0.050			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Thorium-232	2.1	0.950	0.040			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Thorium-230	2.8	1.700	0.040			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Thorium-228	2.6	0.930	0.050			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Thallium-208	0.498	0.280	0.100			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Radium-228	2.1	0.900	0.410			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Radium-226	2.9	0.800	0.470		J	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Protactinium-231	4	3.100	3.100	U	U	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Potassium-40	47.8	27.100	0.700			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Lead-214	8.9	0.670	0.190			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Lead-212	16.6	0.910	0.180			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Lead-210	7.4	2.500	2.500	U	UJ	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Cobalt-60	0.7	0.110	0.110	U	UJ	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Cesium-137	3.8	0.140	0.140	U	UJ	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Bismuth-207	1.2	0.071	0.071	U	UJ	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Americium-241	63	0.190	0.190	U	UJ	1465027.823	598374.988
SU5&6-153-083	10/20/2005	Actinium-228	1.93	0.900	0.410			1465027.823	598374.988
SU5&6-153-083	10/20/2005	Actinium-227	4.6	0.510	0.510	U	UJ	1465027.823	598374.988
SU5&6-153-084	10/20/2005	Uranium-238	2.2	0.800	0.010			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Uranium-235	3.2	0.047	0.014	J	J	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Uranium-233/234	2	0.860	0.020			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Thorium-232	2.1	0.980	0.020			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Thorium-230	2.8	0.980	0.020		J	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Thorium-228	2.6	1.180	0.040			1464930.323	598387.978

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-084	10/20/2005	Thallium-208	0.498	0.314	0.073			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Radium-228	2.1	1.060	0.270			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Radium-226	2.9	0.640	0.330	J	J	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Protactinium-231	4	1.700	1.700	U	UJ	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Potassium-40	47.8	28.400	1.000			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Lead-214	8.9	0.670	0.110			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Lead-212	16.6	0.960	0.110			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Lead-210	7.4	2.100	2.100	U	UJ	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Cobalt-60	0.7	0.120	0.120	U	U	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Cesium-137	3.8	0.084	0.084	U	UJ	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Bismuth-212	9.87	1.520	1.100			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Bismuth-210M	8.3	0.090	0.090	U	UJ	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Bismuth-207	1.2	0.068	0.068	U	UJ	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Americium-241	63	0.170	0.170	U	UJ	1464930.323	598387.978
SU5&6-153-084	10/20/2005	Actinium-228	1.93	1.060	0.270			1464930.323	598387.978
SU5&6-153-084	10/20/2005	Actinium-227	4.6	0.410	0.410	U	UJ	1464930.323	598387.978
SU5&6-153-085	03/28/2006	Uranium-238	2.2	0.790	0.060		J	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Uranium-235	3.2	0.053	0.053	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Uranium-233/234	2	0.800	0.060			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Thorium-232	2.1	0.930	0.030			1464945.323	598387.978
SU5&6-153-085	**03/28/2006**	**Thorium-230**	**2.8**	**3.860**	**0.060**			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Thorium-228	2.6	1.000	0.070			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Thallium-208	0.498	0.332	0.084			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Radium-228	2.1	1.020	0.300			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Radium-226	2.9	0.790	0.310	J	J	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Potassium-40	47.8	31.400	0.700			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Lead-214	8.9	0.980	0.140			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Lead-212	16.6	1.070	0.130			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Lead-210	7.4	1.900	1.900	U	U	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Cobalt-60	0.7	0.085	0.085	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Cesium-137	3.8	0.092	0.092	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Bismuth-210M	8.3	0.092	0.092	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Bismuth-207	1.2	0.068	0.068	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Americium-241	63	0.160	0.160	U	UJ	1464945.323	598387.978
SU5&6-153-085	03/28/2006	Actinium-228	1.93	1.020	0.300			1464945.323	598387.978
SU5&6-153-085	03/28/2006	Actinium-227	4.6	0.450	0.450	U	U	1464945.323	598387.978
SU5&6-153-086	10/20/2005	Uranium-238	2.2	0.970	0.050			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Uranium-235	3.2	0.025	0.025	U	UJ	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Uranium-233/234	2	1.000	0.040			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Thorium-232	2.1	1.130	0.040			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Thorium-230	2.8	0.860	0.020		J	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Thorium-228	2.6	1.340	0.030			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Thallium-208	0.498	0.420	0.140		J	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Radium-228	2.1	1.460	0.590			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Radium-226	2.9	1.110	0.610	J	J	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Protactinium-231	4	3.900	3.900	U	U	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Potassium-40	47.8	32.500	1.900			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Lead-212	16.6	1.220	0.270			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Lead-210	7.4	3.600	3.600	U	UJ	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Cobalt-60	0.7	0.170	0.170	U	UJ	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Bismuth-210M	8.3	0.130	0.130	U	U	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Bismuth-207	1.2	0.130	0.130	U	U	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Americium-241	63	0.280	0.280	U	UJ	1464960.323	598387.978
SU5&6-153-086	10/20/2005	Actinium-228	1.93	1.460	0.590			1464960.323	598387.978
SU5&6-153-086	10/20/2005	Actinium-227	4.6	0.740	0.740	U	UJ	1464960.323	598387.978
SU5&6-153-087	10/20/2005	Uranium-238	2.2	0.880	0.010			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Uranium-235	3.2	0.032	0.032	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Uranium-233/234	2	0.760	0.030			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Thorium-232	2.1	1.240	0.020			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Thorium-230	2.8	0.940	0.030		J	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Thorium-228	2.6	1.200	0.040			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Thallium-208	0.498	0.400	0.110		J	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Radium-228	2.1	1.700	0.430			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Radium-226	2.9	0.900	0.490	J	J	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Protactinium-231	4	3.400	3.400	U	U	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Potassium-40	47.8	35.100	0.800			1464975.323	598387.978

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-087	10/20/2005	Lead-214	8.9	0.590	0.170			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Lead-212	16.6	0.880	0.200			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Lead-210	7.4	2.400	2.400	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Cobalt-60	0.7	0.180	0.180	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Cesium-137	3.8	0.130	0.130	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Bismuth-212	9.87	0.920	0.830			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Bismuth-207	1.2	0.075	0.075	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Americium-241	63	0.230	0.230	U	UJ	1464975.323	598387.978
SU5&6-153-087	10/20/2005	Actinium-228	1.93	1.700	0.430			1464975.323	598387.978
SU5&6-153-087	10/20/2005	Actinium-227	4.6	0.510	0.510	U	UJ	1464975.323	598387.978
SU5&6-153-088	10/20/2005	Uranium-238	2.2	0.830	0.040			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Uranium-235	3.2	0.062	0.062	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Uranium-233/234	2	0.700	0.050			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Thorium-232	2.1	0.940	0.040			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Thorium-230	2.8	1.090	0.030			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Thorium-228	2.6	1.320	0.050			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Thallium-208	0.498	0.380	0.100			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Radium-228	2.1	0.970	0.390			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Radium-226	2.9	0.760	0.390		J	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Protactinium-231	4	2.800	2.800	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Potassium-40	47.8	31.200	1.100			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Lead-214	8.9	0.710	0.170			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Lead-212	16.6	0.930	0.170			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Lead-210	7.4	2.400	2.400	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Cobalt-60	0.7	0.130	0.130	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Bismuth-207	1.2	0.093	0.093	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Americium-241	63	0.190	0.190	U	UJ	1464990.323	598387.978
SU5&6-153-088	10/20/2005	Actinium-228	1.93	0.970	0.390			1464990.323	598387.978
SU5&6-153-088	10/20/2005	Actinium-227	4.6	0.540	0.540	U	U	1464990.323	598387.978
SU5&6-153-089	10/20/2005	Uranium-238	2.2	0.940	0.010			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Uranium-235	3.2	0.050	0.026	J	J	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Uranium-233/234	2	0.860	0.020			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Thorium-232	2.1	1.070	0.020			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Thorium-230	2.8	0.910	0.010		J	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Thorium-228	2.6	1.110	0.040			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Radium-228	2.1	1.040	1.000			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Radium-226	2.9	0.670	0.570	J	J	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Protactinium-231	4	4.300	4.300	U	U	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Potassium-40	47.8	32.700	1.300			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Lead-214	8.9	0.670	0.240			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Lead-212	16.6	1.000	0.240			1464922.823	598400.968
SU5&6-153-089	10/20/2005	Lead-210	7.4	3.800	3.800	U	U	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Cobalt-60	0.7	0.170	0.170	U	UJ	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Cesium-137	3.8	0.160	0.160	U	UJ	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Bismuth-210M	8.3	0.150	0.150	U	UJ	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Bismuth-207	1.2	0.130	0.130	U	UJ	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Americium-241	63	0.300	0.300	U	UJ	1464922.823	598400.968
SU5&6-153-089	10/20/2005	Actinium-227	4.6	0.780	0.780	U	UJ	1464922.823	598400.968
SU5&6-153-090	10/20/2005	Uranium-238	2.2	0.810	0.020			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Uranium-235	3.2	0.044	0.015	J	J	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Uranium-233/234	2	0.940	0.030			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Thorium-232	2.1	1.100	0.020			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Thorium-230	2.8	0.880	0.030		J	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Thorium-228	2.6	0.980	0.030			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Thallium-208	0.498	0.310	0.110		J	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Radium-228	2.1	0.660	0.390			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Radium-226	2.9	0.640	0.390	J	J	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Protactinium-231	4	3.000	3.000	U	UJ	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Potassium-40	47.8	20.400	0.700			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Lead-214	8.9	0.470	0.190			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Lead-212	16.6	0.610	0.160			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Lead-210	7.4	2.700	2.700	U	UJ	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Cobalt-60	0.7	0.160	0.160	U	UJ	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Cesium-137	3.8	0.130	0.130	U	UJ	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464937.823	598400.968

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-090	10/20/2005	Bismuth-207	1.2	0.099	0.099	U	UJ	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Americium-241	63	0.220	0.220	U	UJ	1464937.823	598400.968
SU5&6-153-090	10/20/2005	Actinium-228	1.93	0.660	0.390			1464937.823	598400.968
SU5&6-153-090	10/20/2005	Actinium-227	4.6	1.110	0.790	J	J	1464937.823	598400.968
SU5&6-153-091	10/20/2005	Uranium-238	2.2	0.990	0.040			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Uranium-235	3.2	0.028	0.026	J	J	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Uranium-233/234	2	1.060	0.050			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Thorium-232	2.1	1.330	0.030			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Thorium-230	2.8	0.950	0.050		J	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Thorium-228	2.6	1.230	0.070			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Thallium-208	0.498	0.510	0.170		J	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Radium-228	2.1	1.870	0.600			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Radium-226	2.9	0.880	0.540	J	J	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Protactinium-231	4	4.000	4.000	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Potassium-40	47.8	46.400	1.300			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Lead-214	8.9	0.910	0.220			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Lead-212	16.6	1.300	0.230			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Lead-210	7.4	3.400	3.400	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Cobalt-60	0.7	0.230	0.230	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Cesium-137	3.8	0.200	0.200	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Bismuth-210M	8.3	0.130	0.130	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Bismuth-207	1.2	0.100	0.100	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Americium-241	63	0.270	0.270	U	UJ	1464952.823	598400.968
SU5&6-153-091	10/20/2005	Actinium-228	1.93	1.870	0.600			1464952.823	598400.968
SU5&6-153-091	10/20/2005	Actinium-227	4.6	0.590	0.590	U	UJ	1464952.823	598400.968
SU5&6-153-092	10/20/2005	Uranium-238	2.2	0.850	0.050			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Uranium-235	3.2	0.056	0.056	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Uranium-233/234	2	0.750	0.050			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Thorium-232	2.1	0.960	0.060			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Thorium-230	2.8	0.950	0.030			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Thorium-228	2.6	1.210	0.030			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Thallium-208	0.498	0.390	0.110			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Radium-228	2.1	1.290	0.530			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Radium-226	2.9	0.660	0.440		J	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Protactinium-231	4	3.500	3.500	U	U	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Potassium-40	47.8	33.500	1.400			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Lead-212	16.6	0.950	0.210			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Lead-210	7.4	2.800	2.800	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Cobalt-60	0.7	0.130	0.130	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Cesium-137	3.8	0.130	0.130	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Americium-241	63	0.220	0.220	U	UJ	1464967.823	598400.968
SU5&6-153-092	10/20/2005	Actinium-228	1.93	1.290	0.530			1464967.823	598400.968
SU5&6-153-092	10/20/2005	Actinium-227	4.6	0.650	0.650	U	UJ	1464967.823	598400.968
SU5&6-153-093	10/19/2005	Uranium-238	2.2	0.970	0.030			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Uranium-235	3.2	0.042	0.014	J	J	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Uranium-233/234	2	0.890	0.020			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Thorium-232	2.1	1.110	0.040			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Thorium-230	2.8	0.910	0.030		J	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Thorium-228	2.6	1.110	0.040			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Thallium-208	0.498	0.250	0.110		J	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Radium-228	2.1	1.090	0.510			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Radium-226	2.9	0.900	0.560	J	J	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Protactinium-231	4	3.700	3.700	U	UJ	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Potassium-40	47.8	31.200	0.800			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Lead-214	8.9	0.690	0.240			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Lead-212	16.6	1.000	0.220			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Lead-210	7.4	3.200	3.200	U	UJ	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Cobalt-60	0.7	0.170	0.170	U	UJ	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Cesium-137	3.8	0.140	0.140	U	UJ	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Bismuth-210M	8.3	0.130	0.130	U	UJ	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Bismuth-207	1.2	0.120	0.120	U	UJ	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Americium-241	63	0.280	0.280	U	U	1464900.323	598413.959
SU5&6-153-093	10/19/2005	Actinium-228	1.93	1.090	0.510			1464900.323	598413.959
SU5&6-153-093	10/19/2005	Actinium-227	4.6	0.680	0.680	U	UJ	1464900.323	598413.959
SU5&6-153-094	10/19/2005	Uranium-238	2.2	1.040	0.010			1464915.323	598413.959
SU5&6-153-094	10/19/2005	Uranium-235	3.2	0.052	0.016	J	J	1464915.323	598413.959

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-094	10/19/2005	Uranium-233/234	2	0.890	0.020			1464915.323	598413.959
SU5&6-153-094	10/19/2005	Thorium-232	2.1	1.060	0.010			1464915.323	598413.959
SU5&6-153-094	10/19/2005	Thorium-230	2.8	1.740	0.020		J	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Thorium-228	2.6	0.950	0.020			1464915.323	598413.959
SU5&6-153-094	10/19/2005	Thallium-208	0.498	0.240	0.100		J	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Radium-228	2.1	0.740	0.740	U	U	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Radium-226	2.9	0.390	0.370	J	J	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Protactinium-231	4	2.800	2.800	U	U	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Potassium-40	47.8	17.400	1.200			1464915.323	598413.959
SU5&6-153-094	10/19/2005	Lead-212	16.6	0.560	0.190			1464915.323	598413.959
SU5&6-153-094	10/19/2005	Lead-210	7.4	3.100	3.100	U	UJ	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Cobalt-60	0.7	0.140	0.140	U	UJ	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Cesium-137	3.8	0.140	0.140	U	UJ	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Bismuth-210M	8.3	0.130	0.130	U	U	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Americium-241	63	0.230	0.230	U	UJ	1464915.323	598413.959
SU5&6-153-094	10/19/2005	Actinium-227	4.6	1.610	0.880	J	J	1464915.323	598413.959
SU5&6-153-095	10/20/2005	Uranium-238	2.2	1.010	0.030			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Uranium-235	3.2	0.095	0.032	J	J	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Uranium-233/234	2	0.940	0.040			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Thorium-232	2.1	1.000	0.020			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Thorium-230	2.8	0.950	0.020		J	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Thorium-228	2.6	1.210	0.030			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Thallium-208	0.498	0.450	0.140		J	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Radium-228	2.1	1.360	0.470			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Radium-226	2.9	0.620	0.510	J	J	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Protactinium-231	4	3.800	3.800	U	U	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Potassium-40	47.8	30.600	1.000			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Lead-214	8.9	0.830	0.210			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Lead-212	16.6	1.240	0.230			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Lead-210	7.4	3.500	3.500	U	U	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Cobalt-60	0.7	0.190	0.190	U	UJ	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Cesium-137	3.8	0.170	0.170	U	UJ	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Bismuth-210M	8.3	0.160	0.160	U	UJ	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Americium-241	63	0.240	0.240	U	UJ	1464930.323	598413.959
SU5&6-153-095	10/20/2005	Actinium-228	1.93	1.360	0.470			1464930.323	598413.959
SU5&6-153-095	10/20/2005	Actinium-227	4.6	0.560	0.560	U	UJ	1464930.323	598413.959
SU5&6-153-096	10/20/2005	Uranium-238	2.2	0.750	0.020			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Uranium-235	3.2	0.045	0.027	J	J	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Uranium-233/234	2	0.780	0.020			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Thorium-232	2.1	1.140	0.030			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Thorium-230	2.8	1.080	0.030		J	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Thorium-228	2.6	1.400	0.040			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Thallium-208	0.498	0.330	0.140		J	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Radium-228	2.1	0.950	0.570			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Radium-226	2.9	0.600	0.510	J	J	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Protactinium-231	4	3.700	3.700	U	UJ	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Potassium-40	47.8	31.300	0.300			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Lead-214	8.9	0.370	0.260			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Lead-212	16.6	0.950	0.220			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Lead-210	7.4	3.400	3.400	U	UJ	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Cobalt-60	0.7	0.130	0.130	U	UJ	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Bismuth-210M	8.3	0.130	0.130	U	U	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Americium-241	63	0.270	0.270	U	UJ	1464945.323	598413.959
SU5&6-153-096	10/20/2005	Actinium-228	1.93	0.950	0.570			1464945.323	598413.959
SU5&6-153-096	10/20/2005	Actinium-227	4.6	0.650	0.650	U	UJ	1464945.323	598413.959
SU5&6-153-097	10/20/2005	Uranium-238	2.2	0.950	0.040			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Uranium-235	3.2	0.051	0.034	J	J	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Uranium-233/234	2	0.720	0.060			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Thorium-232	2.1	1.240	0.030			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Thorium-230	2.8	1.230	0.050			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Thorium-228	2.6	1.380	0.080			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Thallium-208	0.498	0.440	0.110			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Radium-228	2.1	0.890	0.430			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Radium-226	2.9	0.900	0.530		J	1464960.323	598413.959

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-097	10/20/2005	Protactinium-231	4	3.400	3.400	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Potassium-40	47.8	37.100	1.100			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Lead-212	16.6	1.170	0.210			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Lead-210	7.4	3.400	3.400	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Cobalt-60	0.7	0.180	0.180	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Bismuth-207	1.2	0.092	0.092	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Americium-241	63	0.250	0.250	U	UJ	1464960.323	598413.959
SU5&6-153-097	10/20/2005	Actinium-228	1.93	0.890	0.430			1464960.323	598413.959
SU5&6-153-097	10/20/2005	Actinium-227	4.6	0.580	0.580	U	UJ	1464960.323	598413.959
SU5&6-153-098	10/19/2005	Uranium-238	2.2	0.980	0.020			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Uranium-235	3.2	0.050	0.026	J	J	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Uranium-233/234	2	0.750	0.020			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Thorium-232	2.1	1.370	0.030			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Thorium-230	2.8	1.110	0.030		J	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Thorium-228	2.6	1.180	0.030			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Thallium-208	0.498	0.460	0.110		J	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Radium-228	2.1	1.020	0.450			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Radium-226	2.9	0.540	0.430	J	J	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Protactinium-231	4	3.800	3.800	U	U	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Potassium-40	47.8	33.300	1.000			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Lead-214	8.9	0.800	0.220			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Lead-212	16.6	1.150	0.200			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Lead-210	7.4	3.500	3.500	U	UJ	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Cobalt-60	0.7	0.160	0.160	U	UJ	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Cesium-137	3.8	0.140	0.140	U	UJ	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Bismuth-210M	8.3	0.150	0.150	U	UJ	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Americium-241	63	0.270	0.270	U	UJ	1464892.823	598426.949
SU5&6-153-098	10/19/2005	Actinium-228	1.93	1.020	0.450			1464892.823	598426.949
SU5&6-153-098	10/19/2005	Actinium-227	4.6	2.020	0.990	J	J	1464892.823	598426.949
SU5&6-153-099	03/28/2006	Uranium-238	2.2	1.090	0.050		J	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Uranium-235	3.2	0.057	0.057	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Uranium-233/234	2	0.740	0.050			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Thorium-232	2.1	0.980	0.060			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Thorium-230	2.8	0.930	0.030			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Thorium-228	2.6	1.090	0.070			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Thallium-208	0.498	0.380	0.090			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Radium-228	2.1	1.130	0.300			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Radium-226	2.9	0.750	0.190	J	J	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Protactinium-231	4	1.800	1.800	U	U	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Potassium-40	47.8	36.900	1.000			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Lead-214	8.9	0.880	0.160			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Lead-212	16.6	0.950	0.160			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Cobalt-60	0.7	0.140	0.140	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Cesium-137	3.8	0.110	0.110	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Bismuth-214	1.17	0.750	0.190			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Bismuth-210M	8.3	0.095	0.095	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Bismuth-207	1.2	0.090	0.090	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Americium-241	63	0.170	0.170	U	UJ	1464907.823	598426.949
SU5&6-153-099	03/28/2006	Actinium-228	1.93	1.130	0.300			1464907.823	598426.949
SU5&6-153-099	03/28/2006	Actinium-227	4.6	0.450	0.450	U	U	1464907.823	598426.949
SU5&6-153-100	10/19/2005	Uranium-238	2.2	0.820	0.020			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Uranium-235	3.2	0.057	0.014	J	J	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Uranium-233/234	2	0.670	0.020			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Thorium-232	2.1	1.240	0.020			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Thorium-230	2.8	1.430	0.040		J	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Thorium-228	2.6	1.180	0.040			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Thallium-208	0.498	0.570	0.100		J	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Radium-228	2.1	1.000	1.000	U	U	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Radium-226	2.9	0.780	0.610	J	J	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Protactinium-231	4	4.500	4.500	U	UJ	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Potassium-40	47.8	29.200	1.700			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Lead-214	8.9	0.800	0.190			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Lead-212	16.6	0.810	0.260			1464922.823	598426.949
SU5&6-153-100	10/19/2005	Lead-210	7.4	4.000	4.000	U	UJ	1464922.823	598426.949

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-100	10/19/2005	Cobalt-60	0.7	0.098	0.098	U	UJ	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Cesium-137	3.8	0.180	0.180	U	UJ	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Bismuth-210M	8.3	0.170	0.170	U	UJ	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Bismuth-207	1.2	0.130	0.130	U	UJ	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Americium-241	63	0.270	0.270	U	UJ	1464922.823	598426.949
SU5&6-153-100	10/19/2005	Actinium-227	4.6	0.700	0.700	U	UJ	1464922.823	598426.949
SU5&6-153-101	10/19/2005	Uranium-238	2.2	1.050	0.010			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Uranium-238	2.2	0.980	0.010			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Uranium-235	3.2	0.060	0.016	J	J	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Uranium-235	3.2	0.031	0.017	J	J	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Uranium-233/234	2	1.130	0.030			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Uranium-233/234	2	0.900	0.030			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Thorium-232	2.1	1.040	0.050			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Thorium-232	2.1	0.860	0.030			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Thorium-230	2.8	0.900	0.030		J	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Thorium-230	2.8	0.820	0.030		J	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Thorium-228	2.6	1.250	0.050			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Thorium-228	2.6	1.160	0.040			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Thallium-208	0.498	0.460	0.140		J	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Thallium-208	0.498	0.320	0.130		J	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Radium-228	2.1	0.910	0.450			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Radium-228	2.1	0.710	0.480			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Radium-226	2.9	0.780	0.590	J	J	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Radium-226	2.9	0.690	0.460	J	J	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Protactinium-231	4	3.900	3.900	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Protactinium-231	4	3.000	3.000	U	UJ	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Potassium-40	47.8	31.400	1.400			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Potassium-40	47.8	29.900	1.100			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Lead-214	8.9	0.830	0.190			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Lead-212	16.6	1.040	0.170			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Lead-212	16.6	1.010	0.250			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Lead-210	7.4	3.600	3.600	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Lead-210	7.4	3.200	3.200	U	UJ	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Cobalt-60	0.7	0.180	0.180	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Cobalt-60	0.7	0.130	0.130	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Cesium-137	3.8	0.160	0.160	U	U	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Cesium-137	3.8	0.150	0.150	U	UJ	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Bismuth-210M	8.3	0.170	0.170	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Bismuth-210M	8.3	0.130	0.130	U	UJ	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Bismuth-207	1.2	0.140	0.140	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Bismuth-207	1.2	0.098	0.098	U	UJ	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Americium-241	63	0.290	0.290	U	UJ	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Americium-241	63	0.240	0.240	U	U	1464937.823	598426.949
SU5&6-153-101	10/19/2005	Actinium-228	1.93	0.910	0.450			1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Actinium-228	1.93	0.710	0.480			1464937.823	598426.949
SU5&6-153-101	10/19/2005	Actinium-227	4.6	1.790	0.930	J	J	1464937.823	598426.949
SU5&6-153-101D	10/19/2005	Actinium-227	4.6	0.750	0.750	U	UJ	1464937.823	598426.949
SU5&6-153-102	10/20/2005	Uranium-238	2.2	0.920	0.050			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Uranium-235	3.2	0.067	0.059	J	J	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Uranium-233/234	2	0.990	0.050			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Thorium-232	2.1	1.260	0.030			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Thorium-230	2.8	1.150	0.050			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Thorium-228	2.6	1.250	0.070			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Thallium-208	0.498	0.310	0.120			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Radium-228	2.1	0.990	0.380			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Radium-226	2.9	0.910	0.420		J	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Protactinium-231	4	2.700	2.700	U	U	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Potassium-40	47.8	36.800	0.900			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Lead-214	8.9	0.780	0.180			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Lead-212	16.6	1.120	0.170			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Lead-210	7.4	2.600	2.600	U	UJ	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Cobalt-60	0.7	0.150	0.150	U	UJ	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Cesium-137	3.8	0.095	0.095	U	UJ	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Bismuth-207	1.2	0.092	0.092	U	UJ	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Americium-241	63	0.190	0.190	U	UJ	1464952.823	598426.949
SU5&6-153-102	10/20/2005	Actinium-228	1.93	0.990	0.380			1464952.823	598426.949
SU5&6-153-102	10/20/2005	Actinium-227	4.6	0.540	0.540	U	U	1464952.823	598426.949

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-103	03/28/2006	Uranium-238	2.2	0.950	0.020		J	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Uranium-235	3.2	0.068	0.031	J	J	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Uranium-233/234	2	0.890	0.050			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Thorium-234	176	2.200	1.100			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Thorium-232	2.1	1.050	0.030			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Thorium-230	2.8	0.920	0.030			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Thorium-228	2.6	1.140	0.060			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Thallium-208	0.498	0.540	0.070			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Radium-228	2.1	1.130	0.290			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Radium-226	2.9	0.760	0.150	J	J	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Protactinium-231	4	1.700	1.700	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Potassium-40	47.8	36.200	0.800			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Lead-214	8.9	0.850	0.150			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Lead-212	16.6	1.200	0.150			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Lead-210	7.4	2.300	2.300	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Cobalt-60	0.7	0.100	0.100	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Cesium-137	3.8	0.087	0.087	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Bismuth-214	1.17	0.760	0.150			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Bismuth-210M	8.3	0.100	0.100	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Bismuth-207	1.2	0.070	0.070	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Americium-241	63	0.160	0.160	U	UJ	1464885.323	598439.939
SU5&6-153-103	03/28/2006	Actinium-228	1.93	1.130	0.290			1464885.323	598439.939
SU5&6-153-103	03/28/2006	Actinium-227	4.6	0.420	0.420	U	UJ	1464885.323	598439.939
SU5&6-153-104	03/28/2006	Uranium-238	2.2	1.120	0.040		J	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Uranium-238	2.2	0.720	0.070		J	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Uranium-235	3.2	0.071	0.071	U	UJ	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Uranium-235	3.2	0.033	0.033	U	UJ	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Uranium-233/234	2	1.210	0.040			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Uranium-233/234	2	0.890	0.080			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Thorium-232	2.1	1.090	0.070			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Thorium-232	2.1	0.890	0.050			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Thorium-230	2.8	0.910	0.040			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Thorium-230	2.8	0.850	0.100			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Thorium-228	2.6	0.900	0.070			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Thorium-228	2.6	0.670	0.150			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Thallium-208	0.498	0.490	0.070			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Thallium-208	0.498	0.460	0.090			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Radium-228	2.1	1.410	0.250			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Radium-228	2.1	1.390	0.290			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Radium-226	2.9	0.880	0.350	J	J	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Radium-226	2.9	0.860	0.130	J	J	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Protactinium-231	4	1.800	1.800	U	U	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Protactinium-231	4	1.800	1.800	U	U	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Potassium-40	47.8	43.200	0.600			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Potassium-40	47.8	36.800	0.700			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Lead-214	8.9	0.940	0.120			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Lead-214	8.9	0.680	0.160			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Lead-212	16.6	1.570	0.100			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Lead-212	16.6	1.310	0.110			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Lead-210	7.4	1.900	1.900	U	UJ	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Cobalt-60	0.7	0.095	0.095	U	UJ	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Cobalt-60	0.7	0.095	0.095	U	UJ	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Cesium-137	3.8	0.087	0.087	U	UJ	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Cesium-137	3.8	0.080	0.080	U	UJ	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Bismuth-214	1.17	0.860	0.130			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Bismuth-212	9.87	2.580	1.000			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Bismuth-212	9.87	2.140	1.200			1464900.323	598439.939
SU5&6-153-104	03/28/2006	Bismuth-210M	8.3	0.085	0.085	U	U	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Bismuth-210M	8.3	0.085	0.085	U	UJ	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Bismuth-207	1.2	0.077	0.077	U	UJ	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Bismuth-207	1.2	0.061	0.061	U	UJ	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Americium-241	63	0.160	0.160	U	UJ	1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Americium-241	63	0.160	0.160	U	U	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Actinium-228	1.93	1.410	0.250			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Actinium-228	1.93	1.390	0.290			1464900.323	598439.939
SU5&6-153-104D	03/28/2006	Actinium-227	4.6	2.040	0.550	J	J	1464900.323	598439.939
SU5&6-153-104	03/28/2006	Actinium-227	4.6	0.410	0.410	U	UJ	1464900.323	598439.939

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-105	10/19/2005	Uranium-238	2.2	0.830	0.030			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Uranium-235	3.2	0.033	0.033	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Uranium-233/234	2	0.930	0.030			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Thorium-232	2.1	1.060	0.040			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Thorium-230	2.8	0.850	0.030		J	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Thorium-228	2.6	1.080	0.050			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Thallium-208	0.498	0.380	0.150		J	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Radium-228	2.1	1.140	0.670			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Radium-226	2.9	0.870	0.590	J	J	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Protactinium-231	4	3.900	3.900	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Potassium-40	47.8	38.100	1.700			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Lead-212	16.6	1.180	0.230			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Lead-210	7.4	2.600	2.500			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Cobalt-60	0.7	0.180	0.180	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Cesium-137	3.8	0.160	0.160	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Bismuth-210M	8.3	0.150	0.150	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Bismuth-207	1.2	0.120	0.120	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Americium-241	63	0.280	0.280	U	UJ	1464915.323	598439.939
SU5&6-153-105	10/19/2005	Actinium-228	1.93	1.140	0.670			1464915.323	598439.939
SU5&6-153-105	10/19/2005	Actinium-227	4.6	0.630	0.630	U	U	1464915.323	598439.939
SU5&6-153-106	10/19/2005	Uranium-238	2.2	0.960	0.040			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Uranium-235	3.2	0.076	0.056	J	J	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Uranium-233/234	2	0.750	0.030			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Thorium-232	2.1	1.390	0.050			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Thorium-230	2.8	1.140	0.050			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Thorium-228	2.6	1.280	0.030			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Thallium-208	0.498	0.430	0.130			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Radium-228	2.1	1.140	0.440			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Radium-226	2.9	0.740	0.480		J	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Protactinium-231	4	3.300	3.300	U	UJ	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Potassium-40	47.8	34.400	1.200			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Lead-214	8.9	0.970	0.190			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Lead-212	16.6	0.830	0.240			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Lead-210	7.4	2.800	2.800	U	UJ	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Cobalt-60	0.7	0.170	0.170	U	UJ	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Cesium-137	3.8	0.095	0.095	U	U	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Bismuth-212	9.87	1.260	1.100			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Bismuth-207	1.2	0.120	0.120	U	U	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Americium-241	63	0.230	0.230	U	U	1464930.323	598439.939
SU5&6-153-106	10/19/2005	Actinium-228	1.93	1.140	0.440			1464930.323	598439.939
SU5&6-153-106	10/19/2005	Actinium-227	4.6	0.620	0.620	U	UJ	1464930.323	598439.939
SU5&6-153-107	10/20/2005	Uranium-238	2.2	0.940	0.010			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Uranium-235	3.2	0.042	0.025	J	J	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Uranium-233/234	2	0.920	0.030			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Thorium-232	2.1	1.110	0.030			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Thorium-230	2.8	1.060	0.020		J	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Thorium-228	2.6	1.050	0.050			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Thallium-208	0.498	0.340	0.090		J	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Radium-228	2.1	0.900	0.390			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Radium-226	2.9	0.770	0.210	J	J	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Protactinium-231	4	3.000	3.000	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Potassium-40	47.8	26.900	0.800			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Lead-214	8.9	0.790	0.160			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Lead-212	16.6	0.890	0.170			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Lead-210	7.4	2.800	2.800	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Cobalt-60	0.7	0.160	0.160	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Cesium-137	3.8	0.110	0.110	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Bismuth-214	1.17	0.770	0.210			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Bismuth-210M	8.3	0.140	0.140	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Bismuth-207	1.2	0.085	0.085	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Americium-241	63	0.240	0.240	U	UJ	1464877.823	598452.930
SU5&6-153-107	10/20/2005	Actinium-228	1.93	0.900	0.390			1464877.823	598452.930
SU5&6-153-107	10/20/2005	Actinium-227	4.6	1.470	0.830	J	J	1464877.823	598452.930
SU5&6-153-108	10/20/2005	Uranium-238	2.2	0.910	0.010			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Uranium-235	3.2	0.057	0.016	J	J	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Uranium-233/234	2	0.880	0.030			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Thorium-232	2.1	1.010	0.030			1464892.823	598452.930

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-108	10/20/2005	Thorium-230	2.8	1.050	0.030		J	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Thorium-228	2.6	1.080	0.050			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Thallium-208	0.498	0.230	0.100		J	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Radium-228	2.1	1.090	0.340			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Radium-226	2.9	0.860	0.460	J	J	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Protactinium-231	4	2.800	2.800	U	UJ	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Potassium-40	47.8	30.700	0.700			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Lead-214	8.9	0.730	0.180			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Lead-212	16.6	0.880	0.190			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Lead-210	7.4	2.500	2.500	U	U	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Cobalt-60	0.7	0.130	0.130	U	UJ	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Cesium-137	3.8	0.180	0.180	U	U	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Bismuth-207	1.2	0.095	0.095	U	UJ	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Americium-241	63	0.180	0.180	U	UJ	1464892.823	598452.930
SU5&6-153-108	10/20/2005	Actinium-228	1.93	1.090	0.340			1464892.823	598452.930
SU5&6-153-108	10/20/2005	Actinium-227	4.6	0.480	0.480	U	UJ	1464892.823	598452.930
SU5&6-153-109	10/19/2005	Uranium-238	2.2	0.780	0.020			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Uranium-235	3.2	0.052	0.022	J	J	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Uranium-233/234	2	0.890	0.020			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Thorium-232	2.1	1.190	0.030			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Thorium-230	2.8	0.950	0.030			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Thorium-228	2.6	1.150	0.050			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Thallium-208	0.498	0.382	0.082			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Radium-228	2.1	1.180	0.340			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Radium-226	2.9	0.690	0.330	J	J	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Protactinium-231	4	1.700	1.700	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Potassium-40	47.8	36.200	0.800			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Lead-214	8.9	0.700	0.150			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Lead-212	16.6	1.030	0.140			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Lead-210	7.4	1.900	1.900	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Cobalt-60	0.7	0.091	0.091	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Cesium-137	3.8	0.087	0.087	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Bismuth-214	1.17	0.690	0.330			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Bismuth-210M	8.3	0.092	0.092	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Bismuth-207	1.2	0.067	0.067	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Americium-241	63	0.160	0.160	U	UJ	1464907.823	598452.930
SU5&6-153-109	10/19/2005	Actinium-228	1.93	1.180	0.340			1464907.823	598452.930
SU5&6-153-109	10/19/2005	Actinium-227	4.6	0.380	0.380	U	UJ	1464907.823	598452.930
SU15-153-110	02/06/2006	Thorium-232	2.1	0.730	0.030			1464870.323	598465.920
SU15-153-110	02/06/2006	Thorium-230	2.8	0.850	0.050			1464870.323	598465.920
SU15-153-110	02/06/2006	Thorium-228	2.6	0.790	0.090			1464870.323	598465.920
SU15-153-110	02/06/2006	Thallium-208	0.498	0.336	0.081			1464870.323	598465.920
SU15-153-110	02/06/2006	Radium-228	2.1	0.820	0.270			1464870.323	598465.920
SU15-153-110	02/06/2006	Radium-226	2.9	0.530	0.140	J	J	1464870.323	598465.920
SU15-153-110	02/06/2006	Protactinium-231	4	1.700	1.700	U	UJ	1464870.323	598465.920
SU15-153-110	02/06/2006	Potassium-40	47.8	29.600	0.500			1464870.323	598465.920
SU15-153-110	02/06/2006	Lead-214	8.9	0.970	0.130			1464870.323	598465.920
SU15-153-110	02/06/2006	Lead-212	16.6	1.020	0.090			1464870.323	598465.920
SU15-153-110	02/06/2006	Lead-210	7.4	1.900	1.900	U	UJ	1464870.323	598465.920
SU15-153-110	02/06/2006	Cobalt-60	0.7	0.086	0.086	U	UJ	1464870.323	598465.920
SU15-153-110	02/06/2006	Cesium-137	3.8	0.110	0.110	U	U	1464870.323	598465.920
SU15-153-110	02/06/2006	Bismuth-214	1.17	0.530	0.140			1464870.323	598465.920
SU15-153-110	02/06/2006	Bismuth-212	9.87	1.420	1.100			1464870.323	598465.920
SU15-153-110	02/06/2006	Bismuth-210M	8.3	0.088	0.088	U	UJ	1464870.323	598465.920
SU15-153-110	02/06/2006	Bismuth-207	1.2	0.064	0.064	U	UJ	1464870.323	598465.920
SU15-153-110	02/06/2006	Americium-241	63	0.160	0.160	U	U	1464870.323	598465.920
SU15-153-110	02/06/2006	Actinium-228	1.93	0.820	0.270			1464870.323	598465.920
SU15-153-110	02/06/2006	Actinium-227	4.6	1.520	0.540	J	J	1464870.323	598465.920
SU5&6-153-111	10/20/2005	Uranium-238	2.2	0.690	0.020			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Uranium-235	3.2	0.043	0.034	J	J	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Uranium-233/234	2	0.680	0.040			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Thorium-232	2.1	0.850	0.040			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Thorium-230	2.8	1.170	0.030			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Thorium-228	2.6	0.970	0.040			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Thallium-208	0.498	0.272	0.079			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Radium-228	2.1	1.020	0.240			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Radium-226	2.9	0.640	0.350	J	J	1464885.323	598465.920

Table 1: Offsite Verification Results

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(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-111	10/20/2005	Protactinium-231	4	1.800	1.800	U	UJ	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Potassium-40	47.8	23.400	0.900			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Lead-214	8.9	0.500	0.160			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Lead-212	16.6	0.660	0.180			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Lead-210	7.4	2.100	2.100	U	UJ	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Cobalt-60	0.7	0.100	0.100	U	UJ	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Cesium-137	3.8	0.120	0.120	U	U	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Bismuth-210M	8.3	0.095	0.095	U	UJ	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Bismuth-207	1.2	0.066	0.066	U	UJ	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Americium-241	63	0.180	0.180	U	UJ	1464885.323	598465.920
SU5&6-153-111	10/20/2005	Actinium-228	1.93	1.020	0.240			1464885.323	598465.920
SU5&6-153-111	10/20/2005	Actinium-227	4.6	0.420	0.420	U	UJ	1464885.323	598465.920
SU5&6-153-112	10/20/2005	Uranium-238	2.2	0.730	0.020			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Uranium-235	3.2	0.046	0.012	J	J	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Uranium-233/234	2	0.810	0.020			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Thorium-232	2.1	1.030	0.030			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Thorium-230	2.8	1.070	0.010			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Thorium-228	2.6	1.040	0.040			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Thallium-208	0.498	0.202	0.070			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Radium-228	2.1	0.750	0.340			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Radium-226	2.9	0.550	0.150	J	J	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Protactinium-231	4	1.800	1.800	U	UJ	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Potassium-40	47.8	21.500	0.800			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Lead-214	8.9	0.570	0.120			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Lead-212	16.6	0.630	0.120			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Lead-210	7.4	1.800	1.800	U	U	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Cobalt-60	0.7	0.083	0.083	U	UJ	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Cesium-137	3.8	0.088	0.088	U	UJ	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Bismuth-214	1.17	0.550	0.150			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Bismuth-210M	8.3	0.086	0.086	U	UJ	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Bismuth-207	1.2	0.060	0.060	U	UJ	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Americium-241	63	0.160	0.160	U	U	1464900.323	598465.920
SU5&6-153-112	10/20/2005	Actinium-228	1.93	0.750	0.340			1464900.323	598465.920
SU5&6-153-112	10/20/2005	Actinium-227	4.6	1.020	0.540	J	J	1464900.323	598465.920
SU5&6-153-113	10/20/2005	Uranium-238	2.2	0.780	0.020			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Uranium-235	3.2	0.058	0.014	J	J	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Uranium-233/234	2	0.710	0.010			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Thorium-232	2.1	0.830	0.020			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Thorium-230	2.8	0.840	0.030			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Thorium-228	2.6	0.880	0.040			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Thallium-208	0.498	0.298	0.090			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Radium-228	2.1	0.320	0.300			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Radium-226	2.9	0.500	0.330	J	J	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Protactinium-231	4	1.700	1.700	U	UJ	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Potassium-40	47.8	18.100	1.100			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Lead-214	8.9	0.570	0.140			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Lead-212	16.6	0.680	0.170			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Lead-210	7.4	2.000	2.000	U	U	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Cobalt-60	0.7	0.092	0.092	U	UJ	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Bismuth-210M	8.3	0.077	0.077	U	UJ	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Bismuth-207	1.2	0.057	0.057	U	U	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Americium-241	63	0.160	0.160	U	UJ	1464892.823	598478.911
SU5&6-153-113	10/20/2005	Actinium-228	1.93	0.320	0.300			1464892.823	598478.911
SU5&6-153-113	10/20/2005	Actinium-227	4.6	0.380	0.380	U	UJ	1464892.823	598478.911
SU5&6-153-114	10/20/2005	Uranium-238	2.2	0.830	0.030			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Uranium-235	3.2	0.059	0.059	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Uranium-233/234	2	0.760	0.030			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Thorium-232	2.1	1.170	0.050			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Thorium-230	2.8	1.060	0.050			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Thorium-228	2.6	1.080	0.060			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Thallium-208	0.498	0.320	0.100			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Radium-228	2.1	0.820	0.320			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Radium-226	2.9	0.730	0.130		J	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Protactinium-231	4	2.800	2.800	U	U	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Potassium-40	47.8	23.400	0.800			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Lead-214	8.9	0.700	0.130			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Lead-212	16.6	0.850	0.120			1464907.823	598478.911

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU5&6-153-114	10/20/2005	Lead-210	7.4	2.300	2.300	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Cobalt-60	0.7	0.110	0.110	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Cesium-137	3.8	0.130	0.130	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Bismuth-214	1.17	0.730	0.130			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Bismuth-212	9.87	0.780	0.700			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Bismuth-207	1.2	0.075	0.075	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Americium-241	63	0.170	0.170	U	UJ	1464907.823	598478.911
SU5&6-153-114	10/20/2005	Actinium-228	1.93	0.820	0.320			1464907.823	598478.911
SU5&6-153-114	10/20/2005	Actinium-227	4.6	0.490	0.490	U	UJ	1464907.823	598478.911
SU7-153-115	10/17/2005	Thorium-232	2.1	1.050	0.030			1464971.225	598409.589
SU7-153-115	10/17/2005	Thorium-230	2.8	1.740	0.030			1464971.225	598409.589
SU7-153-115	10/17/2005	Thorium-228	2.6	0.960	0.060			1464971.225	598409.589
SU7-153-115	10/17/2005	Plutonium-239/240	62	0.061	0.061	U	UJ	1464971.225	598409.589
SU7-153-115	10/17/2005	Plutonium-238	55	0.190	0.060			1464971.225	598409.589
SU7-153-116	10/17/2005	Thorium-232	2.1	1.090	0.050			1464986.225	598409.589
SU7-153-116	10/17/2005	Thorium-230	2.8	2.350	0.030			1464986.225	598409.589
SU7-153-116	10/17/2005	Thorium-228	2.6	1.320	0.070			1464986.225	598409.589
SU7-153-116	10/17/2005	Plutonium-239/240	62	0.043	0.043	U	UJ	1464986.225	598409.589
SU7-153-116	10/17/2005	Plutonium-238	55	0.218	0.049			1464986.225	598409.589
SU7-153-117	10/17/2005	Thorium-232	2.1	1.070	0.030			1465001.225	598409.589
SU7-153-117	10/17/2005	Thorium-230	2.8	1.300	0.050			1465001.225	598409.589
SU7-153-117	10/17/2005	Thorium-228	2.6	0.960	0.060			1465001.225	598409.589
SU7-153-117	10/17/2005	Plutonium-239/240	62	0.049	0.049	U	UJ	1465001.225	598409.589
SU7-153-117	10/17/2005	Plutonium-238	55	0.069	0.065	J	J	1465001.225	598409.589
SU7-153-118	10/17/2005	Thorium-232	2.1	0.840	0.030			1464963.725	598422.580
SU7-153-118	10/17/2005	Thorium-230	2.8	1.530	0.040			1464963.725	598422.580
SU7-153-118	10/17/2005	Thorium-228	2.6	0.780	0.070			1464963.725	598422.580
SU7-153-118	10/17/2005	Plutonium-239/240	62	0.061	0.061	U	UJ	1464963.725	598422.580
SU7-153-118	10/17/2005	Plutonium-238	55	0.082	0.082	U	UJ	1464963.725	598422.580
SU7-153-119	10/17/2005	Thorium-232	2.1	0.920	0.030			1464978.725	598422.580
SU7-153-119	10/17/2005	Thorium-230	2.8	0.970	0.060			1464978.725	598422.580
SU7-153-119	10/17/2005	Thorium-228	2.6	1.280	0.070			1464978.725	598422.580
SU7-153-119	10/17/2005	Plutonium-239/240	62	0.041	0.041	U	UJ	1464978.725	598422.580
SU7-153-119	10/17/2005	Plutonium-238	55	0.076	0.063	J	J	1464978.725	598422.580
SU7-153-120	10/17/2005	Thorium-232	2.1	0.750	0.060			1464993.725	598422.580
SU7-153-120	10/17/2005	Thorium-230	2.8	1.520	0.050			1464993.725	598422.580
SU7-153-120	10/17/2005	Thorium-228	2.6	0.860	0.080			1464993.725	598422.580
SU7-153-120	10/17/2005	Plutonium-239/240	62	0.059	0.059	U	UJ	1464993.725	598422.580
SU7-153-120	10/17/2005	Plutonium-238	55	0.091	0.064	J	J	1464993.725	598422.580
SU7-153-121D	10/17/2005	Thorium-232	2.1	1.010	0.050			1465008.725	598422.580
SU7-153-121	10/17/2005	Thorium-232	2.1	0.880	0.050			1465008.725	598422.580
SU7-153-121	**10/17/2005**	**Thorium-230**	**2.8**	**3.020**	**0.060**			1465008.725	598422.580
SU7-153-121D	10/17/2005	Thorium-230	2.8	2.440	0.060			1465008.725	598422.580
SU7-153-121D	10/17/2005	Thorium-228	2.6	1.120	0.070			1465008.725	598422.580
SU7-153-121	10/17/2005	Thorium-228	2.6	0.910	0.070			1465008.725	598422.580
SU7-153-121	10/17/2005	Plutonium-239/240	62	0.056	0.056	U	UJ	1465008.725	598422.580
SU7-153-121D	10/17/2005	Plutonium-239/240	62	0.042	0.042	U	UJ	1465008.725	598422.580
SU7-153-121	10/17/2005	Plutonium-238	55	0.430	0.080		J	1465008.725	598422.580
SU7-153-121D	10/17/2005	Plutonium-238	55	0.205	0.067		J	1465008.725	598422.580
SU7-153-122	10/17/2005	Thorium-232	2.1	0.980	0.040			1464956.225	598435.570
SU7-153-122	10/17/2005	Thorium-230	2.8	0.990	0.030			1464956.225	598435.570
SU7-153-122	10/17/2005	Thorium-228	2.6	1.080	0.040			1464956.225	598435.570
SU7-153-122	10/17/2005	Plutonium-239/240	62	0.065	0.065	U	UJ	1464956.225	598435.570
SU7-153-122	10/17/2005	Plutonium-238	55	0.800	0.100			1464956.225	598435.570
SU7-153-123	10/17/2005	Thorium-232	2.1	0.810	0.140			1464986.225	598435.570
SU7-153-123	10/17/2005	Thorium-230	2.8	1.230	0.030			1464986.225	598435.570
SU7-153-123	10/17/2005	Thorium-228	2.6	0.900	0.030			1464986.225	598435.570
SU7-153-123	10/17/2005	Plutonium-239/240	62	0.022	0.022	U	UJ	1464986.225	598435.570
SU7-153-123	10/17/2005	Plutonium-238	55	0.032	0.022	J	J	1464986.225	598435.570
SU7-153-124	10/17/2005	Thorium-232	2.1	0.920	0.050			1465001.225	598435.570
SU7-153-124	10/17/2005	Thorium-230	2.8	1.870	0.050			1465001.225	598435.570
SU7-153-124	10/17/2005	Thorium-228	2.6	1.150	0.060			1465001.225	598435.570
SU7-153-124	10/17/2005	Plutonium-239/240	62	0.064	0.064	U	UJ	1465001.225	598435.570
SU7-153-124	10/17/2005	Plutonium-238	55	0.074	0.068	J	J	1465001.225	598435.570
SU7-153-125	10/17/2005	Thorium-232	2.1	0.890	0.040			1464993.725	598448.561
SU7-153-125	10/17/2005	Thorium-230	2.8	1.700	0.040			1464993.725	598448.561
SU7-153-125	10/17/2005	Thorium-228	2.6	0.870	0.050			1464993.725	598448.561

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU7-153-125	10/17/2005	Plutonium-239/240	62	0.047	0.047	U	UJ	1464993.725	598448.561
SU7-153-125	10/17/2005	Plutonium-238	55	0.054	0.054	U	UJ	1464993.725	598448.561
SU7-153-126	10/17/2005	Thorium-232	2.1	0.890	0.050			1465008.725	598448.561
SU7-153-126	10/17/2005	Thorium-230	2.8	1.340	0.030			1465008.725	598448.561
SU7-153-126	10/17/2005	Thorium-228	2.6	0.740	0.050			1465008.725	598448.561
SU7-153-126	10/17/2005	Plutonium-239/240	62	0.046	0.046	U	UJ	1465008.725	598448.561
SU7-153-126	10/17/2005	Plutonium-238	55	0.141	0.067			1465008.725	598448.561
SU7-153-127	10/17/2005	Thorium-232	2.1	0.950	0.070			1465001.225	598461.551
SU7-153-127	10/17/2005	Thorium-230	2.8	1.190	0.030			1465001.225	598461.551
SU7-153-127	10/17/2005	Thorium-228	2.6	0.870	0.030			1465001.225	598461.551
SU7-153-127	10/17/2005	Plutonium-239/240	62	0.044	0.044	U	UJ	1465001.225	598461.551
SU7-153-127	10/17/2005	Plutonium-238	55	0.068	0.068	U	UJ	1465001.225	598461.551
SU12-153-128	10/18/2005	Thorium-232	2.1	0.970	0.030			1465082.054	598419.528
SU12-153-128	10/18/2005	Thorium-230	2.8	1.680	0.060			1465082.054	598419.528
SU12-153-128	10/18/2005	Thorium-228	2.6	1.020	0.060			1465082.054	598419.528
SU11-153-129	10/24/2005	Radium-228	2.1	0.350	0.350	U	U	1465067.959	598459.122
SU11-153-129	10/24/2005	Radium-226	2.9	0.340	0.260		J	1465067.959	598459.122
SU11-153-129	10/24/2005	Protactinium-231	4	1.800	1.800	U	U	1465067.959	598459.122
SU11-153-129	10/24/2005	Potassium-40	47.8	4.300	0.500			1465067.959	598459.122
SU11-153-129	10/24/2005	Lead-210	7.4	1.500	1.500	U	UJ	1465067.959	598459.122
SU11-153-129	10/24/2005	Cobalt-60	0.7	0.096	0.096	U	UJ	1465067.959	598459.122
SU11-153-129	10/24/2005	Cesium-137	3.8	0.053	0.053	U	UJ	1465067.959	598459.122
SU11-153-129	10/24/2005	Bismuth-210M	8.3	0.067	0.067	U	UJ	1465067.959	598459.122
SU11-153-129	10/24/2005	Bismuth-207	1.2	0.046	0.046	U	UJ	1465067.959	598459.122
SU11-153-129	10/24/2005	Americium-241	63	0.110	0.110	U	UJ	1465067.959	598459.122
SU11-153-129	10/24/2005	Actinium-227	4.6	0.280	0.280	U	UJ	1465067.959	598459.122
SU11-153-130	10/24/2005	Radium-228	2.1	0.220	0.220	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Radium-226	2.9	0.410	0.240		J	1465081.629	598460.314
SU11-153-130	10/24/2005	Protactinium-231	4	1.500	1.500	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Potassium-40	47.8	2.780	0.140			1465081.629	598460.314
SU11-153-130	10/24/2005	Lead-210	7.4	1.300	1.300	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Cobalt-60	0.7	0.055	0.055	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Cesium-137	3.8	0.075	0.075	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Bismuth-210M	8.3	0.057	0.057	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Bismuth-207	1.2	0.042	0.042	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Americium-241	63	0.094	0.094	U	UJ	1465081.629	598460.314
SU11-153-130	10/24/2005	Actinium-227	4.6	0.300	0.300	U	U	1465081.629	598460.314
SU11-153-131	10/24/2005	Radium-228	2.1	0.290	0.290	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Radium-226	2.9	0.210	0.210	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Protactinium-231	4	1.800	1.800	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Potassium-40	47.8	2.240	0.470			1465061.427	598466.671
SU11-153-131	10/24/2005	Lead-212	16.6	0.107	0.074			1465061.427	598466.671
SU11-153-131	10/24/2005	Lead-210	7.4	1.300	1.300	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Cobalt-60	0.7	0.077	0.077	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Cesium-137	3.8	0.070	0.070	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Bismuth-210M	8.3	0.061	0.061	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Bismuth-207	1.2	0.052	0.052	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Americium-241	63	0.092	0.092	U	UJ	1465061.427	598466.671
SU11-153-131	10/24/2005	Actinium-227	4.6	0.200	0.200	U	UJ	1465061.427	598466.671
SU11-153-132	10/24/2005	Radium-228	2.1	0.380	0.380	U	U	1465072.181	598460.846
SU11-153-132	10/24/2005	Radium-226	2.9	0.620	0.320		J	1465072.181	598460.846
SU11-153-132	10/24/2005	Protactinium-231	4	1.700	1.700	U	UJ	1465072.181	598460.846
SU11-153-132	10/24/2005	Potassium-40	47.8	6.300	0.600			1465072.181	598460.846
SU11-153-132	10/24/2005	Lead-214	8.9	0.430	0.120			1465072.181	598460.846
SU11-153-132	10/24/2005	Lead-212	16.6	0.181	0.120			1465072.181	598460.846
SU11-153-132	10/24/2005	Lead-210	7.4	1.600	1.600	U	UJ	1465072.181	598460.846
SU11-153-132	10/24/2005	Cobalt-60	0.7	0.091	0.091	U	UJ	1465072.181	598460.846
SU11-153-132	10/24/2005	Cesium-137	3.8	0.098	0.098	U	UJ	1465072.181	598460.846
SU11-153-132	10/24/2005	Bismuth-210M	8.3	0.085	0.085	U	UJ	1465072.181	598460.846
SU11-153-132	10/24/2005	Bismuth-207	1.2	0.043	0.043	U	UJ	1465072.181	598460.846
SU11-153-132	10/24/2005	Americium-241	63	0.130	0.130	U	U	1465072.181	598460.846
SU11-153-132	10/24/2005	Actinium-227	4.6	0.320	0.320	U	UJ	1465072.181	598460.846
SU11-153-133	10/24/2005	Radium-228	2.1	0.320	0.320	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Radium-226	2.9	0.310	0.280		J	1465074.256	598453.058
SU11-153-133	10/24/2005	Protactinium-231	4	1.700	1.700	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Potassium-40	47.8	3.700	0.800			1465074.256	598453.058
SU11-153-133	10/24/2005	Lead-214	8.9	0.360	0.090			1465074.256	598453.058
SU11-153-133	10/24/2005	Lead-212	16.6	0.158	0.120			1465074.256	598453.058

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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU11-153-133	10/24/2005	Lead-210	7.4	1.700	1.700	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Cobalt-60	0.7	0.100	0.100	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Cesium-137	3.8	0.088	0.088	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Bismuth-210M	8.3	0.061	0.061	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Bismuth-207	1.2	0.061	0.061	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Americium-241	63	0.120	0.120	U	UJ	1465074.256	598453.058
SU11-153-133	10/24/2005	Actinium-227	4.6	0.320	0.320	U	UJ	1465074.256	598453.058
SU11-153-134	10/24/2005	Thallium-208	0.498	0.069	0.041			1465067.180	598452.720
SU11-153-134	10/24/2005	Radium-228	2.1	0.350	0.350	U	U	1465067.180	598452.720
SU11-153-134	10/24/2005	Radium-226	2.9	0.319	0.220		J	1465067.180	598452.720
SU11-153-134	10/24/2005	Protactinium-231	4	1.300	1.300	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Potassium-40	47.8	5.700	0.500			1465067.180	598452.720
SU11-153-134	10/24/2005	Lead-214	8.9	0.301	0.096			1465067.180	598452.720
SU11-153-134	10/24/2005	Lead-212	16.6	0.097	0.096			1465067.180	598452.720
SU11-153-134	10/24/2005	Lead-210	7.4	1.300	1.300	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Cobalt-60	0.7	0.074	0.074	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Cesium-137	3.8	0.072	0.072	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Bismuth-210M	8.3	0.069	0.069	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Bismuth-207	1.2	0.050	0.050	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Americium-241	63	0.110	0.110	U	UJ	1465067.180	598452.720
SU11-153-134	10/24/2005	Actinium-227	4.6	0.250	0.250	U	UJ	1465067.180	598452.720
SU11-153-135	10/24/2005	Radium-228	2.1	0.300	0.300	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Radium-226	2.9	0.180	0.180	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Protactinium-231	4	1.300	1.300	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Potassium-40	47.8	4.000	0.600			1465070.455	598465.767
SU11-153-135	10/24/2005	Lead-214	8.9	0.226	0.094			1465070.455	598465.767
SU11-153-135	10/24/2005	Lead-212	16.6	0.082	0.077			1465070.455	598465.767
SU11-153-135	10/24/2005	Lead-210	7.4	1.200	1.200	U	U	1465070.455	598465.767
SU11-153-135	10/24/2005	Cobalt-60	0.7	0.087	0.087	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Cesium-137	3.8	0.068	0.068	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Bismuth-210M	8.3	0.050	0.050	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Bismuth-207	1.2	0.027	0.027	U	U	1465070.455	598465.767
SU11-153-135	10/24/2005	Americium-241	63	0.074	0.074	U	UJ	1465070.455	598465.767
SU11-153-135	10/24/2005	Actinium-227	4.6	0.250	0.250	U	UJ	1465070.455	598465.767
SU11-153-136	10/24/2005	Radium-228	2.1	0.300	0.300	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Radium-226	2.9	0.280	0.280	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Protactinium-231	4	1.900	1.900	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Potassium-40	47.8	2.100	0.500			1465064.264	598456.609
SU11-153-136	10/24/2005	Lead-210	7.4	1.800	1.800	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Cobalt-60	0.7	0.087	0.087	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Cesium-137	3.8	0.078	0.078	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Bismuth-210M	8.3	0.057	0.057	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Bismuth-207	1.2	0.070	0.070	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Americium-241	63	0.110	0.110	U	UJ	1465064.264	598456.609
SU11-153-136	10/24/2005	Actinium-227	4.6	0.330	0.330	U	UJ	1465064.264	598456.609
SU15-153-137D	02/06/2006	Thorium-232	2.1	1.010	0.020		J	1464846.387	598476.489
SU15-153-137	02/06/2006	Thorium-232	2.1	0.680	0.030		J	1464846.387	598476.489
SU15-153-137D	02/06/2006	Thorium-230	2.8	1.030	0.020		J	1464846.387	598476.489
SU15-153-137	02/06/2006	Thorium-230	2.8	0.850	0.020			1464846.387	598476.489
SU15-153-137D	02/06/2006	Thorium-228	2.6	1.130	0.050		J	1464846.387	598476.489
SU15-153-137	02/06/2006	Thorium-228	2.6	0.760	0.040		J	1464846.387	598476.489
SU15-153-137D	02/06/2006	Thallium-208	0.498	0.388	0.082			1464846.387	598476.489
SU15-153-137	02/06/2006	Thallium-208	0.498	0.330	0.100			1464846.387	598476.489
SU15-153-137D	02/06/2006	Radium-228	2.1	1.080	0.280			1464846.387	598476.489
SU15-153-137	02/06/2006	Radium-228	2.1	0.760	0.390			1464846.387	598476.489
SU15-153-137D	02/06/2006	Radium-226	2.9	0.890	0.150	J	J	1464846.387	598476.489
SU15-153-137	02/06/2006	Radium-226	2.9	0.590	0.370	J	J	1464846.387	598476.489
SU15-153-137	02/06/2006	Protactinium-231	4	1.700	1.700	U	U	1464846.387	598476.489
SU15-153-137D	02/06/2006	Protactinium-231	4	1.600	1.600	U	U	1464846.387	598476.489
SU15-153-137D	02/06/2006	Potassium-40	47.8	37.600	0.900		J	1464846.387	598476.489
SU15-153-137	02/06/2006	Potassium-40	47.8	22.600	0.200		J	1464846.387	598476.489
SU15-153-137D	02/06/2006	Lead-214	8.9	1.070	0.130		J	1464846.387	598476.489
SU15-153-137	02/06/2006	Lead-214	8.9	0.620	0.140		J	1464846.387	598476.489
SU15-153-137D	02/06/2006	Lead-212	16.6	1.320	0.100			1464846.387	598476.489
SU15-153-137	02/06/2006	Lead-212	16.6	0.750	0.110			1464846.387	598476.489
SU15-153-137D	02/06/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464846.387	598476.489
SU15-153-137	02/06/2006	Lead-210	7.4	2.000	2.000	U	UJ	1464846.387	598476.489
SU15-153-137	02/06/2006	Cobalt-60	0.7	0.091	0.091	U	UJ	1464846.387	598476.489

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU15-153-137D	02/06/2006	Cobalt-60	0.7	0.089	0.089	U	UJ	1464846.387	598476.489
SU15-153-137	02/06/2006	Cesium-137	3.8	0.100	0.100	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Cesium-137	3.8	0.082	0.082	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Bismuth-214	1.17	0.890	0.150			1464846.387	598476.489
SU15-153-137D	02/06/2006	Bismuth-212	9.87	1.690	1.200			1464846.387	598476.489
SU15-153-137	02/06/2006	Bismuth-210M	8.3	0.099	0.099	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Bismuth-210M	8.3	0.087	0.087	U	UJ	1464846.387	598476.489
SU15-153-137	02/06/2006	Bismuth-207	1.2	0.082	0.082	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Bismuth-207	1.2	0.067	0.067	U	UJ	1464846.387	598476.489
SU15-153-137	02/06/2006	Americium-241	63	0.170	0.170	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Americium-241	63	0.160	0.160	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Actinium-228	1.93	1.080	0.280			1464846.387	598476.489
SU15-153-137	02/06/2006	Actinium-228	1.93	0.760	0.390			1464846.387	598476.489
SU15-153-137	02/06/2006	Actinium-227	4.6	0.400	0.400	U	UJ	1464846.387	598476.489
SU15-153-137D	02/06/2006	Actinium-227	4.6	0.390	0.390	U	UJ	1464846.387	598476.489
SU15-153-138	02/06/2006	Thorium-232	2.1	0.720	0.040			1464850.020	598476.377
SU15-153-138	02/06/2006	Thorium-230	2.8	1.100	0.020			1464850.020	598476.377
SU15-153-138	02/06/2006	Thorium-228	2.6	0.590	0.050			1464850.020	598476.377
SU15-153-138	02/06/2006	Thallium-208	0.498	0.390	0.090			1464850.020	598476.377
SU15-153-138	02/06/2006	Radium-228	2.1	0.780	0.340			1464850.020	598476.377
SU15-153-138	02/06/2006	Radium-226	2.9	0.780	0.400	J	J	1464850.020	598476.377
SU15-153-138	02/06/2006	Protactinium-231	4	1.800	1.800	U	U	1464850.020	598476.377
SU15-153-138	02/06/2006	Potassium-40	47.8	18.800	0.800			1464850.020	598476.377
SU15-153-138	02/06/2006	Lead-214	8.9	0.640	0.140			1464850.020	598476.377
SU15-153-138	02/06/2006	Lead-212	16.6	0.790	0.160			1464850.020	598476.377
SU15-153-138	02/06/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464850.020	598476.377
SU15-153-138	02/06/2006	Cobalt-60	0.7	0.110	0.110	U	UJ	1464850.020	598476.377
SU15-153-138	02/06/2006	Cesium-137	3.8	0.078	0.078	U	UJ	1464850.020	598476.377
SU15-153-138	02/06/2006	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464850.020	598476.377
SU15-153-138	02/06/2006	Bismuth-207	1.2	0.079	0.079	U	UJ	1464850.020	598476.377
SU15-153-138	02/06/2006	Americium-241	63	0.180	0.180	U	UJ	1464850.020	598476.377
SU15-153-138	02/06/2006	Actinium-228	1.93	0.780	0.340			1464850.020	598476.377
SU15-153-138	02/06/2006	Actinium-227	4.6	0.460	0.460	U	UJ	1464850.020	598476.377
SU15-153-139	02/06/2006	Thorium-232	2.1	0.215	0.025			1464846.430	598471.290
SU15-153-139	02/06/2006	Thorium-230	2.8	1.270	0.030			1464846.430	598471.290
SU15-153-139	02/06/2006	Thorium-228	2.6	0.239	0.044		J	1464846.430	598471.290
SU15-153-139	02/06/2006	Thallium-208	0.498	0.052	0.052	U	U	1464846.430	598471.290
SU15-153-139	02/06/2006	Radium-228	2.1	0.270	0.270	U	UJ	1464846.430	598471.290
SU15-153-139	02/06/2006	Radium-226	2.9	0.290	0.230	J	J	1464846.430	598471.290
SU15-153-139	02/06/2006	Protactinium-231	4	1.100	1.100	U	UJ	1464846.430	598471.290
SU15-153-139	02/06/2006	Potassium-40	47.8	6.000	0.100			1464846.430	598471.290
SU15-153-139	02/06/2006	Lead-214	8.9	0.420	0.100			1464846.430	598471.290
SU15-153-139	02/06/2006	Lead-212	16.6	0.142	0.090			1464846.430	598471.290
SU15-153-139	02/06/2006	Lead-210	7.4	1.400	1.400	U	U	1464846.430	598471.290
SU15-153-139	02/06/2006	Cobalt-60	0.7	0.078	0.078	U	UJ	1464846.430	598471.290
SU15-153-139	02/06/2006	Cesium-137	3.8	0.054	0.054	U	U	1464846.430	598471.290
SU15-153-139	02/06/2006	Bismuth-210M	8.3	0.055	0.055	U	UJ	1464846.430	598471.290
SU15-153-139	02/06/2006	Bismuth-207	1.2	0.050	0.050	U	UJ	1464846.430	598471.290
SU15-153-139	02/06/2006	Americium-241	63	0.094	0.094	U	UJ	1464846.430	598471.290
SU15-153-139	02/06/2006	Actinium-227	4.6	0.260	0.260	U	U	1464846.430	598471.290
SU15-153-140	03/06/2006	Thorium-232	2.1	1.170	0.050			1464842.897	598464.544
SU15-153-140	03/06/2006	Thorium-230	2.8	1.030	0.050			1464842.897	598464.544
SU15-153-140	03/06/2006	Thorium-228	2.6	1.140	0.110			1464842.897	598464.544
SU15-153-140	03/06/2006	Thallium-208	0.498	0.380	0.150			1464842.897	598464.544
SU15-153-140	03/06/2006	Radium-228	2.1	1.700	0.500			1464842.897	598464.544
SU15-153-140	03/06/2006	Radium-226	2.9	0.840	0.270	J	J	1464842.897	598464.544
SU15-153-140	03/06/2006	Protactinium-231	4	2.900	2.900	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Potassium-40	47.8	33.400	1.100			1464842.897	598464.544
SU15-153-140	03/06/2006	Lead-214	8.9	0.680	0.240			1464842.897	598464.544
SU15-153-140	03/06/2006	Lead-212	16.6	1.180	0.220			1464842.897	598464.544
SU15-153-140	03/06/2006	Lead-210	7.4	3.800	3.800	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Cobalt-60	0.7	0.140	0.140	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Cesium-137	3.8	0.130	0.130	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Bismuth-214	1.17	0.840	0.270			1464842.897	598464.544
SU15-153-140	03/06/2006	Bismuth-210M	8.3	0.150	0.150	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Bismuth-207	1.2	0.120	0.120	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Americium-241	63	0.290	0.290	U	UJ	1464842.897	598464.544
SU15-153-140	03/06/2006	Actinium-228	1.93	1.700	0.500			1464842.897	598464.544

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Table 1: Offsite Verification Results

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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU15-153-140	03/06/2006	Actinium-227	4.6	0.610	0.610	U	UJ	1464842.897	598464.544
SU15-153-141	02/06/2006	Thorium-232	2.1	0.930	0.060			1464842.825	598473.706
SU15-153-141	02/06/2006	Thorium-230	2.8	0.920	0.030			1464842.825	598473.706
SU15-153-141	02/06/2006	Thorium-228	2.6	0.930	0.050			1464842.825	598473.706
SU15-153-141	02/06/2006	Thallium-208	0.498	0.450	0.050			1464842.825	598473.706
SU15-153-141	02/06/2006	Radium-228	2.1	1.300	0.220			1464842.825	598473.706
SU15-153-141	02/06/2006	Radium-226	2.9	0.880	0.120	J	J	1464842.825	598473.706
SU15-153-141	02/06/2006	Protactinium-231	4	1.400	1.400	U	U	1464842.825	598473.706
SU15-153-141	02/06/2006	Potassium-40	47.8	33.000	0.600			1464842.825	598473.706
SU15-153-141	02/06/2006	Lead-214	8.9	0.870	0.100			1464842.825	598473.706
SU15-153-141	02/06/2006	Lead-212	16.6	1.190	0.090			1464842.825	598473.706
SU15-153-141	02/06/2006	Lead-210	7.4	1.600	1.600	U	UJ	1464842.825	598473.706
SU15-153-141	02/06/2006	Cobalt-60	0.7	0.073	0.073	U	UJ	1464842.825	598473.706
SU15-153-141	02/06/2006	Cesium-137	3.8	0.068	0.068	U	UJ	1464842.825	598473.706
SU15-153-141	02/06/2006	Bismuth-214	1.17	0.880	0.120			1464842.825	598473.706
SU15-153-141	02/06/2006	Bismuth-212	9.87	0.900	0.860			1464842.825	598473.706
SU15-153-141	02/06/2006	Bismuth-210M	8.3	0.071	0.071	U	UJ	1464842.825	598473.706
SU15-153-141	02/06/2006	Bismuth-207	1.2	0.054	0.054	U	UJ	1464842.825	598473.706
SU15-153-141	02/06/2006	Americium-241	63	0.140	0.140	U	UJ	1464842.825	598473.706
SU15-153-141	02/06/2006	Actinium-228	1.93	1.300	0.220			1464842.825	598473.706
SU15-153-141	02/06/2006	Actinium-227	4.6	1.850	0.460	J	J	1464842.825	598473.706
SU15-153-142	02/06/2006	Thorium-234	176	1.200	0.900			1464847.775	598475.544
SU15-153-142	02/06/2006	Thorium-232	2.1	1.080	0.030			1464847.775	598475.544
SU15-153-142	02/06/2006	Thorium-230	2.8	0.880	0.020		J	1464847.775	598475.544
SU15-153-142	02/06/2006	Thorium-228	2.6	1.160	0.040			1464847.775	598475.544
SU15-153-142	02/06/2006	Thallium-208	0.498	0.470	0.070			1464847.775	598475.544
SU15-153-142	02/06/2006	Radium-228	2.1	1.600	0.240			1464847.775	598475.544
SU15-153-142	02/06/2006	Radium-226	2.9	0.820	0.120	J	J	1464847.775	598475.544
SU15-153-142	02/06/2006	Protactinium-231	4	1.400	1.400	U	UJ	1464847.775	598475.544
SU15-153-142	02/06/2006	Potassium-40	47.8	33.100	0.600			1464847.775	598475.544
SU15-153-142	02/06/2006	Lead-214	8.9	0.930	0.110			1464847.775	598475.544
SU15-153-142	02/06/2006	Lead-212	16.6	1.170	0.130			1464847.775	598475.544
SU15-153-142	02/06/2006	Lead-210	7.4	1.700	1.700	U	UJ	1464847.775	598475.544
SU15-153-142	02/06/2006	Cobalt-60	0.7	0.087	0.087	U	UJ	1464847.775	598475.544
SU15-153-142	02/06/2006	Cesium-137	3.8	0.078	0.078	U	U	1464847.775	598475.544
SU15-153-142	02/06/2006	Bismuth-214	1.17	0.820	0.120			1464847.775	598475.544
SU15-153-142	02/06/2006	Bismuth-210M	8.3	0.074	0.074	U	UJ	1464847.775	598475.544
SU15-153-142	02/06/2006	Bismuth-207	1.2	0.060	0.060	U	UJ	1464847.775	598475.544
SU15-153-142	02/06/2006	Americium-241	63	0.130	0.130	U	UJ	1464847.775	598475.544
SU15-153-142	02/06/2006	Actinium-228	1.93	1.600	0.240			1464847.775	598475.544
SU15-153-142	02/06/2006	Actinium-227	4.6	0.320	0.320	U	UJ	1464847.775	598475.544
SU4-153-143	10/19/2005	Uranium-238	2.2	0.620	0.040			1464827.917	598312.846
SU4-153-143	10/19/2005	Uranium-235	3.2	0.122	0.033			1464827.917	598312.846
SU4-153-143	10/19/2005	Uranium-233/234	2	0.550	0.030			1464827.917	598312.846
SU4-153-143	10/19/2005	Thorium-232	2.1	0.930	0.050			1464827.917	598312.846
SU4-153-143	10/19/2005	Thorium-230	2.8	1.050	0.030			1464827.917	598312.846
SU4-153-143	10/19/2005	Thorium-228	2.6	0.790	0.050			1464827.917	598312.846
SU4-153-143	10/19/2005	Thallium-208	0.498	0.300	0.130			1464827.917	598312.846
SU4-153-143	10/19/2005	Radium-228	2.1	0.790	0.350			1464827.917	598312.846
SU4-153-143	10/19/2005	Radium-226	2.9	0.770	0.480		J	1464827.917	598312.846
SU4-153-143	10/19/2005	Protactinium-231	4	2.500	2.500	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Potassium-40	47.8	22.200	0.800			1464827.917	598312.846
SU4-153-143	10/19/2005	Plutonium-239/240	62	0.038	0.038	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Plutonium-238	55	0.113	0.067		J	1464827.917	598312.846
SU4-153-143	10/19/2005	Lead-214	8.9	0.770	0.180			1464827.917	598312.846
SU4-153-143	10/19/2005	Lead-212	16.6	0.820	0.220		J	1464827.917	598312.846
SU4-153-143	10/19/2005	Lead-210	7.4	2.700	2.700	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Cobalt-60	0.7	0.110	0.110	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Bismuth-210M	8.3	0.130	0.130	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Bismuth-207	1.2	0.092	0.092	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Arsenic (mg/kg)	28.5	5.800	1.200			1464827.917	598312.846
SU4-153-143	10/19/2005	Americium-241	63	0.220	0.220	U	UJ	1464827.917	598312.846
SU4-153-143	10/19/2005	Actinium-228	1.93	0.790	0.350			1464827.917	598312.846
SU4-153-143	10/19/2005	Actinium-227	4.6	0.570	0.570	U	UJ	1464827.917	598312.846
SU4-153-144	10/19/2005	Uranium-238	2.2	0.750	0.040			1464805.891	598329.680
SU4-153-144	10/19/2005	Uranium-235	3.2	0.036	0.032	J	J	1464805.891	598329.680
SU4-153-144	10/19/2005	Uranium-233/234	2	0.710	0.030			1464805.891	598329.680

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU4-153-144	10/19/2005	Thorium-232	2.1	0.910	0.050			1464805.891	598329.680
SU4-153-144	10/19/2005	Thorium-230	2.8	0.940	0.050			1464805.891	598329.680
SU4-153-144	10/19/2005	Thorium-228	2.6	1.160	0.060			1464805.891	598329.680
SU4-153-144	10/19/2005	Thallium-208	0.498	0.390	0.120			1464805.891	598329.680
SU4-153-144	10/19/2005	Radium-228	2.1	0.640	0.520			1464805.891	598329.680
SU4-153-144	10/19/2005	Radium-226	2.9	0.770	0.430		J	1464805.891	598329.680
SU4-153-144	10/19/2005	Protactinium-231	4	2.700	2.700	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Potassium-40	47.8	33.000	1.200			1464805.891	598329.680
SU4-153-144	10/19/2005	Plutonium-239/240	62	0.050	0.050	U	U	1464805.891	598329.680
SU4-153-144	10/19/2005	Plutonium-238	55	0.065	0.065	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Lead-214	8.9	0.920	0.190			1464805.891	598329.680
SU4-153-144	10/19/2005	Lead-212	16.6	0.960	0.180			1464805.891	598329.680
SU4-153-144	10/19/2005	Lead-210	7.4	2.400	2.400	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Cobalt-60	0.7	0.140	0.140	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Bismuth-207	1.2	0.110	0.110	U	UJ	1464805.891	598329.680
SU4-153-144	10/19/2005	Arsenic (mg/kg)	28.5	3.700	1.100		U	1464805.891	598329.680
SU4-153-144	10/19/2005	Americium-241	63	0.210	0.210	U	U	1464805.891	598329.680
SU4-153-144	10/19/2005	Actinium-228	1.93	0.640	0.520			1464805.891	598329.680
SU4-153-144	10/19/2005	Actinium-227	4.6	0.520	0.520	U	UJ	1464805.891	598329.680
SU4-153-145	10/19/2005	Uranium-238	2.2	0.750	0.050			1464827.548	598331.314
SU4-153-145	10/19/2005	Uranium-235	3.2	0.053	0.053	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Uranium-233/234	2	0.860	0.040			1464827.548	598331.314
SU4-153-145	10/19/2005	Thorium-232	2.1	0.970	0.050			1464827.548	598331.314
SU4-153-145	10/19/2005	Thorium-230	2.8	1.120	0.030			1464827.548	598331.314
SU4-153-145	10/19/2005	Thorium-228	2.6	1.140	0.060			1464827.548	598331.314
SU4-153-145	10/19/2005	Thallium-208	0.498	0.300	0.120			1464827.548	598331.314
SU4-153-145	10/19/2005	Radium-228	2.1	1.060	0.380			1464827.548	598331.314
SU4-153-145	10/19/2005	Radium-226	2.9	0.710	0.470		J	1464827.548	598331.314
SU4-153-145	10/19/2005	Protactinium-231	4	3.200	3.200	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Potassium-40	47.8	29.300	0.900			1464827.548	598331.314
SU4-153-145	10/19/2005	Plutonium-239/240	62	0.040	0.040	U	U	1464827.548	598331.314
SU4-153-145	10/19/2005	Plutonium-238	55	0.056	0.056	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Lead-214	8.9	0.810	0.180			1464827.548	598331.314
SU4-153-145	10/19/2005	Lead-212	16.6	0.920	0.220			1464827.548	598331.314
SU4-153-145	10/19/2005	Lead-210	7.4	3.200	3.200	U	U	1464827.548	598331.314
SU4-153-145	10/19/2005	Cobalt-60	0.7	0.140	0.140	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Bismuth-207	1.2	0.094	0.094	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Arsenic (mg/kg)	28.5	3.700	1.200		U	1464827.548	598331.314
SU4-153-145	10/19/2005	Americium-241	63	0.190	0.190	U	UJ	1464827.548	598331.314
SU4-153-145	10/19/2005	Actinium-228	1.93	1.060	0.380			1464827.548	598331.314
SU4-153-145	10/19/2005	Actinium-227	4.6	0.550	0.550	U	UJ	1464827.548	598331.314
SU4-153-146	10/19/2005	Uranium-238	2.2	0.760	0.030			1464807.407	598321.613
SU4-153-146	10/19/2005	Uranium-235	3.2	0.033	0.033	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Uranium-233/234	2	0.670	0.030			1464807.407	598321.613
SU4-153-146	10/19/2005	Thorium-232	2.1	0.680	0.070			1464807.407	598321.613
SU4-153-146	10/19/2005	Thorium-230	2.8	0.940	0.060			1464807.407	598321.613
SU4-153-146	10/19/2005	Thorium-228	2.6	0.620	0.080			1464807.407	598321.613
SU4-153-146	10/19/2005	Thallium-208	0.498	0.273	0.097			1464807.407	598321.613
SU4-153-146	10/19/2005	Radium-228	2.1	0.780	0.310			1464807.407	598321.613
SU4-153-146	10/19/2005	Radium-226	2.9	0.870	0.440		J	1464807.407	598321.613
SU4-153-146	10/19/2005	Protactinium-231	4	2.700	2.700	U	U	1464807.407	598321.613
SU4-153-146	10/19/2005	Potassium-40	47.8	21.800	0.800			1464807.407	598321.613
SU4-153-146	10/19/2005	Plutonium-239/240	62	0.037	0.037	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Plutonium-238	55	0.196	0.045		J	1464807.407	598321.613
SU4-153-146	10/19/2005	Lead-214	8.9	1.030	0.150			1464807.407	598321.613
SU4-153-146	10/19/2005	Lead-212	16.6	0.750	0.130			1464807.407	598321.613
SU4-153-146	10/19/2005	Lead-210	7.4	2.300	2.300	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Cobalt-60	0.7	0.110	0.110	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Cesium-137	3.8	0.120	0.120	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Bismuth-210M	8.3	0.100	0.100	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Bismuth-207	1.2	0.088	0.088	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Arsenic (mg/kg)	28.5	6.600	1.100			1464807.407	598321.613
SU4-153-146	10/19/2005	Americium-241	63	0.190	0.190	U	UJ	1464807.407	598321.613
SU4-153-146	10/19/2005	Actinium-228	1.93	0.780	0.310			1464807.407	598321.613

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU4-153-146	10/19/2005	Actinium-227	4.6	0.490	0.490	U	U	1464807.407	598321.613
SU4-153-147	10/19/2005	Uranium-238	2.2	0.660	0.040			1464816.728	598309.683
SU4-153-147	10/19/2005	Uranium-235	3.2	0.053	0.053	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Uranium-233/234	2	0.750	0.040			1464816.728	598309.683
SU4-153-147	10/19/2005	Thorium-232	2.1	1.120	0.060			1464816.728	598309.683
SU4-153-147	10/19/2005	Thorium-230	2.8	0.990	0.060			1464816.728	598309.683
SU4-153-147	10/19/2005	Thorium-228	2.6	1.080	0.090			1464816.728	598309.683
SU4-153-147	10/19/2005	Thallium-208	0.498	0.400	0.090			1464816.728	598309.683
SU4-153-147	10/19/2005	Radium-228	2.1	0.710	0.360			1464816.728	598309.683
SU4-153-147	10/19/2005	Radium-226	2.9	0.960	0.490		J	1464816.728	598309.683
SU4-153-147	10/19/2005	Protactinium-231	4	3.100	3.100	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Potassium-40	47.8	23.700	1.200			1464816.728	598309.683
SU4-153-147	10/19/2005	Plutonium-239/240	62	0.030	0.030	U	U	1464816.728	598309.683
SU4-153-147	10/19/2005	Plutonium-238	55	0.063	0.054	J	J	1464816.728	598309.683
SU4-153-147	10/19/2005	Lead-214	8.9	0.740	0.160			1464816.728	598309.683
SU4-153-147	10/19/2005	Lead-212	16.6	1.000	0.150			1464816.728	598309.683
SU4-153-147	10/19/2005	Lead-210	7.4	2.300	2.300	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Cobalt-60	0.7	0.150	0.150	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Cesium-137	3.8	0.110	0.110	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Bismuth-210M	8.3	0.120	0.120	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Bismuth-207	1.2	0.089	0.089	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Arsenic (mg/kg)	28.5	4.100	1.200			1464816.728	598309.683
SU4-153-147	10/19/2005	Americium-241	63	0.210	0.210	U	UJ	1464816.728	598309.683
SU4-153-147	10/19/2005	Actinium-228	1.93	0.710	0.360			1464816.728	598309.683
SU4-153-147	10/19/2005	Actinium-227	4.6	0.580	0.580	U	UJ	1464816.728	598309.683
SU4-153-148D	10/19/2005	Uranium-238	2.2	0.820	0.050			1464815.891	598321.903
SU4-153-148	10/19/2005	Uranium-238	2.2	0.760	0.030			1464815.891	598321.903
SU4-153-148D	10/19/2005	Uranium-235	3.2	0.065	0.065	U	UJ	1464815.891	598321.903
SU4-153-148	10/19/2005	Uranium-235	3.2	0.060	0.060	U	UJ	1464815.891	598321.903
SU4-153-148D	10/19/2005	Uranium-233/234	2	0.690	0.050			1464815.891	598321.903
SU4-153-148	10/19/2005	Uranium-233/234	2	0.590	0.050			1464815.891	598321.903
SU4-153-148	10/19/2005	Thorium-232	2.1	0.680	0.050			1464815.891	598321.903
SU4-153-148D	10/19/2005	Thorium-232	2.1	0.630	0.030			1464815.891	598321.903
SU4-153-148D	10/19/2005	Thorium-230	2.8	1.650	0.070			1464815.891	598321.903
SU4-153-148	10/19/2005	Thorium-230	2.8	0.960	0.030			1464815.891	598321.903
SU4-153-148D	10/19/2005	Thorium-228	2.6	0.860	0.100			1464815.891	598321.903
SU4-153-148	10/19/2005	Thorium-228	2.6	0.720	0.060			1464815.891	598321.903
SU4-153-148	10/19/2005	Thallium-208	0.498	0.350	0.060			1464815.891	598321.903
SU4-153-148D	10/19/2005	Thallium-208	0.498	0.280	0.100			1464815.891	598321.903
SU4-153-148	10/19/2005	Radium-228	2.1	0.980	0.520			1464815.891	598321.903
SU4-153-148D	10/19/2005	Radium-228	2.1	0.900	0.330			1464815.891	598321.903
SU4-153-148D	10/19/2005	Radium-226	2.9	1.040	0.510		J	1464815.891	598321.903
SU4-153-148	10/19/2005	Radium-226	2.9	0.820	0.510		J	1464815.891	598321.903
SU4-153-148	10/19/2005	Protactinium-231	4	3.200	3.200	U	UJ	1464815.891	598321.903
SU4-153-148D	10/19/2005	Protactinium-231	4	2.600	2.600	U	UJ	1464815.891	598321.903
SU4-153-148	10/19/2005	Potassium-40	47.8	17.600	0.300			1464815.891	598321.903
SU4-153-148D	10/19/2005	Potassium-40	47.8	16.600	0.700			1464815.891	598321.903
SU4-153-148	10/19/2005	Plutonium-239/240	62	0.097	0.038	J	U	1464815.891	598321.903
SU4-153-148D	10/19/2005	Plutonium-239/240	62	0.045	0.045	U	UJ	1464815.891	598321.903
SU4-153-148	10/19/2005	Plutonium-238	55	0.770	0.070		J	1464815.891	598321.903
SU4-153-148D	10/19/2005	Plutonium-238	55	0.680	0.050		J	1464815.891	598321.903
SU4-153-148	10/19/2005	Lead-214	8.9	0.980	0.180			1464815.891	598321.903
SU4-153-148D	10/19/2005	Lead-214	8.9	0.870	0.180			1464815.891	598321.903
SU4-153-148D	10/19/2005	Lead-212	16.6	0.650	0.140			1464815.891	598321.903
SU4-153-148	10/19/2005	Lead-212	16.6	0.600	0.210			1464815.891	598321.903
SU4-153-148	10/19/2005	Lead-210	7.4	2.800	2.800	U	U	1464815.891	598321.903
SU4-153-148D	10/19/2005	Lead-210	7.4	2.400	2.400	U	U	1464815.891	598321.903
SU4-153-148	10/19/2005	Cobalt-60	0.7	0.160	0.160	U	UJ	1464815.891	598321.903
SU4-153-148D	10/19/2005	Cobalt-60	0.7	0.130	0.130	U	UJ	1464815.891	598321.903
SU4-153-148D	10/19/2005	Cesium-137	3.8	0.152	0.130	J	J	1464815.891	598321.903
SU4-153-148	10/19/2005	Cesium-137	3.8	0.118	0.120	J	J	1464815.891	598321.903
SU4-153-148	10/19/2005	Bismuth-210M	8.3	0.110	0.110	U	U	1464815.891	598321.903
SU4-153-148D	10/19/2005	Bismuth-210M	8.3	0.089	0.089	U	U	1464815.891	598321.903
SU4-153-148D	10/19/2005	Bismuth-207	1.2	0.086	0.086	U	UJ	1464815.891	598321.903
SU4-153-148	10/19/2005	Bismuth-207	1.2	0.078	0.078	U	UJ	1464815.891	598321.903
SU4-153-148	10/19/2005	Arsenic (mg/kg)	28.5	9.100	1.100			1464815.891	598321.903
SU4-153-148D	10/19/2005	Arsenic (mg/kg)	28.5	8.400	1.000			1464815.891	598321.903
SU4-153-148	10/19/2005	Americium-241	63	0.230	0.230	U	UJ	1464815.891	598321.903

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU4-153-148D	10/19/2005	Americium-241	63	0.190	0.190	U	UJ	1464815.891	598321.903
SU4-153-148	10/19/2005	Actinium-228	1.93	0.980	0.520			1464815.891	598321.903
SU4-153-148D	10/19/2005	Actinium-228	1.93	0.900	0.330			1464815.891	598321.903
SU4-153-148	10/19/2005	Actinium-227	4.6	0.600	0.600	U	UJ	1464815.891	598321.903
SU4-153-148D	10/19/2005	Actinium-227	4.6	0.510	0.510	U	UJ	1464815.891	598321.903
SU8-153-149	10/17/2005	Thorium-232	2.1	0.870	0.050			1465022.254	598393.497
SU8-153-149	10/17/2005	Thorium-230	2.8	2.630	0.050		J	1465022.254	598393.497
SU8-153-149	10/17/2005	Thorium-228	2.6	0.990	0.070			1465022.254	598393.497
SU8-153-149	10/17/2005	Plutonium-239/240	62	0.051	0.051	U	UJ	1465022.254	598393.497
SU8-153-149	10/17/2005	Plutonium-238	55	0.250	0.080		J	1465022.254	598393.497
SU8-153-150	10/17/2005	Thorium-232	2.1	0.970	0.050			1465037.254	598393.497
SU8-153-150	10/17/2005	Thorium-230	2.8	1.900	0.050			1465037.254	598393.497
SU8-153-150	10/17/2005	Thorium-228	2.6	0.920	0.060			1465037.254	598393.497
SU8-153-150	10/17/2005	Plutonium-239/240	62	0.057	0.057	U	UJ	1465037.254	598393.497
SU8-153-150	10/17/2005	Plutonium-238	55	0.360	0.090		J	1465037.254	598393.497
SU8-153-151	10/17/2005	Thorium-232	2.1	0.910	0.040			1465052.254	598393.497
SU8-153-151	10/17/2005	Thorium-230	2.8	1.200	0.030			1465052.254	598393.497
SU8-153-151	10/17/2005	Thorium-228	2.6	0.820	0.050			1465052.254	598393.497
SU8-153-151	10/17/2005	Plutonium-239/240	62	0.058	0.058	U	UJ	1465052.254	598393.497
SU8-153-151	10/17/2005	Plutonium-238	55	0.195	0.062		J	1465052.254	598393.497
SU8-153-152	10/17/2005	Thorium-232	2.1	0.930	0.030			1465067.254	598393.497
SU8-153-152	10/17/2005	Thorium-230	2.8	0.990	0.050			1465067.254	598393.497
SU8-153-152	10/17/2005	Thorium-228	2.6	1.090	0.060			1465067.254	598393.497
SU8-153-152	10/17/2005	Plutonium-239/240	62	0.043	0.043	U	UJ	1465067.254	598393.497
SU8-153-152	10/17/2005	Plutonium-238	55	0.250	0.050		J	1465067.254	598393.497
SU8-153-153	10/17/2005	Thorium-232	2.1	0.930	0.040			1465082.254	598393.497
SU8-153-153	10/17/2005	Thorium-230	2.8	0.880	0.040			1465082.254	598393.497
SU8-153-153	10/17/2005	Thorium-228	2.6	1.040	0.050			1465082.254	598393.497
SU8-153-153	10/17/2005	Plutonium-239/240	62	0.048	0.048	U	UJ	1465082.254	598393.497
SU8-153-153	10/17/2005	Plutonium-238	55	0.190	0.069		J	1465082.254	598393.497
SU8-153-154	10/17/2005	Thorium-232	2.1	1.160	0.080			1465014.754	598406.488
SU8-153-154	10/17/2005	Thorium-230	2.8	2.450	0.090			1465014.754	598406.488
SU8-153-154	10/17/2005	Thorium-228	2.6	0.960	0.100			1465014.754	598406.488
SU8-153-154	10/17/2005	Plutonium-239/240	62	0.045	0.045	U	UJ	1465014.754	598406.488
SU8-153-154	10/17/2005	Plutonium-238	55	0.730	0.070		J	1465014.754	598406.488
SU8-153-155	10/17/2005	Thorium-232	2.1	1.030	0.050			1465029.754	598406.488
SU8-153-155	10/17/2005	Thorium-230	2.8	2.340	0.060			1465029.754	598406.488
SU8-153-155	10/17/2005	Thorium-228	2.6	0.900	0.070			1465029.754	598406.488
SU8-153-155	10/17/2005	Plutonium-239/240	62	0.028	0.028	U	UJ	1465029.754	598406.488
SU8-153-155	10/17/2005	Plutonium-238	55	0.370	0.060		J	1465029.754	598406.488
SU8-153-156	10/17/2005	Thorium-232	2.1	1.150	0.040			1465044.754	598406.488
SU8-153-156	10/17/2005	Thorium-230	2.8	1.410	0.060			1465044.754	598406.488
SU8-153-156	10/17/2005	Thorium-228	2.6	0.980	0.090			1465044.754	598406.488
SU8-153-156	10/17/2005	Plutonium-239/240	62	0.050	0.050	U	UJ	1465044.754	598406.488
SU8-153-156	10/17/2005	Plutonium-238	55	0.171	0.057		J	1465044.754	598406.488
SU8-153-157	10/17/2005	Thorium-232	2.1	0.920	0.050			1465059.754	598406.488
SU8-153-157	10/17/2005	Thorium-230	2.8	1.520	0.020			1465059.754	598406.488
SU8-153-157	10/17/2005	Thorium-228	2.6	1.060	0.050			1465059.754	598406.488
SU8-153-157	10/17/2005	Plutonium-239/240	62	0.038	0.026	J	UJ	1465059.754	598406.488
SU8-153-157	10/17/2005	Plutonium-238	55	0.165	0.056		J	1465059.754	598406.488
SU8-153-158	10/17/2005	Thorium-232	2.1	0.910	0.030			1465074.754	598406.488
SU8-153-158	10/17/2005	Thorium-230	2.8	1.620	0.060			1465074.754	598406.488
SU8-153-158	10/17/2005	Thorium-228	2.6	0.940	0.090			1465074.754	598406.488
SU8-153-158	10/17/2005	Plutonium-239/240	62	0.047	0.026	J	U	1465074.754	598406.488
SU8-153-158	10/17/2005	Plutonium-238	55	0.228	0.058		J	1465074.754	598406.488
SU8-153-159	10/17/2005	Thorium-232	2.1	1.150	0.050			1465089.754	598406.488
SU8-153-159	10/17/2005	Thorium-230	2.8	1.010	0.050			1465089.754	598406.488
SU8-153-159	10/17/2005	Thorium-228	2.6	1.080	0.070			1465089.754	598406.488
SU8-153-159	10/17/2005	Plutonium-239/240	62	0.050	0.050	U	UJ	1465089.754	598406.488
SU8-153-159	10/17/2005	Plutonium-238	55	0.063	0.063	U	UJ	1465089.754	598406.488
SU8-153-160	10/17/2005	Thorium-232	2.1	0.790	0.060			1465104.754	598406.488
SU8-153-160D	10/17/2005	Thorium-232	2.1	0.690	0.040			1465104.754	598406.488
SU8-153-160	10/17/2005	Thorium-230	2.8	1.680	0.050			1465104.754	598406.488
SU8-153-160D	10/17/2005	Thorium-230	2.8	1.420	0.050			1465104.754	598406.488
SU8-153-160D	10/17/2005	Thorium-228	2.6	0.780	0.080			1465104.754	598406.488
SU8-153-160	10/17/2005	Thorium-228	2.6	0.640	0.070			1465104.754	598406.488
SU8-153-160D	10/17/2005	Plutonium-239/240	62	0.044	0.044	U	UJ	1465104.754	598406.488
SU8-153-160	10/17/2005	Plutonium-239/240	62	0.030	0.030	U	U	1465104.754	598406.488

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU8-153-160D	10/17/2005	Plutonium-238	55	0.250	0.060		J	1465104.754	598406.488
SU8-153-160	10/17/2005	Plutonium-238	55	0.200	0.060		J	1465104.754	598406.488
SU9-153-161	02/07/2006	Thorium-232	2.1	1.080	0.020			1465119.414	598378.844
SU9-153-161	02/07/2006	Thorium-230	2.8	1.400	0.040		J	1465119.414	598378.844
SU9-153-161	02/07/2006	Thorium-228	2.6	1.190	0.040			1465119.414	598378.844
SU9-153-161	02/07/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1465119.414	598378.844
SU9-153-161	02/07/2006	Plutonium-238	55	0.028	0.028	U	UJ	1465119.414	598378.844
SU9-153-162	02/07/2006	Thorium-232	2.1	1.250	0.040			1465134.414	598378.844
SU9-153-162	02/07/2006	Thorium-230	2.8	1.210	0.020		J	1465134.414	598378.844
SU9-153-162	02/07/2006	Thorium-228	2.6	1.220	0.040			1465134.414	598378.844
SU9-153-162	02/07/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1465134.414	598378.844
SU9-153-162	02/07/2006	Plutonium-238	55	0.040	0.040	U	UJ	1465134.414	598378.844
SU9-153-163	02/07/2006	Thorium-232	2.1	1.180	0.050			1465126.914	598391.834
SU9-153-163	02/07/2006	Thorium-230	2.8	0.960	0.030		J	1465126.914	598391.834
SU9-153-163	02/07/2006	Thorium-228	2.6	1.080	0.090			1465126.914	598391.834
SU9-153-163	02/07/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1465126.914	598391.834
SU9-153-163	02/07/2006	Plutonium-238	55	0.021	0.021	U	UJ	1465126.914	598391.834
SU9-153-164	02/07/2006	Thorium-232	2.1	1.310	0.060			1465141.914	598391.834
SU9-153-164	02/07/2006	Thorium-230	2.8	0.800	0.060		J	1465141.914	598391.834
SU9-153-164	02/07/2006	Thorium-228	2.6	1.040	0.080			1465141.914	598391.834
SU9-153-164	02/07/2006	Plutonium-239/240	62	0.010	0.010	U	UJ	1465141.914	598391.834
SU9-153-164	02/07/2006	Plutonium-238	55	0.024	0.024	U	UJ	1465141.914	598391.834
SU9-153-165	02/07/2006	Thorium-232	2.1	1.360	0.060			1465134.414	598404.824
SU8-153-160D	02/07/2006	Thorium-232	2.1	1.230	0.040			1465134.414	598404.824
SU9-153-165	02/07/2006	Thorium-230	2.8	1.110	0.060		J	1465134.414	598404.824
SU8-153-160D	02/07/2006	Thorium-230	2.8	0.850	0.040		J	1465134.414	598404.824
SU9-153-165	02/07/2006	Thorium-228	2.6	1.590	0.070			1465134.414	598404.824
SU8-153-160D	02/07/2006	Thorium-228	2.6	1.210	0.060			1465134.414	598404.824
SU8-153-160D	02/07/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1465134.414	598404.824
SU9-153-165	02/07/2006	Plutonium-239/240	62	0.016	0.016	U	UJ	1465134.414	598404.824
SU9-153-165	02/07/2006	Plutonium-238	55	0.034	0.034	U	UJ	1465134.414	598404.824
SU8-153-160D	02/07/2006	Plutonium-238	55	0.024	0.024	U	UJ	1465134.414	598404.824
SU9-153-166	02/07/2006	Thorium-232	2.1	1.140	0.060			1465149.414	598404.824
SU9-153-166	02/07/2006	Thorium-230	2.8	1.060	0.060		J	1465149.414	598404.824
SU9-153-166	02/07/2006	Thorium-228	2.6	1.220	0.060			1465149.414	598404.824
SU9-153-166	02/07/2006	Plutonium-239/240	62	0.016	0.016	U	UJ	1465149.414	598404.824
SU9-153-166	02/07/2006	Plutonium-238	55	0.019	0.019	U	UJ	1465149.414	598404.824
SU9-153-167	10/20/2005	Thorium-232	2.1	0.930	0.030			1465164.414	598404.824
SU9-153-167	10/20/2005	Thorium-230	2.8	1.070	0.040			1465164.414	598404.824
SU9-153-167	10/20/2005	Thorium-228	2.6	1.100	0.060			1465164.414	598404.824
SU9-153-167	10/20/2005	Plutonium-239/240	62	0.058	0.058	U	UJ	1465164.414	598404.824
SU9-153-167	10/20/2005	Plutonium-238	55	0.049	0.049	U	UJ	1465164.414	598404.824
SU9-153-168	10/20/2005	Thorium-232	2.1	1.130	0.060			1465156.914	598417.815
SU9-153-168	10/20/2005	Thorium-230	2.8	1.070	0.050			1465156.914	598417.815
SU9-153-168	10/20/2005	Thorium-228	2.6	1.020	0.080			1465156.914	598417.815
SU9-153-168	10/20/2005	Plutonium-239/240	62	0.028	0.028	U	UJ	1465156.914	598417.815
SU9-153-168	10/20/2005	Plutonium-238	55	0.051	0.051	U	UJ	1465156.914	598417.815
SU9-153-169	10/20/2005	Thorium-232	2.1	1.090	0.060			1465171.914	598417.815
SU9-153-169	10/20/2005	Thorium-230	2.8	1.010	0.050			1465171.914	598417.815
SU9-153-169	10/20/2005	Thorium-228	2.6	1.030	0.080			1465171.914	598417.815
SU9-153-169	10/20/2005	Plutonium-239/240	62	0.025	0.025	U	UJ	1465171.914	598417.815
SU9-153-169	10/20/2005	Plutonium-238	55	0.058	0.058	U	UJ	1465171.914	598417.815
SU9-153-170	10/20/2005	Thorium-232	2.1	1.220	0.050			1465186.914	598417.815
SU9-153-170	10/20/2005	Thorium-230	2.8	0.990	0.040			1465186.914	598417.815
SU9-153-170	10/20/2005	Thorium-228	2.6	1.400	0.060			1465186.914	598417.815
SU9-153-170	10/20/2005	Plutonium-239/240	62	0.027	0.027	U	UJ	1465186.914	598417.815
SU9-153-170	10/20/2005	Plutonium-238	55	0.054	0.054	U	UJ	1465186.914	598417.815
SU9-153-171	10/20/2005	Thorium-232	2.1	1.030	0.040			1465149.702	598428.324
SU9-153-171	10/20/2005	Thorium-230	2.8	0.940	0.030			1465149.702	598428.324
SU9-153-171	10/20/2005	Thorium-228	2.6	1.010	0.040			1465149.702	598428.324
SU9-153-171	10/20/2005	Plutonium-239/240	62	0.028	0.028	U	UJ	1465149.702	598428.324
SU9-153-171	10/20/2005	Plutonium-238	55	0.066	0.066	U	UJ	1465149.702	598428.324
SU9-153-172	10/20/2005	Thorium-232	2.1	1.340	0.040			1465164.702	598428.324
SU9-153-172	10/20/2005	Thorium-230	2.8	0.960	0.050			1465164.702	598428.324
SU9-153-172	10/20/2005	Thorium-228	2.6	1.150	0.060			1465164.702	598428.324
SU9-153-172	10/20/2005	Plutonium-239/240	62	0.041	0.041	U	UJ	1465164.702	598428.324
SU9-153-172	10/20/2005	Plutonium-238	55	0.060	0.060	U	UJ	1465164.702	598428.324
SU9-153-173	10/20/2005	Thorium-232	2.1	1.370	0.050			1465179.702	598428.324

Table 1: Offsite Verification Results

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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU9-153-173	10/20/2005	Thorium-230	2.8	1.510	0.050			1465179.702	598428.324
SU9-153-173	10/20/2005	Thorium-228	2.6	1.380	0.050			1465179.702	598428.324
SU9-153-173	10/20/2005	Plutonium-239/240	62	0.047	0.047	U	UJ	1465179.702	598428.324
SU9-153-173	10/20/2005	Plutonium-238	55	0.063	0.063	U	UJ	1465179.702	598428.324
SU9-153-174	10/20/2005	Thorium-232	2.1	1.250	0.030			1465157.202	598441.314
SU9-153-174	10/20/2005	Thorium-230	2.8	1.350	0.050			1465157.202	598441.314
SU9-153-174	10/20/2005	Thorium-228	2.6	1.240	0.060			1465157.202	598441.314
SU9-153-174	10/20/2005	Plutonium-239/240	62	0.043	0.043	U	UJ	1465157.202	598441.314
SU9-153-174	10/20/2005	Plutonium-238	55	0.062	0.062	U	UJ	1465157.202	598441.314
SU9-153-175	10/20/2005	Thorium-232	2.1	1.000	0.040			1465172.202	598441.314
SU9-153-175	10/20/2005	Thorium-230	2.8	1.160	0.040			1465172.202	598441.314
SU9-153-175	10/20/2005	Thorium-228	2.6	0.960	0.060			1465172.202	598441.314
SU9-153-175	10/20/2005	Plutonium-239/240	62	0.054	0.054	U	UJ	1465172.202	598441.314
SU9-153-175	10/20/2005	Plutonium-238	55	0.064	0.064	U	UJ	1465172.202	598441.314
SU9-153-176	10/20/2005	Thorium-232	2.1	1.250	0.080			1465164.702	598454.305
SU9-153-176	10/20/2005	Thorium-230	2.8	1.220	0.080			1465164.702	598454.305
SU9-153-176	10/20/2005	Thorium-228	2.6	1.220	0.090			1465164.702	598454.305
SU9-153-176	10/20/2005	Plutonium-239/240	62	0.045	0.045	U	UJ	1465164.702	598454.305
SU9-153-176	10/20/2005	Plutonium-238	55	0.075	0.075	U	UJ	1465164.702	598454.305
SU9-153-177	10/20/2005	Thorium-232	2.1	1.170	0.060			1465179.702	598454.305
SU9-153-177	10/20/2005	Thorium-230	2.8	1.500	0.050			1465179.702	598454.305
SU9-153-177	10/20/2005	Thorium-228	2.6	1.200	0.080			1465179.702	598454.305
SU9-153-177	10/20/2005	Plutonium-239/240	62	0.064	0.064	U	UJ	1465179.702	598454.305
SU9-153-177	10/20/2005	Plutonium-238	55	0.054	0.054	U	UJ	1465179.702	598454.305
SU9-153-178	10/20/2005	Thorium-232	2.1	0.880	0.050			1465172.202	598467.295
SU9-153-178	10/20/2005	Thorium-230	2.8	2.380	0.030			1465172.202	598467.295
SU9-153-178	10/20/2005	Thorium-228	2.6	0.750	0.060			1465172.202	598467.295
SU9-153-178	10/20/2005	Plutonium-239/240	62	0.030	0.030	U	U	1465172.202	598467.295
SU9-153-178	10/20/2005	Plutonium-238	55	0.051	0.051	U	UJ	1465172.202	598467.295
SU9-153-179	10/20/2005	Thorium-232	2.1	1.050	0.030			1465187.202	598467.295
SU9-153-179	10/20/2005	Thorium-230	2.8	1.090	0.060			1465187.202	598467.295
SU9-153-179	10/20/2005	Thorium-228	2.6	0.720	0.090			1465187.202	598467.295
SU9-153-179	10/20/2005	Plutonium-239/240	62	0.040	0.040	U	UJ	1465187.202	598467.295
SU9-153-179	10/20/2005	Plutonium-238	55	0.040	0.040	U	UJ	1465187.202	598467.295
SU8-153-180	10/18/2005	Thorium-232	2.1	0.970	0.030			1465059.058	598415.372
SU8-153-180	**10/18/2005**	**Thorium-230**	**2.8**	**3.650**	**0.050**			1465059.058	598415.372
SU8-153-180	10/18/2005	Thorium-228	2.6	1.010	0.060			1465059.058	598415.372
SU8-153-180	10/18/2005	Plutonium-239/240	62	0.041	0.041	U	UJ	1465059.058	598415.372
SU8-153-180	10/18/2005	Plutonium-238	55	0.174	0.055		J	1465059.058	598415.372
SU8-153-181	10/18/2005	Thorium-232	2.1	0.860	0.050			1465044.447	598441.379
SU8-153-181	10/18/2005	Thorium-230	2.8	2.790	0.060			1465044.447	598441.379
SU8-153-181	10/18/2005	Thorium-228	2.6	0.960	0.070			1465044.447	598441.379
SU8-153-181	10/18/2005	Plutonium-239/240	62	0.040	0.040	U	UJ	1465044.447	598441.379
SU8-153-181	10/18/2005	Plutonium-238	55	0.107	0.050		J	1465044.447	598441.379
SU8-153-182	10/18/2005	Thorium-232	2.1	0.810	0.060			1465047.278	598429.189
SU8-153-182	10/18/2005	Thorium-230	2.8	1.980	0.060			1465047.278	598429.189
SU8-153-182	10/18/2005	Thorium-228	2.6	0.610	0.050			1465047.278	598429.189
SU8-153-182	10/18/2005	Plutonium-239/240	62	0.025	0.025	U	UJ	1465047.278	598429.189
SU8-153-182	10/18/2005	Plutonium-238	55	0.270	0.040		J	1465047.278	598429.189
SU8-153-183	10/18/2005	Thorium-232	2.1	0.790	0.050			1465052.324	598438.255
SU8-153-183	10/18/2005	Thorium-230	2.8	2.000	0.050			1465052.324	598438.255
SU8-153-183	10/18/2005	Thorium-228	2.6	0.930	0.070			1465052.324	598438.255
SU8-153-183	10/18/2005	Plutonium-239/240	62	0.029	0.029	U	UJ	1465052.324	598438.255
SU8-153-183	10/18/2005	Plutonium-238	55	0.061	0.045	J	J	1465052.324	598438.255
SU8-153-184	10/18/2005	Thorium-232	2.1	0.810	0.070			1465048.765	598445.363
SU8-153-184	10/18/2005	Thorium-230	2.8	2.520	0.060			1465048.765	598445.363
SU8-153-184	10/18/2005	Thorium-228	2.6	0.990	0.100			1465048.765	598445.363
SU8-153-184	10/18/2005	Plutonium-239/240	62	0.060	0.060	U	UJ	1465048.765	598445.363
SU8-153-184	10/18/2005	Plutonium-238	55	0.064	0.064	U	UJ	1465048.765	598445.363
SU8-153-185	10/18/2005	Thorium-232	2.1	0.810	0.050			1465054.530	598426.412
SU8-153-185	10/18/2005	Thorium-230	2.8	2.080	0.040			1465054.530	598426.412
SU8-153-185	10/18/2005	Thorium-228	2.6	0.910	0.060			1465054.530	598426.412
SU8-153-185	10/18/2005	Plutonium-239/240	62	0.052	0.052	U	UJ	1465054.530	598426.412
SU8-153-185	10/18/2005	Plutonium-238	55	0.390	0.060		J	1465054.530	598426.412
SU10-(79)-153-186	10/17/2005	Thorium-232	2.1	0.185	0.049			1464873.706	598391.341
SU10-(79)-153-186	10/17/2005	Thorium-230	2.8	1.340	0.050			1464873.706	598391.341
SU10-(79)-153-186	10/17/2005	Thorium-228	2.6	0.240	0.050			1464873.706	598391.341
SU10-(79)-153-187	10/17/2005	Thorium-232	2.1	0.830	0.030			1464866.206	598404.332

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Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU10-(79)-153-187	10/17/2005	Thorium-230	2.8	2.420	0.030			1464866.206	598404.332
SU10-(79)-153-187	10/17/2005	Thorium-228	2.6	0.920	0.060			1464866.206	598404.332
SU3-153-188	02/06/2006	Thorium-232	2.1	0.350	0.020			1464737.628	598378.031
SU3-153-188	02/06/2006	Thorium-230	2.8	1.090	0.040		J	1464737.628	598378.031
SU3-153-188	02/06/2006	Thorium-228	2.6	0.400	0.040			1464737.628	598378.031
SU3-153-188	02/06/2006	Plutonium-239/240	62	0.024	0.024	U	UJ	1464737.628	598378.031
SU3-153-188	02/06/2006	Plutonium-238	55	0.100	0.032	J	J	1464737.628	598378.031
SU15-153-189	02/06/2006	Thorium-232	2.1	0.730	0.030			1464752.588	598378.031
SU15-153-189	02/06/2006	Thorium-230	2.8	1.060	0.020		J	1464752.588	598378.031
SU15-153-189	02/06/2006	Thorium-228	2.6	0.810	0.050			1464752.588	598378.031
SU15-153-189	02/06/2006	Thallium-208	0.498	0.305	0.064			1464752.588	598378.031
SU15-153-189	02/06/2006	Radium-228	2.1	0.690	0.290			1464752.588	598378.031
SU15-153-189	02/06/2006	Radium-226	2.9	0.570	0.150	J	J	1464752.588	598378.031
SU15-153-189	02/06/2006	Protactinium-231	4	1.600	1.600	U	U	1464752.588	598378.031
SU15-153-189	02/06/2006	Potassium-40	47.8	20.500	0.600			1464752.588	598378.031
SU15-153-189	02/06/2006	Lead-214	8.9	0.720	0.120			1464752.588	598378.031
SU15-153-189	02/06/2006	Lead-212	16.6	0.690	0.100			1464752.588	598378.031
SU15-153-189	02/06/2006	Lead-210	7.4	2.000	2.000	U	U	1464752.588	598378.031
SU15-153-189	02/06/2006	Cobalt-60	0.7	0.075	0.075	U	UJ	1464752.588	598378.031
SU15-153-189	02/06/2006	Cesium-137	3.8	0.077	0.077	U	UJ	1464752.588	598378.031
SU15-153-189	02/06/2006	Bismuth-214	1.17	0.570	0.150			1464752.588	598378.031
SU15-153-189	02/06/2006	Bismuth-210M	8.3	0.082	0.082	U	UJ	1464752.588	598378.031
SU15-153-189	02/06/2006	Bismuth-207	1.2	0.060	0.060	U	UJ	1464752.588	598378.031
SU15-153-189	02/06/2006	Americium-241	63	0.150	0.150	U	U	1464752.588	598378.031
SU15-153-189	02/06/2006	Actinium-228	1.93	0.690	0.290			1464752.588	598378.031
SU15-153-189	02/06/2006	Actinium-227	4.6	1.090	0.490	J	J	1464752.588	598378.031
SU15-153-190	02/06/2006	Thorium-232	2.1	1.080	0.030			1464767.680	598378.031
SU15-153-190	02/06/2006	Thorium-230	2.8	0.980	0.030		J	1464767.680	598378.031
SU15-153-190	02/06/2006	Thorium-228	2.6	1.120	0.050			1464767.680	598378.031
SU15-153-190	02/06/2006	Thallium-208	0.498	0.500	0.070			1464767.680	598378.031
SU15-153-190	02/06/2006	Radium-228	2.1	1.590	0.320			1464767.680	598378.031
SU15-153-190	02/06/2006	Radium-226	2.9	0.980	0.150	J	J	1464767.680	598378.031
SU15-153-190	02/06/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464767.680	598378.031
SU15-153-190	02/06/2006	Potassium-40	47.8	41.800	0.700			1464767.680	598378.031
SU15-153-190	02/06/2006	Lead-214	8.9	1.090	0.130			1464767.680	598378.031
SU15-153-190	02/06/2006	Lead-212	16.6	1.430	0.100			1464767.680	598378.031
SU15-153-190	02/06/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464767.680	598378.031
SU15-153-190	02/06/2006	Cobalt-60	0.7	0.092	0.092	U	UJ	1464767.680	598378.031
SU15-153-190	02/06/2006	Cesium-137	3.8	0.093	0.093	U	UJ	1464767.680	598378.031
SU15-153-190	02/06/2006	Bismuth-214	1.17	0.980	0.150			1464767.680	598378.031
SU15-153-190	02/06/2006	Bismuth-210M	8.3	0.088	0.088	U	U	1464767.680	598378.031
SU15-153-190	02/06/2006	Bismuth-207	1.2	0.069	0.069	U	UJ	1464767.680	598378.031
SU15-153-190	02/06/2006	Americium-241	63	0.170	0.170	U	UJ	1464767.680	598378.031
SU15-153-190	02/06/2006	Actinium-228	1.93	1.590	0.320			1464767.680	598378.031
SU15-153-190	02/06/2006	Actinium-227	4.6	2.320	0.630			1464767.680	598378.031
SU15-153-191	02/06/2006	Thorium-232	2.1	1.220	0.020			1464782.641	598378.031
SU15-153-191	02/06/2006	Thorium-230	2.8	2.050	0.020		J	1464782.641	598378.031
SU15-153-191	02/06/2006	Thorium-228	2.6	1.140	0.010			1464782.641	598378.031
SU15-153-191	02/06/2006	Thallium-208	0.498	0.430	0.080			1464782.641	598378.031
SU15-153-191	02/06/2006	Radium-228	2.1	1.100	0.320			1464782.641	598378.031
SU15-153-191	02/06/2006	Radium-226	2.9	1.020	0.140	J	J	1464782.641	598378.031
SU15-153-191	02/06/2006	Protactinium-231	4	1.700	1.700	U	U	1464782.641	598378.031
SU15-153-191	02/06/2006	Potassium-40	47.8	35.300	0.500			1464782.641	598378.031
SU15-153-191	02/06/2006	Lead-214	8.9	0.920	0.140			1464782.641	598378.031
SU15-153-191	02/06/2006	Lead-212	16.6	1.200	0.100			1464782.641	598378.031
SU15-153-191	02/06/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464782.641	598378.031
SU15-153-191	02/06/2006	Cobalt-60	0.7	0.110	0.110	U	UJ	1464782.641	598378.031
SU15-153-191	02/06/2006	Cesium-137	3.8	0.095	0.095	U	UJ	1464782.641	598378.031
SU15-153-191	02/06/2006	Bismuth-214	1.17	1.020	0.140			1464782.641	598378.031
SU15-153-191	02/06/2006	Bismuth-212	9.87	2.040	1.000			1464782.641	598378.031
SU15-153-191	02/06/2006	Bismuth-210M	8.3	0.082	0.082	U	U	1464782.641	598378.031
SU15-153-191	02/06/2006	Bismuth-207	1.2	0.074	0.074	U	UJ	1464782.641	598378.031
SU15-153-191	02/06/2006	Americium-241	63	0.170	0.170	U	UJ	1464782.641	598378.031
SU15-153-191	02/06/2006	Actinium-228	1.93	1.100	0.320			1464782.641	598378.031
SU15-153-191	02/06/2006	Actinium-227	4.6	0.410	0.410	U	UJ	1464782.641	598378.031
SU15-153-192	02/06/2006	Thorium-232	2.1	1.210	0.030			1464797.667	598378.031
SU15-153-192	02/06/2006	Thorium-230	2.8	1.760	0.010		J	1464797.667	598378.031
SU15-153-192	02/06/2006	Thorium-228	2.6	1.190	0.040			1464797.667	598378.031

Table 1: Offsite Verification Results

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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU15-153-192	02/06/2006	Thallium-208	0.498	0.450	0.080			1464797.667	598378.031
SU15-153-192	02/06/2006	Radium-228	2.1	1.590	0.300			1464797.667	598378.031
SU15-153-192	02/06/2006	Radium-226	2.9	0.720	0.340	J	J	1464797.667	598378.031
SU15-153-192	02/06/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Potassium-40	47.8	41.100	0.700			1464797.667	598378.031
SU15-153-192	02/06/2006	Lead-214	8.9	0.960	0.140			1464797.667	598378.031
SU15-153-192	02/06/2006	Lead-212	16.6	1.510	0.120			1464797.667	598378.031
SU15-153-192	02/06/2006	Lead-210	7.4	2.000	2.000	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Cobalt-60	0.7	0.100	0.100	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Cesium-137	3.8	0.100	0.100	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Bismuth-212	9.87	2.090	1.100			1464797.667	598378.031
SU15-153-192	02/06/2006	Bismuth-210M	8.3	0.097	0.097	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Bismuth-207	1.2	0.074	0.074	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Americium-241	63	0.160	0.160	U	UJ	1464797.667	598378.031
SU15-153-192	02/06/2006	Actinium-228	1.93	1.590	0.300			1464797.667	598378.031
SU15-153-192	02/06/2006	Actinium-227	4.6	0.390	0.390	U	UJ	1464797.667	598378.031
SU15-153-193	02/06/2006	Thorium-232	2.1	1.500	0.030			1464838.547	598470.708
SU15-153-193	02/06/2006	Thorium-230	2.8	1.090	0.050		J	1464838.547	598470.708
SU15-153-193	02/06/2006	Thorium-228	2.6	1.330	0.070			1464838.547	598470.708
SU15-153-193	02/06/2006	Thallium-208	0.498	0.520	0.090			1464838.547	598470.708
SU15-153-193	02/06/2006	Radium-228	2.1	1.080	0.390			1464838.547	598470.708
SU15-153-193	02/06/2006	Radium-226	2.9	1.000	0.180	J	J	1464838.547	598470.708
SU15-153-193	02/06/2006	Protactinium-231	4	1.800	1.800	U	U	1464838.547	598470.708
SU15-153-193	02/06/2006	Potassium-40	47.8	43.900	0.900			1464838.547	598470.708
SU15-153-193	02/06/2006	Lead-214	8.9	0.980	0.150			1464838.547	598470.708
SU15-153-193	02/06/2006	Lead-212	16.6	1.540	0.120			1464838.547	598470.708
SU15-153-193	02/06/2006	Lead-210	7.4	2.400	2.400	U	UJ	1464838.547	598470.708
SU15-153-193	02/06/2006	Cobalt-60	0.7	0.099	0.099	U	UJ	1464838.547	598470.708
SU15-153-193	02/06/2006	Cesium-137	3.8	0.091	0.091	U	UJ	1464838.547	598470.708
SU15-153-193	02/06/2006	Bismuth-214	1.17	1.000	0.180			1464838.547	598470.708
SU15-153-193	02/06/2006	Bismuth-212	9.87	2.400	1.300			1464838.547	598470.708
SU15-153-193	02/06/2006	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464838.547	598470.708
SU15-153-193	02/06/2006	Bismuth-207	1.2	0.087	0.087	U	UJ	1464838.547	598470.708
SU15-153-193	02/06/2006	Americium-241	63	0.180	0.180	U	UJ	1464838.547	598470.708
SU15-153-193	02/06/2006	Actinium-228	1.93	1.080	0.390			1464838.547	598470.708
SU15-153-193	02/06/2006	Actinium-227	4.6	0.470	0.470	U	U	1464838.547	598470.708
SU15-153-194	02/06/2006	Thorium-232	2.1	0.910	0.020			1464853.547	598470.708
SU15-153-194	02/06/2006	Thorium-230	2.8	0.790	0.020		J	1464853.547	598470.708
SU15-153-194	02/06/2006	Thorium-228	2.6	0.780	0.040			1464853.547	598470.708
SU15-153-194	02/06/2006	Thallium-208	0.498	0.290	0.080			1464853.547	598470.708
SU15-153-194	02/06/2006	Radium-228	2.1	0.530	0.330			1464853.547	598470.708
SU15-153-194	02/06/2006	Radium-226	2.9	0.700	0.310	J	J	1464853.547	598470.708
SU15-153-194	02/06/2006	Protactinium-231	4	1.800	1.800	U	U	1464853.547	598470.708
SU15-153-194	02/06/2006	Potassium-40	47.8	26.100	0.800			1464853.547	598470.708
SU15-153-194	02/06/2006	Lead-214	8.9	0.720	0.140			1464853.547	598470.708
SU15-153-194	02/06/2006	Lead-212	16.6	0.770	0.130			1464853.547	598470.708
SU15-153-194	02/06/2006	Lead-210	7.4	2.200	2.200	U	UJ	1464853.547	598470.708
SU15-153-194	02/06/2006	Cobalt-60	0.7	0.094	0.094	U	UJ	1464853.547	598470.708
SU15-153-194	02/06/2006	Cesium-137	3.8	0.089	0.089	U	UJ	1464853.547	598470.708
SU15-153-194	02/06/2006	Bismuth-214	1.17	0.700	0.310			1464853.547	598470.708
SU15-153-194	02/06/2006	Bismuth-212	9.87	1.780	1.200			1464853.547	598470.708
SU15-153-194	02/06/2006	Bismuth-210M	8.3	0.090	0.090	U	UJ	1464853.547	598470.708
SU15-153-194	02/06/2006	Bismuth-207	1.2	0.068	0.068	U	UJ	1464853.547	598470.708
SU15-153-194	02/06/2006	Americium-241	63	0.180	0.180	U	U	1464853.547	598470.708
SU15-153-194	02/06/2006	Actinium-228	1.93	0.530	0.330			1464853.547	598470.708
SU15-153-194	02/06/2006	Actinium-227	4.6	1.600	0.610	J	J	1464853.547	598470.708
SU15-153-195	02/06/2006	Thorium-232	2.1	0.780	0.020			1464868.547	598470.708
SU15-153-195	02/06/2006	Thorium-230	2.8	0.840	0.020		J	1464868.547	598470.708
SU15-153-195	02/06/2006	Thorium-228	2.6	0.880	0.040			1464868.547	598470.708
SU15-153-195	02/06/2006	Thallium-208	0.498	0.219	0.091			1464868.547	598470.708
SU15-153-195	02/06/2006	Radium-228	2.1	1.040	0.230			1464868.547	598470.708
SU15-153-195	02/06/2006	Radium-226	2.9	0.520	0.370	J	J	1464868.547	598470.708
SU15-153-195	02/06/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464868.547	598470.708
SU15-153-195	02/06/2006	Potassium-40	47.8	19.600	0.900			1464868.547	598470.708
SU15-153-195	02/06/2006	Lead-214	8.9	0.510	0.140			1464868.547	598470.708
SU15-153-195	02/06/2006	Lead-212	16.6	0.680	0.130			1464868.547	598470.708
SU15-153-195	02/06/2006	Lead-210	7.4	2.100	2.100	U	UJ	1464868.547	598470.708
SU15-153-195	02/06/2006	Cobalt-60	0.7	0.150	0.150	U	UJ	1464868.547	598470.708

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Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU15-153-195	02/06/2006	Cesium-137	3.8	0.100	0.100	U	UJ	1464868.547	598470.708
SU15-153-195	02/06/2006	Bismuth-210M	8.3	0.110	0.110	U	UJ	1464868.547	598470.708
SU15-153-195	02/06/2006	Bismuth-207	1.2	0.084	0.084	U	UJ	1464868.547	598470.708
SU15-153-195	02/06/2006	Americium-241	63	0.170	0.170	U	UJ	1464868.547	598470.708
SU15-153-195	02/06/2006	Actinium-228	1.93	1.040	0.230			1464868.547	598470.708
SU15-153-195	02/06/2006	Actinium-227	4.6	0.380	0.380	U	U	1464868.547	598470.708
SU15-153-196	02/07/2006	Thorium-232	2.1	1.110	0.030			1464831.047	598483.698
SU15-153-196	02/07/2006	Thorium-230	2.8	1.060	0.010		J	1464831.047	598483.698
SU15-153-196	02/07/2006	Thorium-228	2.6	0.970	0.040			1464831.047	598483.698
SU15-153-196	02/07/2006	Thallium-208	0.498	0.310	0.090			1464831.047	598483.698
SU15-153-196	02/07/2006	Radium-228	2.1	0.710	0.300			1464831.047	598483.698
SU15-153-196	02/07/2006	Radium-226	2.9	0.710	0.150	J	J	1464831.047	598483.698
SU15-153-196	02/07/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464831.047	598483.698
SU15-153-196	02/07/2006	Potassium-40	47.8	31.400	0.900			1464831.047	598483.698
SU15-153-196	02/07/2006	Lead-214	8.9	0.780	0.140			1464831.047	598483.698
SU15-153-196	02/07/2006	Lead-212	16.6	0.880	0.130			1464831.047	598483.698
SU15-153-196	02/07/2006	Lead-210	7.4	2.400	2.400	U	UJ	1464831.047	598483.698
SU15-153-196	02/07/2006	Cobalt-60	0.7	0.096	0.096	U	UJ	1464831.047	598483.698
SU15-153-196	02/07/2006	Cesium-137	3.8	0.094	0.094	U	U	1464831.047	598483.698
SU15-153-196	02/07/2006	Bismuth-214	1.17	0.710	0.150			1464831.047	598483.698
SU15-153-196	02/07/2006	Bismuth-212	9.87	1.200	1.200			1464831.047	598483.698
SU15-153-196	02/07/2006	Bismuth-210M	8.3	0.093	0.093	U	UJ	1464831.047	598483.698
SU15-153-196	02/07/2006	Bismuth-207	1.2	0.071	0.071	U	UJ	1464831.047	598483.698
SU15-153-196	02/07/2006	Americium-241	63	0.180	0.180	U	U	1464831.047	598483.698
SU15-153-196	02/07/2006	Actinium-228	1.93	0.710	0.300			1464831.047	598483.698
SU15-153-196	02/07/2006	Actinium-227	4.6	1.710	0.650	J	J	1464831.047	598483.698
SU15-153-197	02/07/2006	Thorium-232	2.1	1.050	0.020			1464846.047	598483.698
SU15-153-197	02/07/2006	Thorium-230	2.8	0.840	0.040		J	1464846.047	598483.698
SU15-153-197	02/07/2006	Thorium-228	2.6	1.140	0.050			1464846.047	598483.698
SU15-153-197	02/07/2006	Thallium-208	0.498	0.208	0.080			1464846.047	598483.698
SU15-153-197	02/07/2006	Radium-228	2.1	0.860	0.620			1464846.047	598483.698
SU15-153-197	02/07/2006	Radium-226	2.9	0.580	0.350	J	J	1464846.047	598483.698
SU15-153-197	02/07/2006	Protactinium-231	4	1.800	1.800	U	UJ	1464846.047	598483.698
SU15-153-197	02/07/2006	Potassium-40	47.8	21.800	1.100			1464846.047	598483.698
SU15-153-197	02/07/2006	Lead-214	8.9	0.470	0.140			1464846.047	598483.698
SU15-153-197	02/07/2006	Lead-212	16.6	0.620	0.150			1464846.047	598483.698
SU15-153-197	02/07/2006	Lead-210	7.4	1.900	1.900	U	UJ	1464846.047	598483.698
SU15-153-197	02/07/2006	Cobalt-60	0.7	0.110	0.110	U	UJ	1464846.047	598483.698
SU15-153-197	02/07/2006	Cesium-137	3.8	0.140	0.140	U	U	1464846.047	598483.698
SU15-153-197	02/07/2006	Bismuth-210M	8.3	0.081	0.081	U	U	1464846.047	598483.698
SU15-153-197	02/07/2006	Bismuth-207	1.2	0.064	0.064	U	U	1464846.047	598483.698
SU15-153-197	02/07/2006	Americium-241	63	0.170	0.170	U	UJ	1464846.047	598483.698
SU15-153-197	02/07/2006	Actinium-227	4.6	0.430	0.430	U	UJ	1464846.047	598483.698
SU15-153-198	02/07/2006	Thorium-232	2.1	0.740	0.030			1464861.047	598483.698
SU15-153-198	02/07/2006	Thorium-230	2.8	0.720	0.030		J	1464861.047	598483.698
SU15-153-198	02/07/2006	Thorium-228	2.6	0.710	0.050			1464861.047	598483.698
SU15-153-198	02/07/2006	Thallium-208	0.498	0.308	0.077			1464861.047	598483.698
SU15-153-198	02/07/2006	Radium-228	2.1	0.930	0.300			1464861.047	598483.698
SU15-153-198	02/07/2006	Radium-226	2.9	0.550	0.150	J	J	1464861.047	598483.698
SU15-153-198	02/07/2006	Protactinium-231	4	1.600	1.600	U	UJ	1464861.047	598483.698
SU15-153-198	02/07/2006	Potassium-40	47.8	24.900	0.700			1464861.047	598483.698
SU15-153-198	02/07/2006	Lead-214	8.9	0.580	0.140			1464861.047	598483.698
SU15-153-198	02/07/2006	Lead-212	16.6	0.830	0.160			1464861.047	598483.698
SU15-153-198	02/07/2006	Lead-210	7.4	2.200	2.200	U	U	1464861.047	598483.698
SU15-153-198	02/07/2006	Cobalt-60	0.7	0.094	0.094	U	UJ	1464861.047	598483.698
SU15-153-198	02/07/2006	Cesium-137	3.8	0.097	0.097	U	U	1464861.047	598483.698
SU15-153-198	02/07/2006	Bismuth-214	1.17	0.550	0.150			1464861.047	598483.698
SU15-153-198	02/07/2006	Bismuth-210M	8.3	0.083	0.083	U	UJ	1464861.047	598483.698
SU15-153-198	02/07/2006	Bismuth-207	1.2	0.071	0.071	U	UJ	1464861.047	598483.698
SU15-153-198	02/07/2006	Americium-241	63	0.150	0.150	U	UJ	1464861.047	598483.698
SU15-153-198	02/07/2006	Actinium-228	1.93	0.930	0.300			1464861.047	598483.698
SU15-153-198	02/07/2006	Actinium-227	4.6	0.350	0.350	U	UJ	1464861.047	598483.698
SU16-153-199	02/07/2006	Thorium-232	2.1	1.060	0.030			1464876.047	598483.698
SU16-153-199	02/07/2006	Thorium-230	2.8	0.920	0.020		J	1464876.047	598483.698
SU16-153-199	02/07/2006	Thorium-228	2.6	0.970	0.030			1464876.047	598483.698
SU16-153-199	02/07/2006	Thallium-208	0.498	0.336	0.080			1464876.047	598483.698
SU16-153-199	02/07/2006	Radium-228	2.1	0.740	0.320			1464876.047	598483.698
SU16-153-199	02/07/2006	Radium-226	2.9	0.570	0.320	J	J	1464876.047	598483.698

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU16-153-199	02/07/2006	Protactinium-231	4	1.700	1.700	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Potassium-40	47.8	24.000	0.800			1464876.047	598483.698
SU16-153-199	02/07/2006	Lead-214	8.9	0.610	0.140			1464876.047	598483.698
SU16-153-199	02/07/2006	Lead-212	16.6	0.800	0.140			1464876.047	598483.698
SU16-153-199	02/07/2006	Lead-210	7.4	2.000	2.000	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Cobalt-60	0.7	0.097	0.097	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Cesium-137	3.8	0.100	0.100	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Bismuth-210M	8.3	0.082	0.082	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Bismuth-207	1.2	0.069	0.069	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Americium-241	63	0.140	0.140	U	UJ	1464876.047	598483.698
SU16-153-199	02/07/2006	Actinium-228	1.93	0.740	0.320			1464876.047	598483.698
SU16-153-199	02/07/2006	Actinium-227	4.6	0.390	0.390	U	UJ	1464876.047	598483.698
SU16-153-200	02/07/2006	Thorium-232	2.1	1.250	0.040			1464734.295	598439.771
SU16-153-200	02/07/2006	Thorium-230	2.8	0.970	0.070		J	1464734.295	598439.771
SU16-153-200	02/07/2006	Thorium-228	2.6	1.150	0.110			1464734.295	598439.771
SU16-153-200	02/07/2006	Plutonium-239/240	62	0.017	0.017	U	UJ	1464734.295	598439.771
SU16-153-200	02/07/2006	Plutonium-238	55	0.407	0.028		J	1464734.295	598439.771
SU16-153-201	02/06/2006	Thorium-232	2.1	1.210	0.010			1464749.295	598439.771
SU16-153-201	02/06/2006	Thorium-230	2.8	0.950	0.020			1464749.295	598439.771
SU16-153-201	02/06/2006	Thorium-228	2.6	1.290	0.040			1464749.295	598439.771
SU16-153-201	02/06/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1464749.295	598439.771
SU16-153-201	02/06/2006	Plutonium-238	55	0.950	0.030			1464749.295	598439.771
SU16-153-202	02/06/2006	Thorium-232	2.1	1.020	0.030			1464764.295	598439.771
SU16-153-202	02/06/2006	Thorium-230	2.8	1.600	0.030			1464764.295	598439.771
SU16-153-202	02/06/2006	Thorium-228	2.6	0.810	0.030			1464764.295	598439.771
SU16-153-202	02/06/2006	Plutonium-239/240	62	0.017	0.017	U	UJ	1464764.295	598439.771
SU16-153-202	02/06/2006	Plutonium-238	55	0.550	0.020			1464764.295	598439.771
SU16-153-203	02/06/2006	Thorium-232	2.1	0.690	0.010			1464794.295	598439.771
SU16-153-203	02/06/2006	Thorium-230	2.8	1.640	0.030			1464794.295	598439.771
SU16-153-203	02/06/2006	Thorium-228	2.6	0.690	0.040			1464794.295	598439.771
SU16-153-203	02/06/2006	Plutonium-239/240	62	0.017	0.017	U	UJ	1464794.295	598439.771
SU16-153-203	02/06/2006	Plutonium-238	55	0.038	0.028	J	J	1464794.295	598439.771
SU16-153-204	02/07/2006	Thorium-232	2.1	1.090	0.030			1464741.795	598452.761
SU16-153-204	02/07/2006	Thorium-230	2.8	0.990	0.030			1464741.795	598452.761
SU16-153-204	02/07/2006	Thorium-228	2.6	1.140	0.040			1464741.795	598452.761
SU16-153-204	02/07/2006	Plutonium-239/240	62	0.030	0.030	U	U	1464741.795	598452.761
SU16-153-204	02/07/2006	Plutonium-238	55	1.550	0.030			1464741.795	598452.761
SU16-153-205	02/06/2006	Thorium-232	2.1	0.940	0.020			1464756.795	598452.761
SU16-153-205	02/06/2006	Thorium-230	2.8	0.940	0.020			1464756.795	598452.761
SU16-153-205	02/06/2006	Thorium-228	2.6	1.100	0.040			1464756.795	598452.761
SU16-153-205	02/06/2006	Plutonium-239/240	62	0.018	0.018	U	UJ	1464756.795	598452.761
SU16-153-205	02/06/2006	Plutonium-238	55	0.365	0.023			1464756.795	598452.761
SU16-153-206	02/06/2006	Thorium-232	2.1	1.150	0.020			1464771.795	598452.761
SU16-153-206	02/06/2006	Thorium-230	2.8	1.070	0.030			1464771.795	598452.761
SU16-153-206	02/06/2006	Thorium-228	2.6	1.000	0.050			1464771.795	598452.761
SU16-153-206	02/06/2006	Plutonium-239/240	62	0.019	0.019	U	UJ	1464771.795	598452.761
SU16-153-206	02/06/2006	Plutonium-238	55	0.033	0.019	J	J	1464771.795	598452.761
SU16-153-207	02/07/2006	Thorium-232	2.1	1.240	0.020			1464734.295	598465.752
SU16-153-207	02/07/2006	Thorium-230	2.8	1.200	0.010			1464734.295	598465.752
SU16-153-207	02/07/2006	Thorium-228	2.6	1.290	0.050			1464734.295	598465.752
SU16-153-207	02/07/2006	Plutonium-239/240	62	0.026	0.026	U	UJ	1464734.295	598465.752
SU16-153-207	02/07/2006	Plutonium-238	55	0.439	0.032			1464734.295	598465.752
SU16-153-208	02/07/2006	Thorium-232	2.1	1.260	0.020			1464749.295	598465.752
SU16-153-208	02/07/2006	Thorium-230	2.8	1.170	0.030			1464749.295	598465.752
SU16-153-208	02/07/2006	Thorium-228	2.6	1.210	0.040			1464749.295	598465.752
SU16-153-208	02/07/2006	Plutonium-239/240	62	0.018	0.018	U	UJ	1464749.295	598465.752
SU16-153-208	02/07/2006	Plutonium-238	55	0.090	0.018	J	J	1464749.295	598465.752
SU16-153-209	02/06/2006	Thorium-232	2.1	1.170	0.030			1464764.295	598465.752
SU16-153-209	02/06/2006	Thorium-230	2.8	1.060	0.020			1464764.295	598465.752
SU16-153-209	02/06/2006	Thorium-228	2.6	1.220	0.030			1464764.295	598465.752
SU16-153-209	02/06/2006	Plutonium-239/240	62	0.016	0.016	U	UJ	1464764.295	598465.752
SU16-153-209	02/06/2006	Plutonium-238	55	0.026	0.026	U	UJ	1464764.295	598465.752
SU16-153-210	02/07/2006	Thorium-232	2.1	0.880	0.010			1464741.795	598478.742
SU16-153-210	02/07/2006	Thorium-230	2.8	0.740	0.030			1464741.795	598478.742
SU16-153-210	02/07/2006	Thorium-228	2.6	0.980	0.050			1464741.795	598478.742
SU16-153-210	02/07/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1464741.795	598478.742
SU16-153-210	02/07/2006	Plutonium-238	55	0.147	0.027			1464741.795	598478.742
SU16-153-211	02/07/2006	Thorium-232	2.1	0.720	0.040			1464756.795	598478.742

Table 1: Offsite Verification Results

(pCi/g unless otherwise specified)
(bold values are > CO < HS)

Location	Date	Analyte	CO	Result	DL	LQ	DQ	X Coord	Y Coord
SU16-153-211	02/07/2006	Thorium-230	2.8	1.180	0.060			1464756.795	598478.742
SU16-153-211	02/07/2006	Thorium-228	2.6	0.830	0.060			1464756.795	598478.742
SU16-153-211	02/07/2006	Plutonium-239/240	62	0.023	0.023	U	UJ	1464756.795	598478.742
SU16-153-211	02/07/2006	Plutonium-238	55	0.068	0.020	J	J	1464756.795	598478.742
SU16-153-212	02/07/2006	Thorium-232	2.1	1.190	0.030			1464734.295	598491.733
SU16-153-212	02/07/2006	Thorium-230	2.8	1.020	0.040			1464734.295	598491.733
SU16-153-212	02/07/2006	Thorium-228	2.6	1.390	0.040			1464734.295	598491.733
SU16-153-212	02/07/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1464734.295	598491.733
SU16-153-212	02/07/2006	Plutonium-238	55	0.093	0.018	J	J	1464734.295	598491.733
SU16-153-213	02/07/2006	Thorium-232	2.1	0.990	0.020			1464749.295	598491.733
SU16-153-213	02/07/2006	Thorium-230	2.8	0.780	0.020			1464749.295	598491.733
SU16-153-213	02/07/2006	Thorium-228	2.6	0.960	0.040			1464749.295	598491.733
SU16-153-213	02/07/2006	Plutonium-239/240	62	0.020	0.020	U	UJ	1464749.295	598491.733
SU16-153-213	02/07/2006	Plutonium-238	55	0.268	0.020			1464749.295	598491.733
SU16-153-214	02/06/2006	Thorium-232	2.1	0.610	0.030			1464779.295	598439.771
SU16-153-214	**02/06/2006**	**Thorium-230**	**2.8**	**3.080**	**0.030**			1464779.295	598439.771
SU16-153-214	02/06/2006	Thorium-228	2.6	0.610	0.040			1464779.295	598439.771
SU16-153-214	02/06/2006	Plutonium-239/240	62	0.018	0.018	U	UJ	1464779.295	598439.771
SU16-153-214	02/06/2006	Plutonium-238	55	0.333	0.031			1464779.295	598439.771
SU16-153-215	02/06/2006	Thorium-232	2.1	0.740	0.040			1464809.295	598439.771
SU16-153-215	02/06/2006	Thorium-230	2.8	1.580	0.030			1464809.295	598439.771
SU16-153-215	02/06/2006	Thorium-228	2.6	0.730	0.030			1464809.295	598439.771
SU16-153-215	02/06/2006	Plutonium-239/240	62	0.023	0.023	U	UJ	1464809.295	598439.771
SU16-153-215	02/06/2006	Plutonium-238	55	0.033	0.033	U	UJ	1464809.295	598439.771
SU3-153-216	02/06/2006	Thorium-232	2.1	0.400	0.030			1464752.080	598380.164
SU3-153-216	02/06/2006	Thorium-230	2.8	0.960	0.030		J	1464752.080	598380.164
SU3-153-216	02/06/2006	Thorium-228	2.6	0.470	0.040			1464752.080	598380.164
SU3-153-216	02/06/2006	Plutonium-239/240	62	0.019	0.019	U	UJ	1464752.080	598380.164
SU3-153-216	02/06/2006	Plutonium-238	55	0.248	0.026			1464752.080	598380.164
SU3-153-217	02/06/2006	Thorium-232	2.1	0.230	0.015			1464767.080	598380.164
SU3-153-217	02/06/2006	Thorium-230	2.8	0.650	0.030		J	1464767.080	598380.164
SU3-153-217	02/06/2006	Thorium-228	2.6	0.253	0.046			1464767.080	598380.164
SU3-153-217	02/06/2006	Plutonium-239/240	62	0.027	0.027	U	UJ	1464767.080	598380.164
SU3-153-217	02/06/2006	Plutonium-238	55	0.280	0.036			1464767.080	598380.164
SU3-153-218	02/06/2006	Thorium-232	2.1	0.303	0.036			1464782.080	598380.164
SU3-153-218	02/06/2006	Thorium-230	2.8	1.460	0.030		J	1464782.080	598380.164
SU3-153-218	02/06/2006	Thorium-228	2.6	0.380	0.033			1464782.080	598380.164
SU3-153-218	02/06/2006	Plutonium-239/240	62	0.021	0.021	U	UJ	1464782.080	598380.164
SU3-153-218	02/06/2006	Plutonium-238	55	0.850	0.030			1464782.080	598380.164
SU3-153-219	02/06/2006	Thorium-232	2.1	0.147	0.084			1464797.080	598380.164
SU3-153-219	02/06/2006	Thorium-230	2.8	0.680	0.060		J	1464797.080	598380.164
SU3-153-219	02/06/2006	Thorium-228	2.6	0.198	0.089			1464797.080	598380.164
SU3-153-219	02/06/2006	Plutonium-239/240	62	0.026	0.026	U	UJ	1464797.080	598380.164
SU3-153-219	02/06/2006	Plutonium-238	55	0.219	0.031			1464797.080	598380.164

CO: cleanup objective
DL: detection limit
DQ: data qualifier
LQ: lab qualifiier
U: not detected
J: estimated
D: duplicate
TPH: total petroleum hydrocarbon
na: not available

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APPENDIX C

POST-EX SUD EXCERPT & APPENDIX III

Survey Unit Design (SUD)

Project: PRSs 153, 154, 238, 240, 405; Buildings 23 and 125 Footprints
Review & Approval
Project Engineer: Denny Lammlein _____ 11 Aug 05
Reviewer: James Fontaine _____ 8/11/05
Reviewer: _____

Document	Title
Action Memo	*UGL Action Memorandum, Final, September 2003*
Action Memo	*Contingent Removal Action for Contaminated Soil – PRS 153, Final, June 2002*
Public Fact Sheet (PFS)	*PRS 154 & 238: Area 23 & Potential Hot Spot S1092, Final, October 2003*
PFS	*PRS 240: Potential Hot Spot Location S0472, Final, October 2003*
PFS	*PRS 405: Soil Contamination – Building 23, Final, March 2004*
RP	*UGLs Removal Plan, Final, April 2004*
WP	*Soil Removal, ELT-MND-105-00, April 2004*
VSAP	*Standard Verification Sampling & Analysis Plan, Final, August 2004*

O **Pre-Excavation** or √ **Post-Excavation**?

Summary of Changes (for Post-Excavation SUDs ONLY) (see following pages for details)	YES	NO
1. Did the COC(s) change?		X
2. Did the grid size or N change?	X	
3. Did the classification change?		X
4. Were bias/judgmental samples collected?	X	
5. Other significant change?	X	

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SUD Worksheet

Acronyms

AM	Action Memo
BGS	Below Ground Surface
COs	Cleanup Objectives
COCs	Contaminants of Concern
ELT	Earthline Technologies (Subcontractor for the UGL project)
FIDLER	Field Instrument for Detection of Low Energy Radiation
FT	Feet
FT/M	Feet per Minute
FSS	Final Status Survey
HH	HH Building (Hydrolysis House)
HW	Hot Waste
M^2	Square Meters
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
mCi	milli (10^{-3}) curies
MDC	Minimum Detectable Concentration
mL	Milliliter
MND	Mound
nCi/g	nano (10^{-9}) curies per gram
pCi/g	pico (10^{-12})curies per gram
QA/QC	Quality Assurance/Quality Control
PRS	Potential Release Site
R	R Building (Research)
RASS	Remedial Action Support Survey
RBGV	Risk-Based Guideline Value
SQ FT	Square Feet
SU	Survey Unit
SUD	Survey Unit Design
SW	SW Building (Special Works)
UGL	Underground Lines
VCP	Vitreous Clay Pipe
VSP	Visual Sample Plan
VSAP	Verification Sampling and Analysis Plan
WD	WD Building (Waste Disposal)
WDA	WDA Building (Waste Disposal Annex)
WP	Work Package

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Item 1	Summary of historic **information** relevant to SU: The Work Plan associated with this SUD addressed identified contamination areas with contaminants of concern (COCs) **above the cleanup objectives (COs)**. (Reference the WD/HH Hillside Anticipated Limits of Excavation Map, Figure 1, and PRS 240 Excavation Map, Figure 3.) The PRSs included within this SUD are in general proximity to each other on the hillside between the former locations of WD and HH Buildings in the center of the Mound plant. The UGL Action Memo and various Public Fact Sheets governing these PRSs generally identify leaks from an underground three-inch wastewater line that ran from HH to WD as the source of contamination. This line was removed in 1994, but the soil was not fully remediated. The Building 23 and Building 125 footprints are included within this SUD because of their geographical proximity to the PRSs within this SUD. The UGL Action Memo requires that the footprint soil undergo "confirmation" sampling. Once the prerequisite planning and required preparations are completed, the actual removals will be performed with periodic verification and backfilling as the removal proceeds. 100% FIDLER walkover surveys will be conducted to detect hot spots for the areas included within and adjacent to the ten SUs included in this SUD.
Item 2	Summary of historic **data** relevant to SU: **PRS 153**: Authorizing Document: Contingent Removal Action for Contaminated Soil, Final, June 2002. Contaminants include Pu238, Th230, and Th232. The depth of contamination varies from the surface to a maximum depth of about 15 feet below ground surface (bgs). Th 230 was added as a COC because of an historic sample result above CO. **PRS 154 and 238**: Authorizing Document: Public Fact Sheet, Final, October 2003. Contaminants include Actinium227, Ra226, Th230, Th232, and U238. The depth of contamination varies from the surface to a depth of about 12 feet bgs. PRS 154 has an added COC – Pu238 – because of an historic sample result above CO. **PRS 240**: Authorizing Document: Public Fact Sheet, Final, October 2003. Contaminants include Pu238, Ra226, Th232, and U238. The depth of contamination varies from about four feet to about 14 feet bgs. **PRS 405**: Authorizing Document: Public Fact Sheet, Final, March 2004. Contaminants include total petroleum hydrocarbons (TPH) – Cleanup Objective, 105ppm, Pu238, and Th232. This is a surface contamination PRS. **Building 23** was a Waste Material Storage Center. Authorizing Document: UGL Action Memo. This Building was removed in the spring of 2004. Per the UGL Action Memo, the footprint will undergo "confirmation" sampling only. COCs were determined by process knowledge and historical samples > COs. COCs are Pu238 and Th232. **Building 125** was the Alpha Treatment System (ATS) facility. Authorizing Document: UGL Action Memo. This building's footprint will also undergo "confirmation" sampling. NO COCs are associated with this footprint. Gamma spec analysis will be used to determine if any COCs are identified > COs. **Building 79** was a modular office trailer located east of the former buildings 23 and WD. After the building was removed and the pad demolished, several soil samples showed activity greater than cleanup objectives. Thus, Th230 was added as a COC for this footprint.

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Item 3a

COC	BASIS	CO	(pCi/g) HS	MAX	Offsite Analysis & Compendium Method: gamma (A-015)	Iso.Pu (A-012)	Iso Th (A-012)	Iso U (A-012)
Ac227	*PFS: PRSs 154 & 238*	4.6	13.61	104	X			
Bi207	*Historical Sample, north of PRS 153*	1.2	3.6	70	X			
Cs137	*Historical Sample, north of PRS 153*	3.8	10.62	200	X			
Co60	*Historical Sample, north of PRS 153*	0.7	2.1	800	X			
Pu238	*AM: CRA, PRS 153; Historical Sample, PRS 154; PFS: PRS 240; PFS PRS 405; Process Knowledge, Building 23*	55	165.13	7,694 (153)		X		
N/A	Building 125	TBD	TBD	TBD	X			
Ra226	*PFS: PRSs 154 & 238; PFS: PRS 240*	2.9	4.7	19.1 (154/ 238)	X			
Th230	*PFS: PRSs 154 & 238; Historic Sample, PRS 153(SU7); Historic Sample, Building 79*	2.8	4.6	1,020 (154/ 238)			X	
Th232	*AM: CRA, PRS 153; PFS: PRSs 154 & 238; PFS: PRS 240; PFS, PRS 405; Historical Sample, Building 23*	2.1	3.5	678 (153)			X	
U238	*PFS: PRSs 154 & 238; PFS: PRS 240*	2.2	4.2	12.84 (240)				X
Arsenic	*PFS, PRS 240*	28.5 mg/kg						
TPH	*PFS, PRS 405*	105 ppm						

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Analyses are to be performed per Mound Methods Compendium and COs (for surface samples/analysis i.e., bedrock, asphalt, concrete) as applicable. Compendium Method A-012 is Isotopic Uranium, Isotopic Plutonium, and Isotopic Thorium by Alpha Spectrometry and Compendium Method A-015 is Gamma Spectrometry. Surface samples/analysis are to be in accordance with MD-80036 OPs 10001, 10002, 30005, 30007, and 30040. Hard surfaces will be swiped and gross alpha and beta measurements will be performed and compared to the most restrictive COC in Mound 2000 Work Plan Appendix A Table 1 (NUREG 1.86 Regulatory Guide). If the location fails to meet the most restrictive criteria then it will be sent to alpha spec for determination of the COC so the applicable, instead of the most restrictive, criteria can be applied.

Changes if any, from PreEx SUD:

None

Item 3b	Chem basis for std dev, AM COCs/New COCs	Survey Unit #2 (PRS 405) was made a PRS due to the discovery of oil-contaminated soil during excavation for a potable water line in 1994. There is no known historic contamination event; however, the location was below a maintenance drain point of an overhead fuel oil transfer line. Quantitative laboratory analysis for petroleum hydrocarbons was not pursued, as the presence of fuel oil was accepted as obvious. TPH will be analyzed per EPA 80-15, and Mound Methods Compendium, A-023 TPH, Method 418.1. Arsenic (PRS 240) will be analyzed per Compendium Method A-005.

Item 4

Classify Areas & provide justification:

This SUD consists of eleven survey units. All are Class 1. See Survey Unit Map, Attachment A, Figure 2. SU10 includes the footprint of the former Building 79.

Selection	Class	Scan Coverage guidelines
X	1	100%
	2	10-90%
	3	Judgmental

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Changes if any, from Pre Ex SUD: This SUD now consists of 14 survey units. Four additional survey units were added to this Post Ex SUD. See Appendix II, PRS 153 Revised Survey Unit List and PRS 153 Survey Unit Design, Figure 1, for a comparison of the Pre Ex SUD versus the Post Ex Sud survey units.

Survey Units 5 and 6 were merged because of the respective excavations merged (the two SUs have the same COCs).

SU #12 was added because of a FIDLER hit at historical location SO406. (Reference: Pre Ex SUD, Figure 1: Anticipated Limits of Excavation, Notes.)

SU #13 was added because of excavation and remediation for historical sample MND17-2319. (Reference Pre Ex SUD, Figure 1.)

SU #14 was added per the note on the above referenced Figure 1, i. e., areas where FIDLER walkover surveys were accomplished but no detectable activity found. Thus, per the Pre Ex SUD, a surface sample will be collected at each historical location. See PRS 153 Survey Unit Design, Figure 1, Appendix II, points indicated by "S" – FIDLER Scan.

SU #15 was added because of excavation and remediation of the historical location SD01. (Reference Pre Ex SUD, Figure 1.)

All SUs (including the newly added SUs) are Class 1.

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Item		
5	Subdivide areas into SUs See Attachment A for Figures See Attachment B for Historical Sample Data < CO The data set is historical data without results that exceed COs in order to mimic the "as-left" condition. See Attachment C for MARSSIMS Survey Unit Spreadsheets	This SUD consists of eleven SUs (see attached Figure 2): These survey units were designed around historical data which included soil samples above cleanup objectives and the work plan's associated excavation maps (Figures 1 and 3). The excavation maps show dig areas isolated by geography or separate COCs. A 100% walkover survey will be conducted to identify localized hot spots. Several of the survey units are outside of the PRS boundaries. SU1 is located at borehole B-16 and will be excavated to a minimum of 8 feet. The COC was determined to be U-238 based on the historical sample >CO and is approximately 100 sq. ft. SU2 covers only PRS 405 and is approximately 80 sq. ft. COC: Total Petroleum Hydrocarbons (TPH). SU3 includes the former Building 23 footprint only, and is approximately 5,300 sq. ft. COCs: Pu238 & Th232. SU4 covers only PRS 240, and is approximately 850 sq. ft. COCs: Arsenic, Pu238, Ra226, Th232, and U238. SU5 includes the historic samples above cleanup objectives in PRS 154, the expected area of excavation, and is approximately 3,900 sq. ft. COCs: Ac227, Ra226, Th230, Th232, and U238. SU6 includes only PRS 238 and is approximately 70 sq. ft. COCs: Same as SU5. NOTE: PRS 153 was divided into 2 SU due to the addition of Th230 as a COC in the western half of PRS 153. SU7 is the western half of PRS 153 and is approximately 1,040 sq. ft. COCs: Pu238, Th230, and Th232. SU8 is the eastern half of PRS 153 and is approximately 420 sq. ft. COCs: Pu238 and Th232. SU9 is the location of 6 historical borehole samples >CO just east of PRS 153. They were grouped into this SU due to common history, physical location and similar history. The expected size of excavation is approximately 2,320 sq. ft. COCs: Same as SU7. SU10 covers the former Building 125 footprint and the former Building 79 footprint. The Survey Unit is approximately 2,960 sq. ft. No soil remediation is planned. COCs: Th230. SU11 covers an historical area north of PRS 153 that was listed in the original PRS 153 package (12/96). COCs: Co60, Cs137, and Bi207.

Changes, if any, from Pre-Ex SUD: Four survey units added to this SUD, with the total now 14 (5 and 6 combined).

Most of the survey units have grown in size from the areas provided in the Pre Ex SUD because of the chase of contamination and/or including hauler load-out areas. Actual Post Ex SUD survey unit areas are provided in Table 1, PRS 153 Revised (Comparison) Survey Unit List, Appendix II .

SU5 and SU6 have combined into one survey unit, because of the merging of their respective dig areas. The revised total area is 8,928 sq. ft. COCs remain the same.

SU10 is approximately 3125 sq. ft.

SU12 added. Covers the historical sample location, SO406, and covers approximately 79 sq. ft. COC is Th232.

SU13 added. Covers the historical sample MND17-2319, and covers approximately 1246 sq. ft. COC is Pu238.

SU14 added. This survey unit includes seven historical areas identified by a dashed line on Figure 1: Anticipated Limits of Excavation, Pre Ex SUD. Since no detectable contamination was found, one sample will be taken from each area and analyzed for the historical COC(s). Each area (two locations where historical samples are adjacent to each other were combined) is nominally 100 sq. ft. or approximately 500 sq. ft. total.

SU15 added. Covers the historical sample location SD01, and covers approximately 218 sq. ft. COC is Th230.

See Appendix II for Post Ex SUD figures, data, and spreadsheets.

Attachment A, Figure 2 is replaced by Appendix II, Figure 1.

Attachment B, WD/HH Hillside Historical Sample Data – Standard Deviations for COCs is replaced by Appendix II, RASS Sample Data.

Attachment C, WD/HH Hillside MARSSIM SURVEY UNIT SPREADSHEETS, is replaced by Appendix II, MARSSIM SURVEY UNIT Spreadsheets, Survey Units 1-15.

Note: Soil removals took place in SUs 1, 2, 4 through 9, 11 through 13, and 15. No soil removals took place in SUs 3, 10, and 14 (except for a shallow excavation to remove the historical result SCR207 within SU3.

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Item 6a

Calculations / Rad

1. Calculate the (s) for each COC listed above: See Attachment C.

2. Number of Samples (N): See Attachment C.

Spreadsheet-Calculated Numbers of Samples: SU1 - 9; SU2 – 9; SU3 – 9; SU4 – 12; SU5 – 12; SU6 – 12; SU7 – 10; SU8 – 9, and SU9 – 9; SU10 – 9: SU11 - 8.

SU1 Scanning MDC (Area Factor) corrected = (0.32) 1 sample, SU2 Scanning MDC (Area Factor) corrected = (2.44) 3 samples

SU3 Scanning MDC (Area Factor) corrected = (164.9) 165 samples, SU4 Scanning MDC (Area factor) corrected = (26.5) 27 samples

SU5 Scanning MDC (Area factor) corrected = (12.08) 13 samples, SU6 Scanning MDC (Area factor) corrected = (0.22) 1 sample

SU7 Scanning MDC (Area factor) corrected = (32.2) 33 samples, SU8 Scanning MDC (Area factor) corrected = (12.99) 13 samples

SU9 Scanning MDC (Area factor) corrected = (71.8) 72 samples, SU10 Scanning MDC (Area factor) corrected = (102) 102 samples.

Visual Sample Plan (VSP) 15 foot triangular grid: (Calc., on Map*)

SU1 Calculated = Selected Samples (Calc, on Map) = (1, 1), SU2 Calculated = Selected Samples (Calc, on Map) = (1, 1)

SU3 Calculated = Selected Samples (Calc, on Map) = (28, 27), SU4 Calculated = Selected Samples (Calc, on Map) = (5, 4)

SU5 Calculated = Selected Samples (Calc, on Map) = (21, 21), SU6 Calculated = Selected Samples (Calc, on Map) = (1, 1)

SU7 Calculated = Selected Samples (Calc, on Map) = (6, 6), SU8 Calculated = Selected Samples (Calc, on Map) = (3, 3)

SU9 Calculated = Selected Samples (Calc, on Map) = (12,12), SU10 Calculated = Selected Samples (Calc, on Map) = (16, 13)

SU11 Calculated= Selected Samples (Calc, on Map) = (5, 8)

* This number may differ from calculated because of grid edge effects or adding judgement/bias samples.

The determination of the number of samples is consistent with section 3.7 of the standard VSAP, which provides a default grid spacing for SUs where PU-238 is the primary driver in the removal action.

Sample locations were selected by VSP with sampling goals of finding a Hot Spot utilizing a 15-foot triangular grid with a random starting point. A total of 97 sample locations will be assessed based on the default 15-foot triangular grid.

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Changes if any, from Pre Ex SUD:

MARRSIM Spreadsheet-Calculated Number of Samples: SU1 – 8; SU2 – 8; SU3 - 8; SU4 – 9; SU5/6 – 12; SU7 – 12; SU8 – 8; SU9 – 16; SU10 – 12; SU11 – 8; SU12 – 9; SU13 – 8; SU14 – 8; SU15 – 12.

VSP Samples on Map: SU1 – 6 (small area); SU2 – 6 (small area – 248 sq.ft.); SU3 – 27; SU4 – 6; SUs 5 & 6 combined, 47 samples; SU7 – 13; SU8 – 18; SU9 – 19; SU10 – 17; SU11 – 8; SU12 – 1 (very small area – 78 sq. ft.); SU13 - 8; SU14 – 5 (per Pre Ex SUD Figure 1 Note), and SU15 – 6 (small area).

Total sample locations: 187

Item		
Item 6b	Calculations/Chem, Std dev, Number of Samples	Based on the small size (79 sq.ft.) of the contaminated area for SU2 (PRS 405), only one sample will be required.

Changes if any, from Pre Ex SUD:

SU2 will have six sample locations because of area increase (now 247 sq. ft.) during the removal action.

Item		
Item 7	Grid spacing	From Attachment C. Triangular 15 foot grid, laid out by Visual Sample Plan.

Changes if any, from Pre Ex SUD:

None

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Item 8	QA/QC: 1/20 via field duplicate in accordance with Mound Methods Compendium. Q-002 Chain-of-Custody Procedures Q-003 Documentation Requirements Q-004 Laboratory Data Reduction Q-006 Validation of Laboratory Data Packages Q-007 Data Assessment Q-008 Data Integrity Verification Q-010 Electronic Data Deliverable Format Specifications – MEIMS Std. ... DV-023 Total Petroleum Hydrocarbons (TPH) by EPA 418.1 Data Validation S-001 General Instructions for Field Personnel S-002 Soil Sampling With a Spade and Scoop S-028 Sample Control and Documentation S-029 Guide to Handling, Packaging, and Shipping of Samples and Method Q-002
Item 9	Bias/judgement samples (Additional bias samples are always within the discretion of the EPA.) No bias samples are planned by CH2M Hill at this time. Because of the small sizes of SUs 1 and 6, judgmental sampling will be used.
	Changes from Pre Ex SUD: Because of the merging of SUs 5 and 6, no judgmental samples will be taken at SU6. Because of the continuing erosion of the hillside at PRSs 153 and 154, and with the concurrence of the OH EPA, several early FSS samples were taken shortly after excavation at SU5/6 to document the base of the excavations. Similarly two samples have been taken at the north wall of SU-9. Locations of these samples are shown in Figure 1, Appendix II, identified with a box drawn around the sample location. OEPA has requested three bias samples, one in each location where water has pooled, i. e., SUs 5/6, 9, and 13.

AGS/6/

Item 10	Not otherwise covered.../ comments
	Site policy requires performance of onsite soil screening (NaI or germanium) on verification samples slated for offsite analysis and evaluation of the results prior to shipment. This analysis will generally be performed on a split of the verification sample containerized in an EPA dish (approximately 500 mL) but may be performed on the actual verification sample as long as containerization requirements are maintained for the offsite lab. Count time of the analysis will be sufficient to meet the cleanup objectives (COs) of the contaminants of concern (COCs) requiring verification. In-process sampling events (Characterization and Remedial Action Support Survey (RASS) samples) will be conducted during the entire PRS remediation. Those samples will undergo gamma spectrometry analysis to guide actions. Building 125 is one such area that will be scanned and, where necessary, RASS samples will be taken to guide actions. RASS sampling of the remediated areas will be used to determine if the FSS (verification) sampling could be conducted. These samples undergo gamma spectroscopy analysis and, where historical Th230 or U238 locations are above cleanup objectives, samples will be taken and analyzed via alpha spectroscopy. Most loading is planned to occur on asphalt roadways and will be released via radcon procedure MD-80036. Should other areas be impacted by loading of haulers, additional or expanded survey units will result. MARSSIM spreadsheets for Load Out Survey Units shall include the same COCs as the adjacent SU. Where historical results were low and excavation not planned unless FIDLER survey detects activity, a surface sample will be collected at each historical location (see Notes, Figure 1). If activity is detected by the FIDLER, excavation will occur and additional survey units added in the Post-Ex SUD.

A06/164

APPENDIX III

PRS 153 Post-Ex SUD

Revised SUs 3, 5&6, 13, and 15
New SU 16

- Explanation for Appendix III
- Connie Kline e-mail explaining PRS 153 path forward
- Revised SUD Map
- Survey Unit Comparison Table
- PRS 153 SU15 Re-excavation RASS sheets
- Revised MARRSIM Spreadsheets
- Standard Deviation Calculations for Additional Isotopes
- Revised Sample Locations

Revision to PRS 153 Post-Excavation SUD

The PRS 153 Post-Ex SUD is being revised:

- Because areas covered by the SUD were re-excavated and areas were changed after contamination exceeding cleanup objectives was found during verification sampling. This resulted in the expansion of SU15. SU3 decreased in overall size even though area was added to the south of the SU because the west end of the SU was moved into PRS 159. Samples SU13-153-7 and SU5&6-153-110 were added to SU15 due to differing COCs and were renumbered as such. This reduced the areas of SU13 and 5&6. Ac-227, Ra-226, Pb-210, and Pa-231 were added as COCs in SU-15 since they were found by RASS sampling during re-excavation (see attached Soil Analysis Report sheets).

- SU16 of this SUD was created due to PRS 159 excavation. PRS 159 COCs are used for verification.

A68/164

From: Constance Kline
To: "Jane.Tomcisin@epa.state.oh.us".mime.INTERNET; "Mary.Wojciechowski@ttemi.com".mime.INTERNET; Fischer.Timothy@epa.gov; Friedman, Chuck; Hersemann, Rick; Lucas, Paul; Nickel, Brian; Webb, Jim
Date: 11/22/05 11:23AM
Subject: PRS 153 information

Interim update information for PRS 153 post-ex SUD verification effort:

SU 9
Sample locations VSP-163, 164, 166 have **offsite** iso-Th results of 5-10 pCi/g for Th-230. These locations need to be scraped (~1 ft), perform FIDLER walkover and resampled. We will probably need to drive over 161 and 162 if so, scrape, walkover and resample these location as well. Use the original sample IDs and locations with an "A" (ex. SU9-153-161A) when resampling. Analyze for iso-Pu and iso-Th, as stated in the post-ex SUD. This is not a change to the post-ex SUD and therefore, an Appendix III is not required for this resample effort - unless contamination is chased outside the current boundaries.

SU 10
Sample locations VSP-028, 029 and 031 have **offsite** iso-Th results of 3-15 pCi/g for Th-230. These locations need to be scraped (~1 ft), perform FIDLER walkover and resampled. Any other location disturbed will be walked over and resampled. Use the original sample IDs and locations with an "A" (ex. SU9-153-161A) when resampling. Analyze for iso-Th, as stated in the post-ex SUD. This is not a change to the post-ex SUD and therefore, an Appendix III is not required for this resample effort - unless contamination is chased outside the current boundaries.

SU 5/6, 13, 15
Sample locations VSP-007, 137, 139 and 110 failed the **onsite** gamma spec for Th-230, Ra-226. The contamination is being chased with the FIDLER and bias samples are being collected to determine additional COCs. This area will be fully excavated with walkovers and RASS samples indicating the surface is ready for verification. Then a new SU will be drawn of this newly excavated area, COCs identified and an Appendix III will be issued for this verification resample effort.

SU 3
Sample locations VSP-040, 061 and 192 failed the **onsite** gamma spec for Th-230. These locations as well as those disturbed in the process and areas with elevated FIDLER readings, will be scraped, FIDLER walkover and resampled. Th-230 will be added as a COC. Samples will be analyzed for iso-Pu and iso-Th, as stated in the post-ex SUD. This change to the post-ex SUD (additional COCs) will be documented in the Appendix III along with any areas where contamination was chased outside the current boundaries.

SU 4, 11, 12 results from offsite indicate all analyses are <CO.

SU 7, 8 passes statistic tests for clean-up criteria, each having one result >CO<HS for Th-230.

SUs 1, 2 and part of 3 will be removed from verification in this SUD. The excavation at WD (PRS 159) was chased into these SUs, therefore SU 1,2 and affected part of 3 will be verified as part of PRS 159. This will be documented in the Appendix III.

No samples from **SUs part of 3, 13 and 15** have been sent to the offsite lab as of today, pending remediation of uphill locations to determine impact on these locations. Only select samples were sent offsite from **SUs 5/6 and 14**. Samples were selected based on their location not being affected by additional excavation.

All data will be presented in the backfill package. This is informational only.

CC: Armstrong, Kenneth; Arthur, Karen; Communications, Mound; Fontaine, James;

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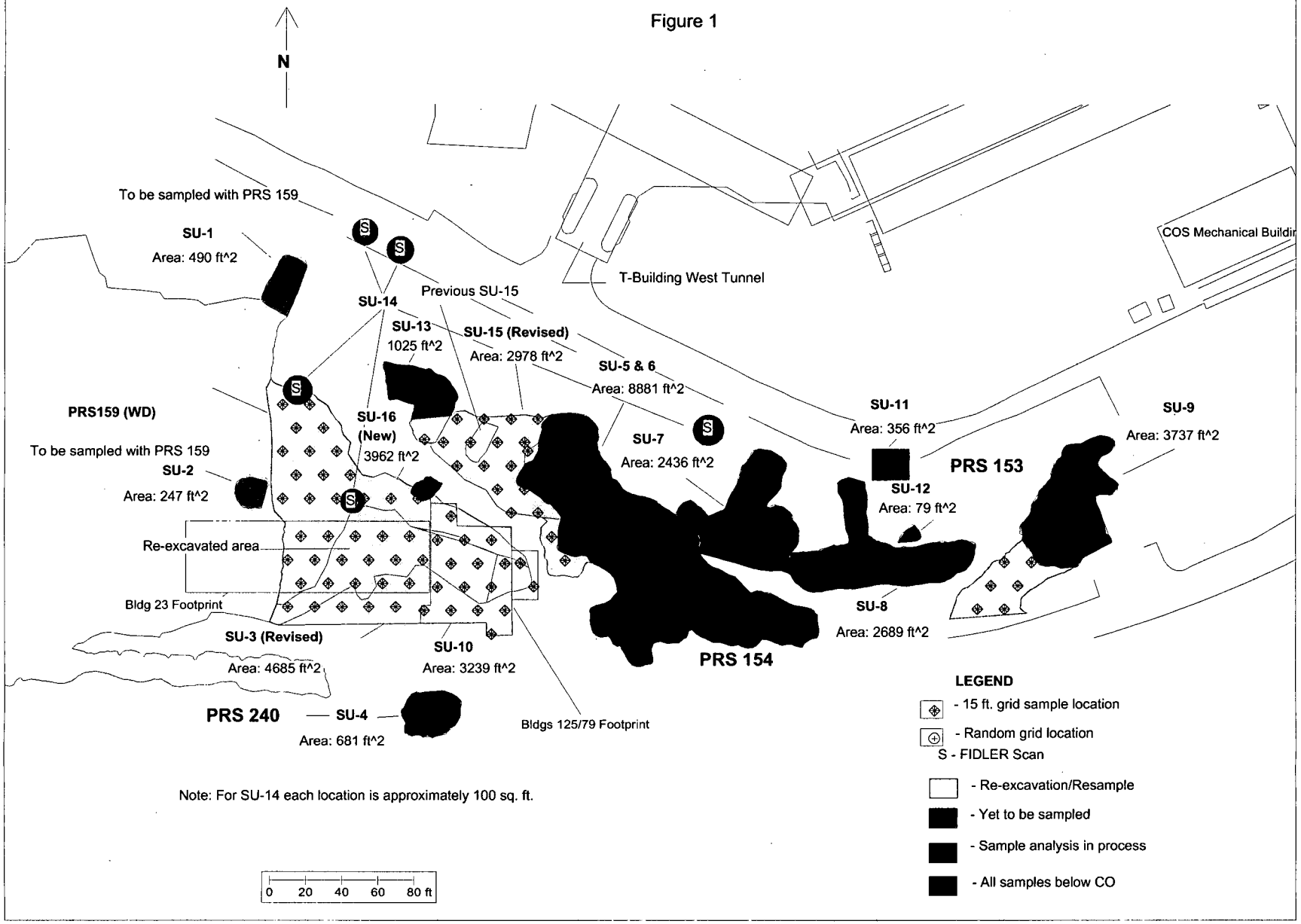
Kline, Constance; Kramer, Donald; Parfitt, Stephanie; Rakel, David; Ransbottom, Robert

A70/169

WD-HH Hillside Survey Units

PRS 153 Survey Unit Design-Resample

Figure 1



Note: For SU-14 each location is approximately 100 sq. ft.

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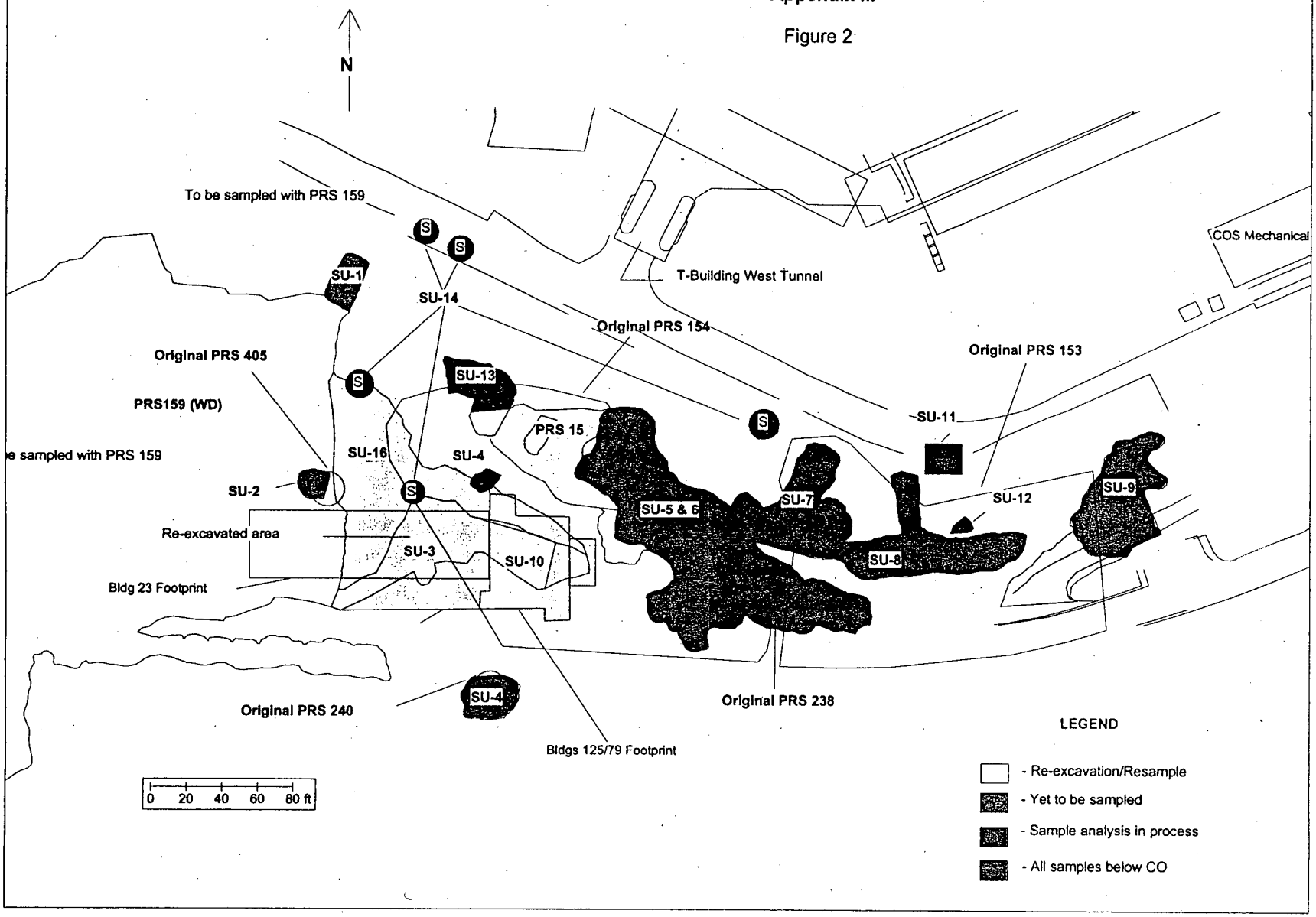
WD-HH Hillside Survey Units & PRSs

Appendix III

Figure 2



H732/64

PRS 153 Revised (Comparison) Survey Unit List

Table 1

Pre Ex SUD				Post Ex SUD				Appendix III	
Old SU #	Location	COC	Proposed Area of Verification (sq ft)	New SU #	Location	COC	Actual Area of Verification (sq ft)	Revised COCs	Revised Area (sq. ft.)
1	B16	U238	103	1	Same	n/c	490	n/a	n/a
2	PRS 405 ***	TPH, Pu238, & Th232	79	2	Same	n/c	247	n/a	n/a
3	23 Footprint	Pu238 & Th232	5324	3	Same	n/c	5324	Pu-238, Th-230, Th-232	4685
4	PRS 240 ***	Arsenic, Pu238, Ra226, Th232, & U238	855	4	Same	n/c	681	n/a	n/a
5	PRS 154	Ac227, Ra226, Th230, Th232, & U238	70			n/c		n/a	n/a
6	PRS 238	Same as 5	3900	5 & 6	Merged	n/c	8928	n/a	8881
7	PRS 153(West)	Pu238, Th230, & Th232	1040	7	Same	n/c	2436	n/a	n/a
8	PRS 153 (Center)	Pu238 & Th232	419	8	Same	n/c	2689	Th230 ~~n/a~~	n/a
9	PRS 153 (East)	Same as 7	2319	9	Same	n/c	3737	n/a	n/a
10	79/125 Footprint	Th230	2964	10	Same	n/c	3125****	n/a	3239
11	North of 153	Co60, Cs137, and Bi207	356	11	Same	n/c	356	n/a	n/a
				12	SO406	Th232	79	n/a	n/a
				13	MND17-2319 & areas north of Bldg 23	Pu238	1246	n/a	1025
				14	Miscellaneous surfaces *, **	Cs137, Pu238, & Th232	500	n/a	n/a
				15	SD01	Th230	218	Th-230, Ac-227, Ra-226, Pb-210, Pa-231	2978
				16	New	n/a	n/a	Pu-238, Th-230, Th-232	3962

* Per the note on Figure 1: Anticipated Limits of Excavation, walkover surveys were conducted at each location bounded by a dashed line (historical surface contamination). Where no detectable activity was found, a surface soil sample will be collected.

** Locations: SCR194, SCR190, SCR206, SCR281, #17, SCR 197, and SCR 199.

*** Mound has no on-site capability for analyzing soil for TPH or arsenic and no chemical RASS samples were obtained. The chemicals were collocated with radiological contaminants in SUs 2 and 4. The RASS data for the radiological contaminants indicate the area is ready for verification. Therefore, MCP is moving forward and taking only verification samples in Survey Units 2 and 4.

**** Survey Unit 10 grew, not because of excavation, but because the space between 79 and 125 was included in the Survey Unit.

n/a - not applicable

n/c - no change

A73/164

COLLECTED AT PRS153 SU15 DURING RE-EXCAVATION

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID:
File ID:
Priority:

Description/Location
PRS153 [illegible] Biased
Long Count

Collector:
Date Received:
Date Collected:

Radionuclide	Activity (pCi/g)	MDA
Co-60	0.02	0.07
Cs-137	0.23	0.08
Pb-210	13.36	1.85
Ra-226	15.31	2.01
Ac-227 (D)	20.99	0.51
Th-230	382.1	28.84
Th-232 (D)	0.73	0.25
Pu-238	0	39.1
Am-241	0	0.22

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA
Pa-231	25.26	2.15

Σ_{DOT} 0.50 pCi/g

Instrument type: High Purity Germanium

Σ_{DOT} 2pCi/g Inter. total activity

(D) Denotes identification by daughter emissions
Sample is Assumed to be in secular equilibrium

* Indicates activity < MDA. MDA used in lieu of activity

Comments: Rad Info Only

Date: 11/22/05 Counted By: 5288 Analyzed By: 5288 Initials: [redacted]

A74/164

COLLECTED AT PRS 153 SUIS DURING RE-EXCAVATION

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID:
File ID:
Priority:

Description/Location
PRS153 #4 Biased
Long Count

Collector:
Date Received:
Date Collected:

Radionuclide		Activity (pCi/g)	MDA
Co-60	*	0	0.09
Cs-137	*	0	0.09
Pb-210		14.54	1.75
Ra-226		16.76	1.83
Ac-227 (D)		17.64	0.48
Th-230		410.9	24.84
Th-232 (D)		0.68	0.28
Pu-238	*	6.98	31.39
Am-241	*	0	0.21

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA
Pa-231	16.07	2.85

$\sum_{DOT}$ 0.51 nCi/g

Instrument type: High Purity Germanium

* DOT 2nCi/g Limit total activity

(D) Denotes identification by daughter emissions
Sample is Assumed to be in secular equilibrium

* Indicates activity < MDA MDA used in limits calculation

Comments: Rad Info Only

Date: 11/22/05 Counted By: 5288 Analyzed By: 5288 Initials [redacted]

A75/164

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
1.22	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
0.39	Th-230+D	2.8	(pCi/g)	164.89
0.31	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
	0.20 *(s)*
Sign p	0.993790

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.48
Delta	0.52
(s)	0.20
Rel Shift	2.547
(N)	8.00

Area Factor (N) Pu-238 145.08

Sample Grid Spacing:

SU Area	435	m^2	4,685	ft^2
Grid Length	6.9	m	73.9	ft
Grid Height	5.9	m	64.0	ft

PRS N/A

Building 23 Footprint

Survey Unit 3

Rev 1

A76/156

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
0.11	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
0.39	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
0.77	Th-230+D	2.8	(pCi/g)	164.89
0.21	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
0.53	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05
$Z_{1-alpha}$	1.645
Type II Error	0.2
Z_{1-beta}	0.842
	0.40 (s)
Sign p	0.884930

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.40
Rel Shift	1.241
(N)	12.00

Area Factor (N)

U-238+D	200.2602
Th-230+D	Unreasonably large

Sample Grid Spacing:

SU Area	825	m^2	8,881	ft^2
Grid Length	7.7	m	83.1	ft
Grid Height	6.7	m	71.9	ft

PRS 154

Survey Unit 5/6
Rev 1

F77/1.4

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
0.42	Th-230+D	2.8	(pCi/g)	164.89
	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
	0.42 *(s)*
Sign p	0.884930

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.42
Rel Shift	1.200
(N)	12.00

Area Factor (N)
Th-230+D Unreasonably large

Sample Grid Spacing:

SU Area	301	m^2	3,239	ft^2
Grid Length	4.7	m	50.2	ft
Grid Height	4.0	m	43.4	ft

PRS N/A

Survey Unit 10
Rev 1

Buildings 79/125 Footprint

478/1.6.1

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
2.83	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
	Th-230+D	2.8	(pCi/g)	164.89
	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
	2.83 (s)
Sign p	0.99379

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	55
LBGR	46.55
Delta	8.45
(s)	2.83
Rel Shift	2.986
(N)	8.00

Area Factor (N) 31.74
Pu-238

Sample Grid Spacing:

SU Area	95	m^2	1,025	ft^2
Grid Length	3.2	m	34.6	ft
Grid Height	2.8	m	29.9	ft

PRS 154

Survey Unit 13
Rev 1

A-74/16

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
0.12	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
0.38	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
0.12	Pa-231+D	4	(pCi/g)	
0.24	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
0.39	Th-230+D	2.8	(pCi/g)	164.89
	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05	
$Z_{1\text{-alpha}}$	1.645	
Type II Error	0.2	
$Z_{1\text{-beta}}$	0.842	
	0.17	*(s)*
Sign p	0.993790	

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.17
Rel Shift	2.864
(N)	8.00

Area Factor (N)
Th-230+D Unreasonably large

Sample Grid Spacing:

SU Area	277	m^2	2,978	ft^2
Grid Length	5.5	m	58.9	ft
Grid Height	4.7	m	51.0	ft

PRS 154

Survey Unit 15
Rev 1

A8a/1of4

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
1.22	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
0.39	Th-230+D	2.8	(pCi/g)	164.89
0.31	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05
$Z_{1-alpha}$	1.645
Type II Error	0.2
Z_{1-beta}	0.842
	0.20 (s)
Sign p	0.993790

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.48
Delta	0.52
(s)	0.20
Rel Shift	2.547
(N)	8.00

Area Factor (N) 122.69
Pu-238

Sample Grid Spacing:

SU Area	368	m^2	3,962	ft^2
Grid Length	6.3	m	67.9	ft
Grid Height	5.5	m	58.8	ft

PRS N/A

Building 23 Footprint

Survey Unit 16
New

R/SW Phase I Soils
Off Site Gamma Results

1/24/2006

Sample ID \ pCi/g	Pb-210	Ra-226	Ac-227	Pa-231
-0-B023-02-000008	< 2.1	0.45	< 0.48	< 2.0
-0-B023-02-000008DUP	< 2.7	0.45	< 0.50	< 2.1
-0-B021-04-000015	< 2.2	0.48	< 0.46	< 2.0
-0-B042-10-000026	< 2.3	0.35	< 0.37	< 2.1
-0-B041-02-000045	2.4	0.92	< 0.43	< 1.5
-0-B016-06-000053	< 2.3	0.91	< 0.46	< 2.0
-0-B017-04-000057	< 2.6	0.88	0.64	< 2.6
-0-B015-10-000067	< 2.7	0.96	< 0.52	< 1.8
-0-B014-02-000068	< 2.1	0.90	< 0.41	< 1.9
-0-B035-14-000098	< 1.8	0.92	< 0.40	< 2.0
-0-B036-06--000104	< 2.0	1.08	< 0.53	< 2.2
-0-B008-02-000118	< 2.1	0.81	< 0.46	< 2.0
-0-B028-02-000143	< 2.1	0.82	< 0.42	< 2.0
-0-B023-02-000008	1.05	0.45	0.24	1
-0-B023-02-000008DUP	1.35	0.45	0.25	1.05
-0-B021-04-000015	1.1	0.48	0.23	1
-0-B042-10-000026	1.15	0.35	0.185	1.05
-0-B041-02-000045	2.4	0.92	0.215	0.75
-0-B016-06-000053	1.15	0.91	0.23	1
-0-B017-04-000057	1.3	0.88	0.64	1.3
-0-B015-10-000067	1.35	0.96	0.26	0.9
-0-B014-02-000068	1.05	0.9	0.205	0.95
-0-B035-14-000098	0.9	0.92	0.2	1
-0-B036-06--000104	1	1.08	0.265	1.1
-0-B008-02-000118	1.05	0.81	0.23	1
-0-B028-02-000143	1.05	0.82	0.21	1
average	1.22308	0.763846	0.258462	1.007692
standard deviation	0.37893	0.240608	0.117036	0.122213
R/SW data used because not enough data available in PRS153 to determine standard deviation for these isotopes				

Area: SU-16

X Coord	Y Coord	Label	Value	Type	Historical
1464734.2950	598439.7710	SU-16-PRS153-200		Hotspot	
1464749.2950	598439.7710	SU-16-PRS153-201		Hotspot	
1464764.2950	598439.7710	SU-16-PRS153-202		Hotspot	
1464794.2950	598439.7710	SU-16-PRS153-203		Hotspot	
1464741.7950	598452.7613	SU-16-PRS153-204		Hotspot	
1464756.7950	598452.7613	SU-16-PRS153-205		Hotspot	
1464771.7950	598452.7613	SU-16-PRS153-206		Hotspot	
1464734.2950	598465.7517	SU-16-PRS153-207		Hotspot	
1464749.2950	598465.7517	SU-16-PRS153-208		Hotspot	
1464764.2950	598465.7517	SU-16-PRS153-209		Hotspot	
1464741.7950	598478.7421	SU-16-PRS153-210		Hotspot	
1464756.7950	598478.7421	SU-16-PRS153-211		Hotspot	
1464734.2950	598491.7325	SU-16-PRS153-212		Hotspot	
1464749.2950	598491.7325	SU-16-PRS153-213		Hotspot	
1464809.2950	598439.7710	SU-16-PRS153-215		Hotspot	
1464779.2950	598439.7710	SU-16-PRS153-214		Hotspot	

Area: SU-9a

X Coord	Y Coord	Label	Value	Type	Histori
1465119.4140	598378.8436	SU-9 Loadout-PRS153-161		Hotspot	
1465134.4140	598378.8436	SU-9 Loadout-PRS153-162		Hotspot	
1465126.9140	598391.8340	SU-9 Loadout-PRS153-163		Hotspot	
1465141.9140	598391.8340	SU-9 Loadout-PRS153-164		Hotspot	
1465134.4140	598404.8243	SU-9 Loadout-PRS153-165		Hotspot	
1465149.4140	598404.8243	SU-9 Loadout-PRS153-166		Hotspot	

Area: SU-10a

X Coord	Y Coord	Label	Value	Type	Historica
1464873.7060	598391.3414	SU-10-(79)-PRS153-186		Hotspot	
1464866.2060	598404.3317	SU-10-(79)-PRS153-187		Hotspot	
1464850.1750	598365.0787	SU-10-(125)-PRS153-20		Hotspot	
1464812.6750	598378.0691	SU-10-(125)-PRS153-21		Hotspot	
1464827.6750	598378.0691	SU-10-(125)-PRS153-22		Hotspot	
1464842.6750	598378.0691	SU-10-(125)-PRS153-23		Hotspot	
1464857.6750	598378.0691	SU-10-(125)-PRS153-24		Hotspot	
1464820.1750	598391.0595	SU-10-(125)-PRS153-25		Hotspot	
1464835.1750	598391.0595	SU-10-(125)-PRS153-26		Hotspot	
1464850.1750	598391.0595	SU-10-(125)-PRS153-27		Hotspot	
1464827.6750	598404.0498	SU-10-(125)-PRS153-28		Hotspot	
1464842.6750	598404.0498	SU-10-(125)-PRS153-29		Hotspot	
1464857.6750	598404.0498	SU-10-(125)-PRS153-30		Hotspot	
1464820.1750	598417.0402	SU-10-(125)-PRS153-31		Hotspot	

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Area: SU-10a (cont.)

X Coord	Y Coord	Label	Value	Type	Historica
1464835.1750	598417.0402	SU-10-(125)-PRS153-32		Hotspot	
1464850.1750	598417.0402	SU-10-(125)-PRS153-33		Hotspot	
1464827.6750	598430.0306	SU-10-(125)-PRS153-34		Hotspot	

Area: SU-2

X Coord	Y Coord	Label	Value	Type	Historical
1464718.9640	598435.7797	SU-2-PRS153-62		Random	
1464708.3430	598443.2189	SU-2-PRS153-63		Random	
1464723.9980	598448.0186	SU-2-PRS153-64		Random	
1464714.3420	598450.4369	SU-2-PRS153-65		Random	
1464716.8710	598441.5790	SU-2-PRS153-66		Random	
1464714.1630	598442.8755	SU-2-PRS153-67		Random	

Area: SU-1

X Coord	Y Coord	Label	Value	Type	Historical
1464732.2790	598561.8938	SU-1-PRS153-14		Random	
1464736.5720	598553.0126	SU-1-PRS153-15		Random	
1464726.2080	598548.3992	SU-1-PRS153-16		Random	
1464744.2940	598570.1995	SU-1-PRS153-17		Random	
1464730.7790	598562.6788	SU-1-PRS153-18		Random	
1464738.4580	598570.8526	SU-1-PRS153-19		Random	

Area: SU-15a

X Coord	Y Coord	Label	Value	Type	Historical
1464891.0470	598405.7561	SU-15-PRS153-137		Hotspot	
1464883.5470	598418.7465	SU-15-PRS153-138		Hotspot	
1464861.0470	598431.7368	SU-15-PRS153-139		Hotspot	
1464876.0470	598431.7368	SU-15-PRS153-140		Hotspot	
1464853.5470	598444.7272	SU-15-PRS153-141		Hotspot	
1464868.5470	598444.7272	SU-15-PRS153-142		Hotspot	
1464831.0470	598457.7176	SU-15-PRS153-189		Hotspot	
1464846.0470	598457.7176	SU-15-PRS153-190		Hotspot	
1464861.0470	598457.7176	SU-15-PRS153-191		Hotspot	
1464823.5470	598470.7080	SU-15-PRS153-192		Hotspot	
1464838.5470	598470.7080	SU-15-PRS153-193		Hotspot	
1464853.5470	598470.7080	SU-15-PRS153-194		Hotspot	
1464868.5470	598470.7080	SU-15-PRS153-195		Hotspot	
1464831.0470	598483.6984	SU-15-PRS153-196		Hotspot	
1464846.0470	598483.6984	SU-15-PRS153-197		Hotspot	
1464861.0470	598483.6984	SU-15-PRS153-198		Hotspot	
1464876.0470	598483.6984	SU-15-PRS153-199		Hotspot	

A84/164

Area: SU-15a (cont.)

X Coord	Y Coord	Label	Value	Type	Historical
1464813.0220	598472.3301	SU-15-PRS153-7		Hotspot	
1464870.3230	598465.9201	SU-15-PRS153-110		Hotspot	

Area: SU3

X Coord	Y Coord	Label	Value	Type	Historical
1464744.5800	598393.1545	SU-3-PRS153-39		Hotspot	
1464759.5800	598393.1545	SU-3-PRS153-40		Hotspot	
1464774.5800	598393.1545	SU-3-PRS153-41		Hotspot	
1464789.5800	598393.1545	SU-3-PRS153-42		Hotspot	
1464804.5800	598393.1545	SU-3-PRS153-43		Hotspot	
1464737.0800	598406.1449	SU-3-PRS153-47		Hotspot	
1464752.0800	598406.1449	SU-3-PRS153-48		Hotspot	
1464767.0800	598406.1449	SU-3-PRS153-49		Hotspot	
1464782.0800	598406.1449	SU-3-PRS153-50		Hotspot	
1464797.0800	598406.1449	SU-3-PRS153-51		Hotspot	
1464812.0800	598406.1449	SU-3-PRS153-52		Hotspot	
1464744.5800	598419.1352	SU-3-PRS153-57		Hotspot	
1464759.5800	598419.1352	SU-3-PRS153-58		Hotspot	
1464774.5800	598419.1352	SU-3-PRS153-59		Hotspot	
1464789.5800	598419.1352	SU-3-PRS153-60		Hotspot	
1464804.5800	598419.1352	SU-3-PRS153-61		Hotspot	
1464737.0800	598380.1641	SU-3-PRS153-188		Hotspot	
1464752.0800	598380.1637	SU-3-PRS153-216		Hotspot	
1464767.0800	598380.1637	SU-3-PRS153-217		Hotspot	
1464782.0800	598380.1637	SU-3-PRS153-218		Hotspot	
1464797.0800	598380.1637	SU-3-PRS153-219		Hotspot	

~~Area: Legend 5~~

~~X Coord~~	~~Y Coord~~	~~Label~~	~~Value~~	~~Type~~	~~Historical~~
~~1465095.7850~~	~~598322.4786~~			~~Hotspot~~	

~~Area: Legend 6~~

~~X Coord~~	~~Y Coord~~	~~Label~~	~~Value~~	~~Type~~	~~Historical~~
~~1465095.7850~~	~~598307.0112~~			~~Random~~	

Not Applicable For Figure 1 presentation only

Area: SU14a

X Coord	Y Coord	Label	Value	Type	Historical
1464780.0010	598587.5203	SU-14-PRS153-3		Random	

Area: SU14b

X Coord	Y Coord	Label	Value	Type	Historical
1464799.8340	598577.0529	SU-14-PRS153-4		Random	

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Area: SU14c

X Coord	Y Coord	Label	Value	Type	Historical
1464741.9880	598500.4753	SU-14-PRS153-2		Random	

Area: SU14d

X Coord	Y Coord	Label	Value	Type	Historical
1464970.0680	598476.7858	SU-14-PRS153-5		Random	

Area: SU14e

X Coord	Y Coord	Label	Value	Type	Historical
1464772.8390	598437.6707	SU-14-PRS153-1		Random	

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APPENDIX D

BACKFILL PACKAGES

- West (SUs 1-6, 10, & 13-16)
- East (SUs 7-9 & 11-12)

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STD VSAP BACKFILL INFO

This information will be represented in the Data Report.

For: UGL PARTIAL IV (PRS 153+) WEST

[INCLUDES SUs 1-6, 10, 13-16 only]

Checklist:

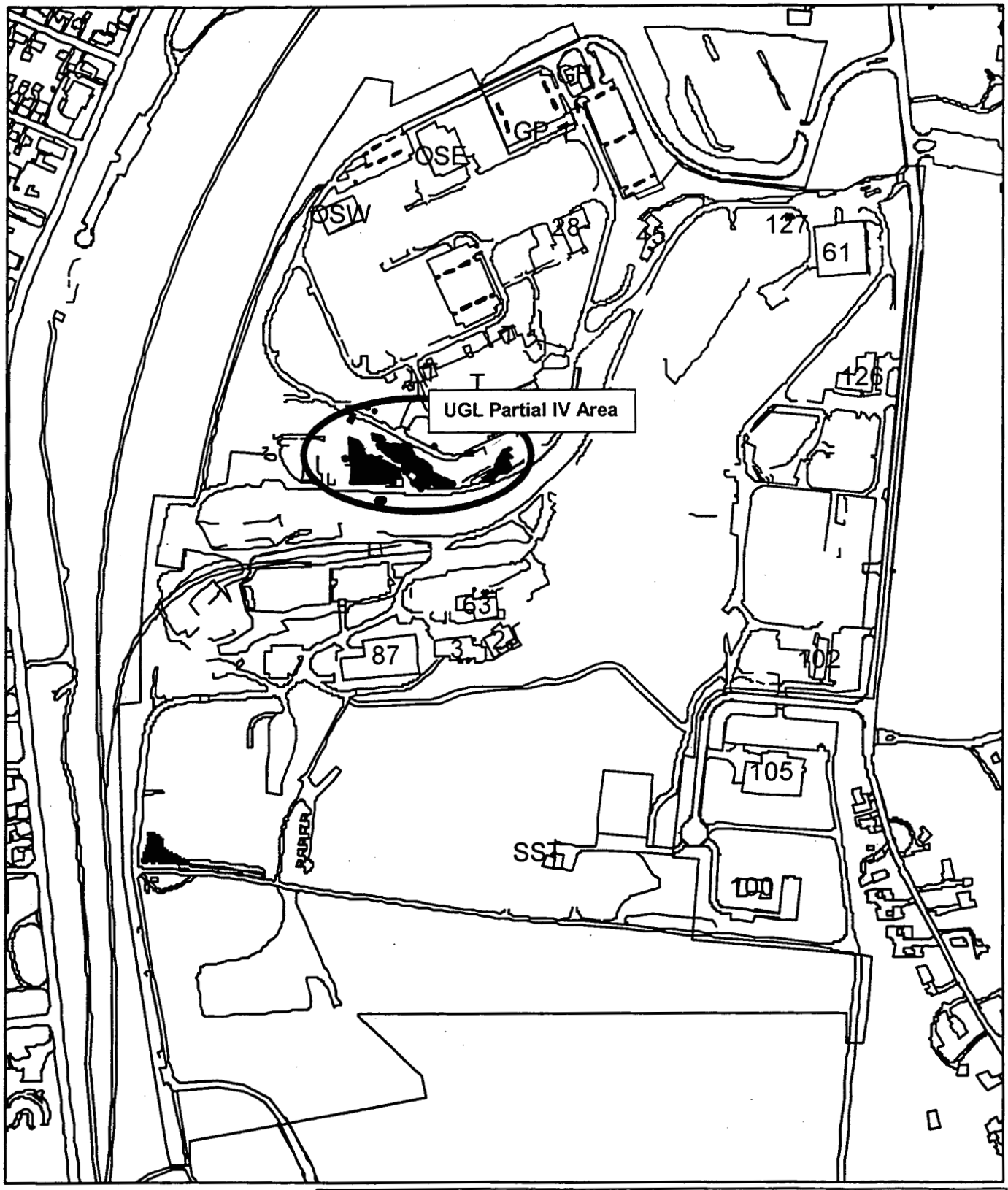
(per Section 5.6 of Std VSAP, Final, Aug 04)

- ☑ final Graphic EXHIBIT 1
  (show sample locations & note any >CO and/or >HS)
- ☑ sample results EXHIBIT 2
  (show DLs, HS, COs, and COC std deviation(s))
- ☑ recalc of N EXHIBIT 3
- ☑ preliminary data were reviewed
  (Data Review & Validation Report will be submitted with the Data Report)
- ☑ Sign test & 95%UCL (per SU) EXHIBIT 4
  (not required if all results <CO, see pg 19/21 of VSAP)
- ☑ retro curve EXHIBIT 3

From: (sign/date) 18 April 6

NOTE: BACKFILL IS PLANNED TO BEGIN 21 APRIL 06

A88/164



Scale in feet

0 200400 600 8001000

N

Figure 1:
Location of UGL Partial IV Area

14april06KMA

EXHIBIT 1
A89/169

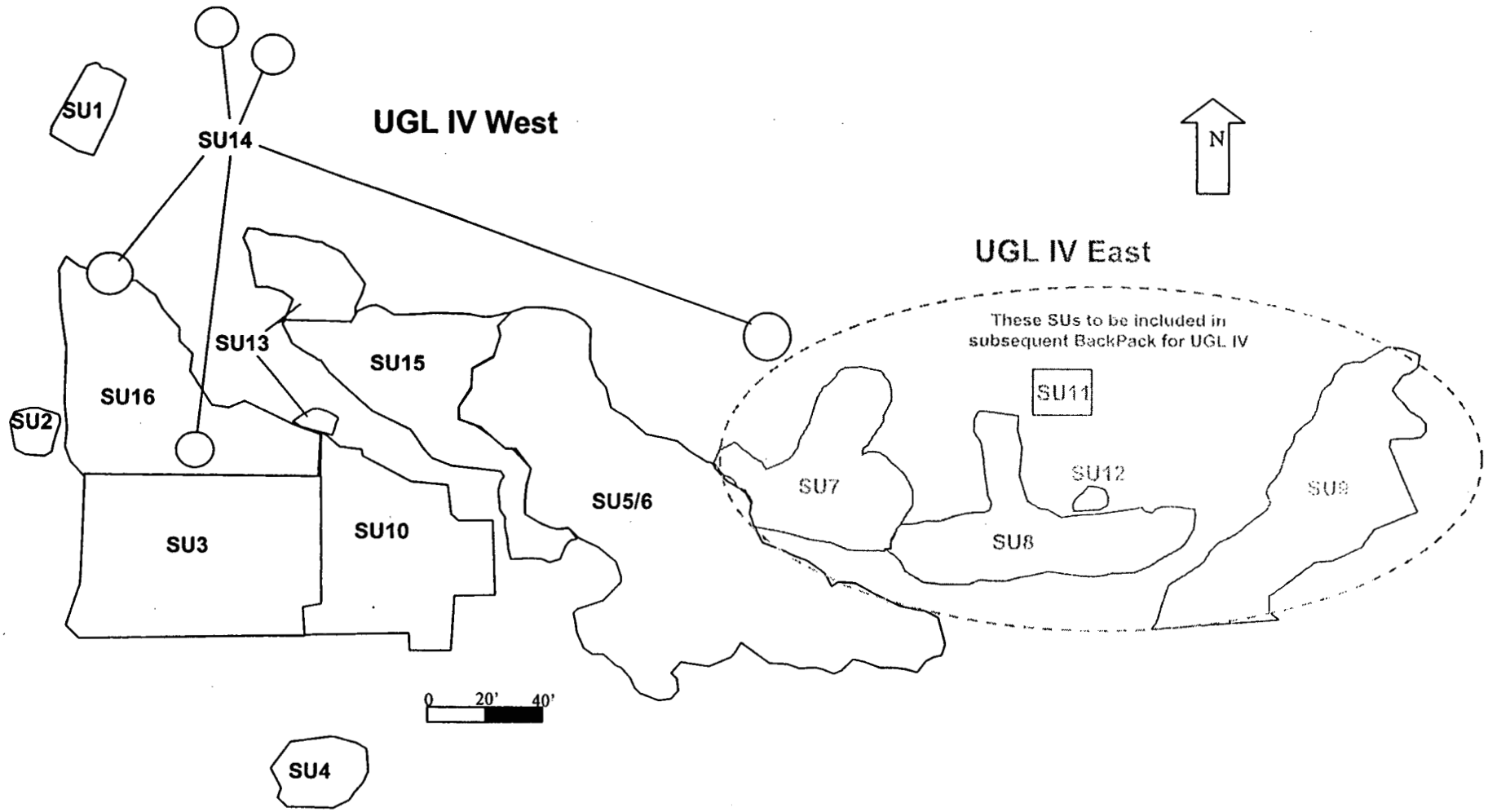


FIGURE 2: SU OVERVIEW

EXHIBIT I
A90/164

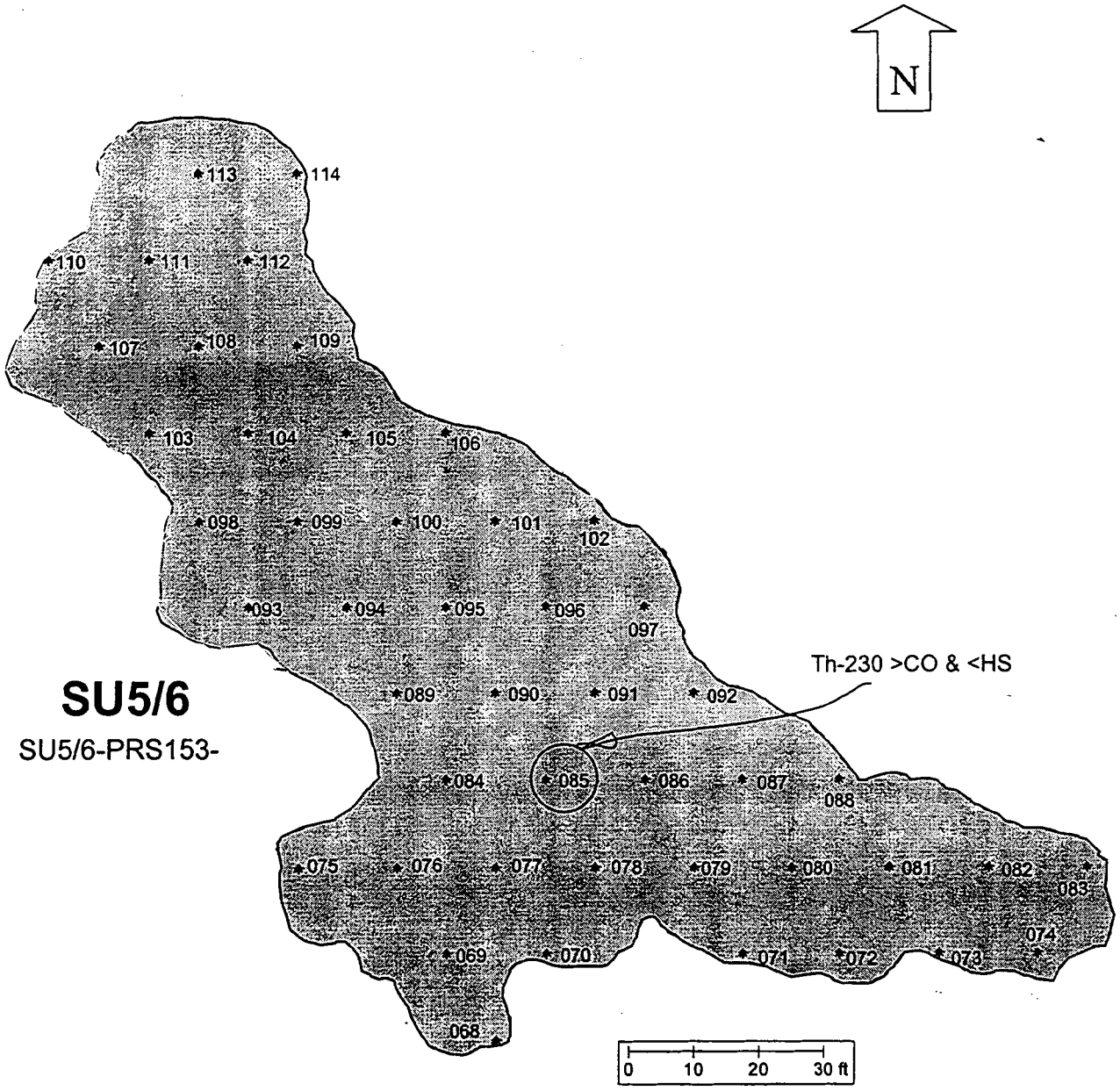


FIGURE 5: SUs 5 & 6 VERIFICATION LOCATIONS

EXHIBIT 1 A91/164

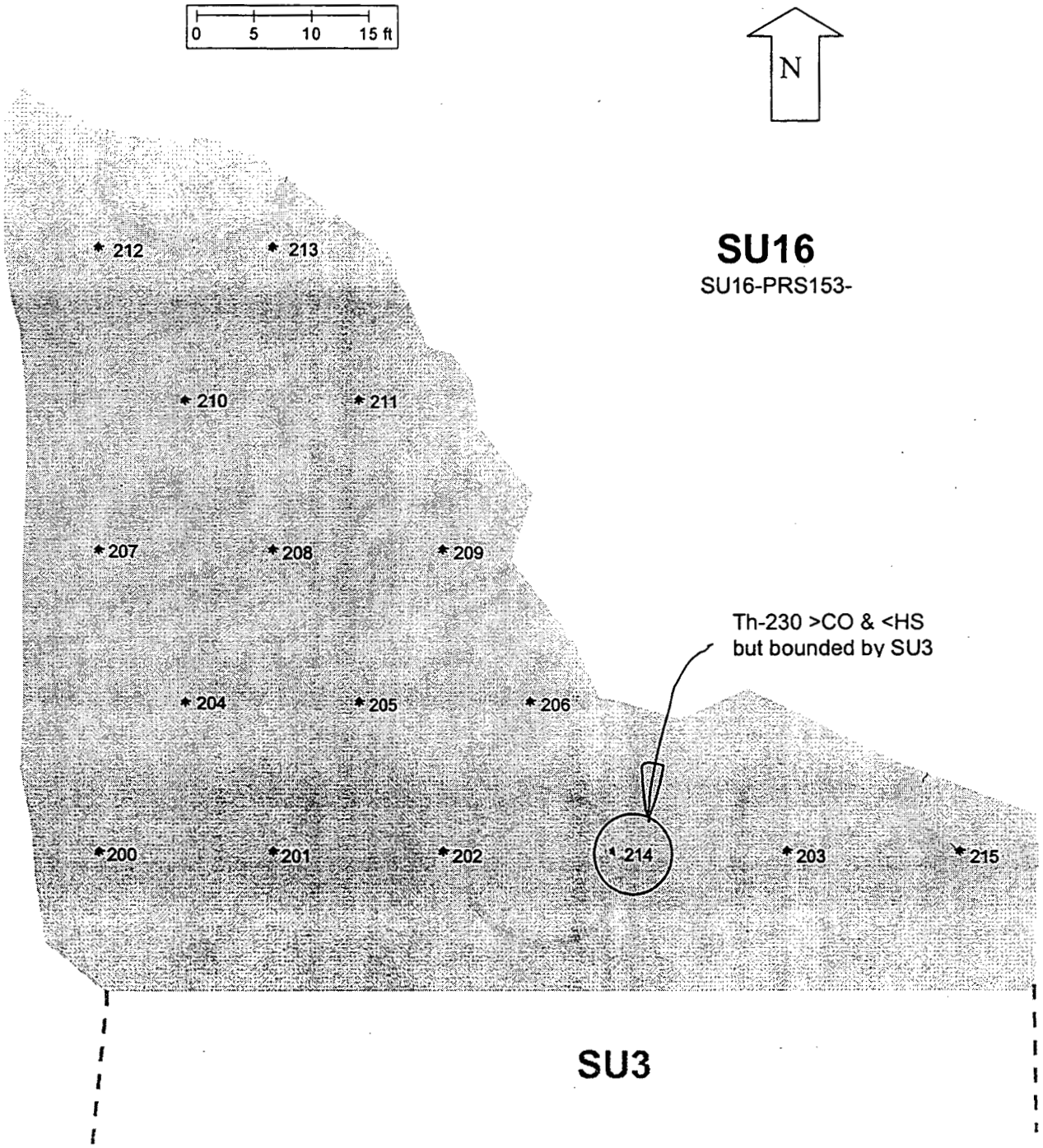
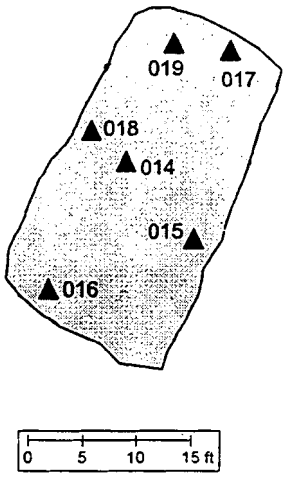


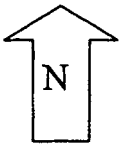
FIGURE 8: SU16 VERIFICATION LOCATIONS

A92/164

SU01-PRS153-



SU1



SU02-PRS153-

SU2

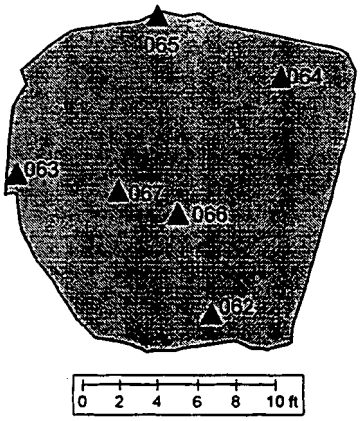


FIGURE 3: SUs 1 & 2 VERIFICATION LOCATIONS

EXHIBIT I
A93/164

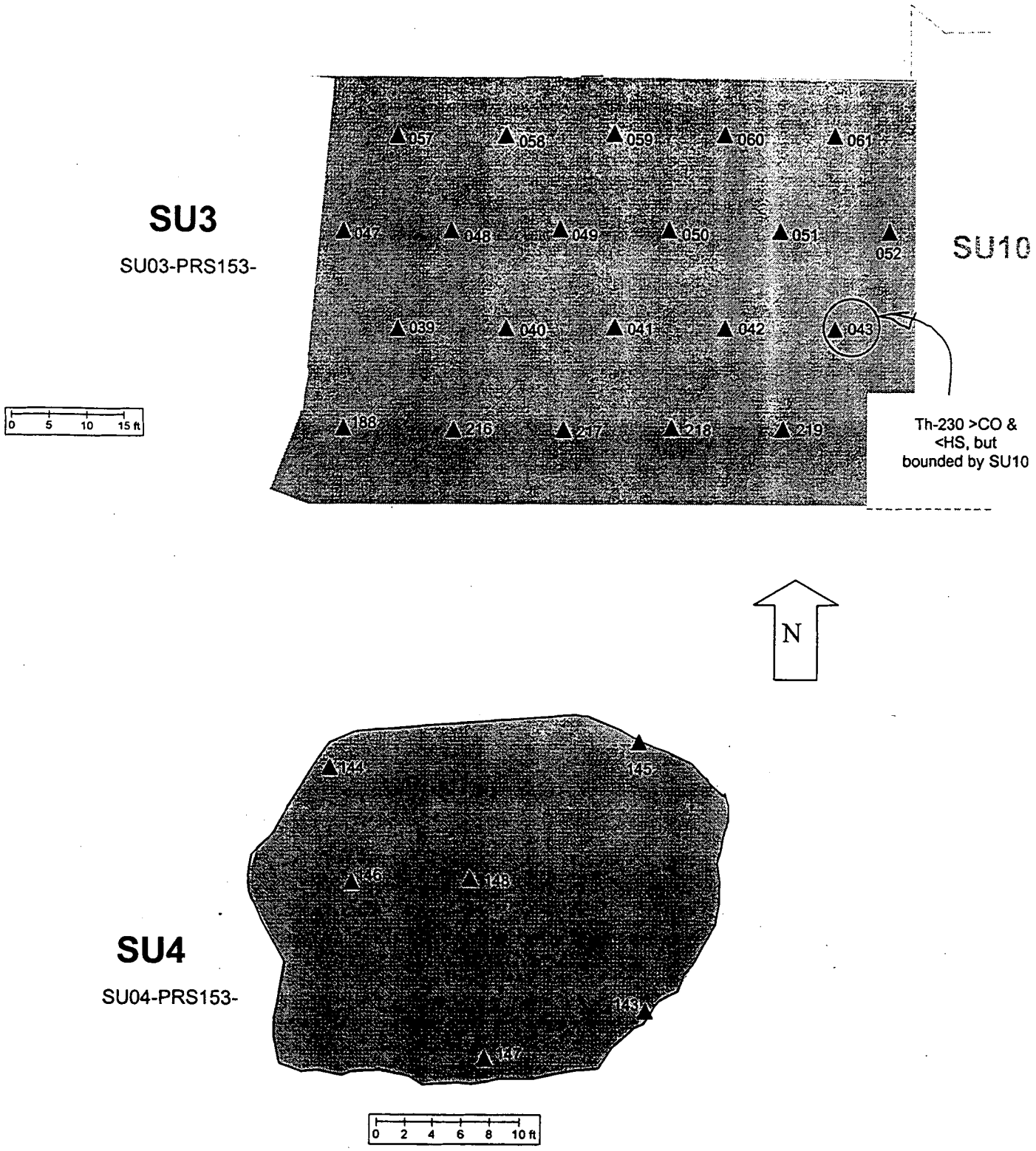


FIGURE 4: SUs 3 & 4 VERIFICATION LOCATIONS

EXHIBIT A94/169

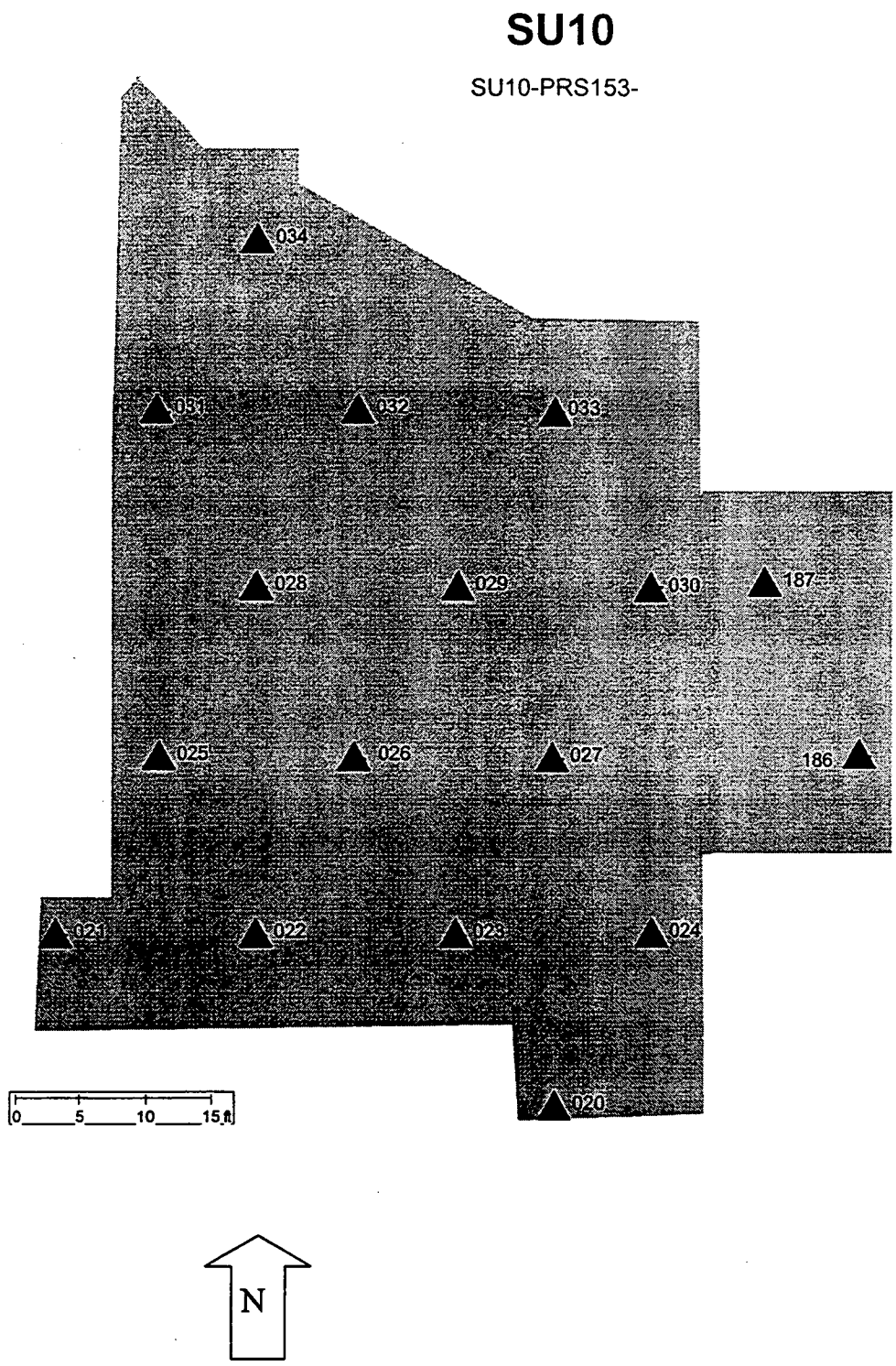


FIGURE 6: SU10 VERIFICATION LOCATIONS

EXHIBIT 1 A95/164

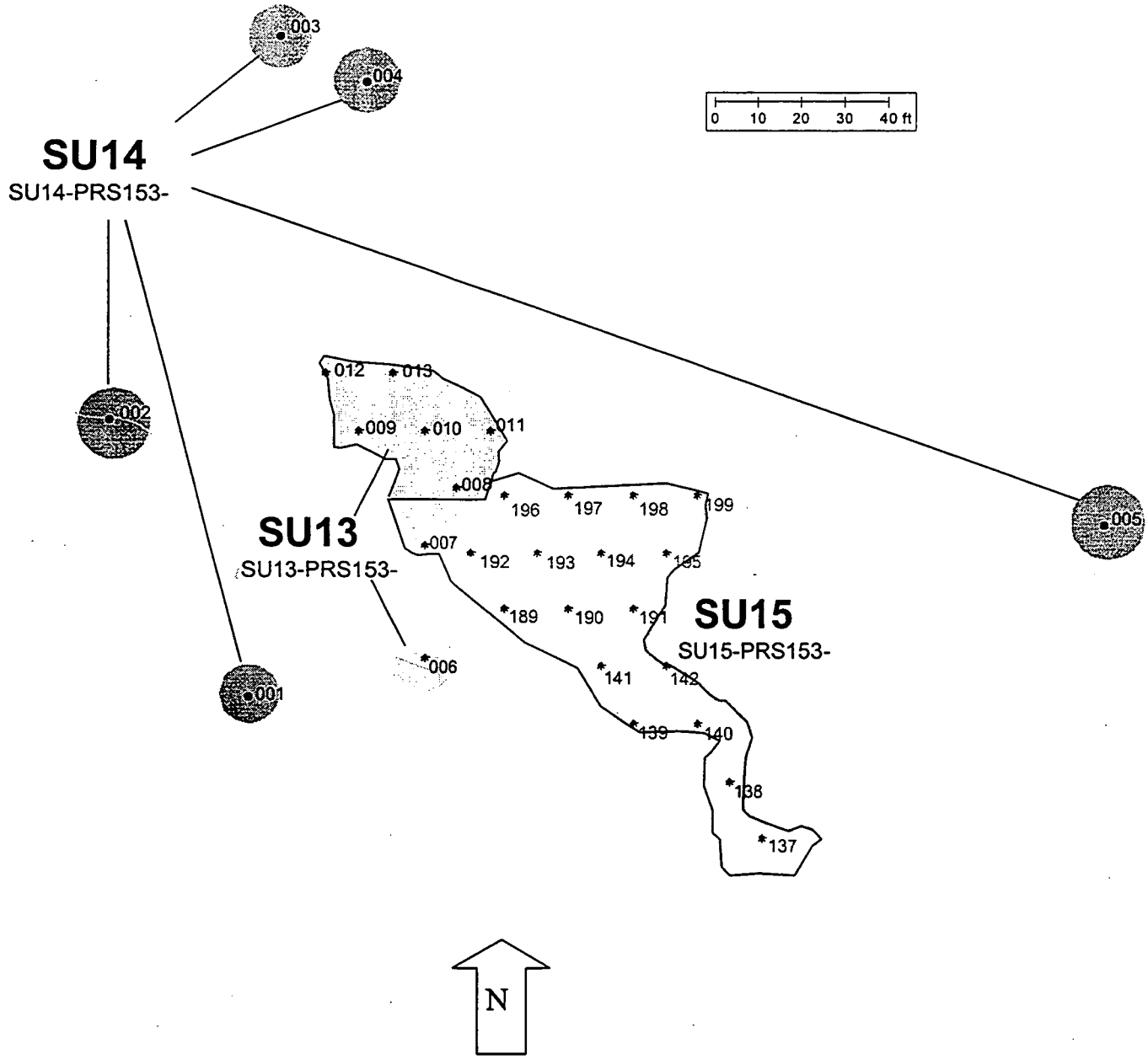


FIGURE 7: SUs 13-15 VERIFICATION LOCATIONS

EXHIBIT 1 A96/169

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU01-PRS153-014	0.7		Uranium 238	0.02	0.7
SU01-PRS153-015	0.8		Uranium 238	0.02	0.8
SU01-PRS153-016	0.81		Uranium 238	0.02	0.81
SU01-PRS153-017	0.82		Uranium 238	0.02	0.82
SU01-PRS153-018	0.93		Uranium 238	0.02	0.93
SU01-PRS153-019	0.73		Uranium 238	0.03	0.73

SU1 U-238

Standard Deviaiton	0.080
Max Result	0.930
Cleanup Objective	2.200
Hot Spot Criteria	4.200

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU02-PRS153-062	1.87		Plutonium-238	0.03	1.87
SU02-PRS153-063	1.68		Plutonium-238	0.03	1.68
SU02-PRS153-064	0.038	J	Plutonium-238	0.024	0.038
SU02-PRS153-065	0.059	J	Plutonium-238	0.029	0.059
SU02-PRS153-066	2.04		Plutonium-238	0.02	2.04
SU02-PRS153-067	2.63		Plutonium-238	0.03	2.63

SU2 Pu-238

Standard Deviaiton	1.084
Max Result	2.630
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU02-PRS153-062	0.88		Thorium-232	0.03	0.88
SU02-PRS153-063	1.15		Thorium-232	0.03	1.15
SU02-PRS153-064	0.67		Thorium-232	0.08	0.67
SU02-PRS153-065	1.3		Thorium-232	0.04	1.3
SU02-PRS153-066	0.99		Thorium-232	0.04	0.99
SU02-PRS153-067	1.11		Thorium-232	0.05	1.11

SU2 Th-232

Standard Deviaiton	0.222
Max Result	1.300
Cleanup Objective	2.100
Hot Spot Criteria	3.500

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU02-PRS153-062	34	U	TPH (as Diesel)	34	34
SU02-PRS153-063	29	U	TPH (as Diesel)	29	29
SU02-PRS153-064	27	U	TPH (as Diesel)	27	27
SU02-PRS153-065	31	U	TPH (as Diesel)	31	31
SU02-PRS153-066	29	U	TPH (as Diesel)	29	29
SU02-PRS153-067	31	U	TPH (as Diesel)	31	31

SU2 TPH (mg/kg)

total petroleum hydrocarbons

Standard Deviaiton	NA
Max Result	34.000
Cleanup Objective	105.000

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A97/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU03-PRS153-039	0.308		Plutonium-238	0.034	0.308
SU03-PRS153-040	0.088	J	Plutonium-238	0.035	0.088
SU03-PRS153-041	0.03	U	Plutonium-238	0.032	0.03
SU03-PRS153-042	0.171		Plutonium-238	0.03	0.171
SU03-PRS153-043	0.217		Plutonium-238	0.028	0.217
SU03-PRS153-047	0.21		Plutonium-238	0.049	0.21
SU03-PRS153-048	0.192		Plutonium-238	0.043	0.192
SU03-PRS153-049	0.015	U	Plutonium-238	0.024	0.015
SU03-PRS153-050	0.002	U	Plutonium-238	0.039	0.002
SU03-PRS153-051	-0.0009	U	Plutonium-238	0.036	0.018
SU03-PRS153-052	0.045	J	Plutonium-238	0.04	0.045
SU03-PRS153-057	0.473		Plutonium-238	0.033	0.473
SU03-PRS153-058	0.94		Plutonium-238	0.03	0.94
SU03-PRS153-059	0.058	J	Plutonium-238	0.039	0.058
SU03-PRS153-060	0.064	J	Plutonium-238	0.034	0.064
SU03-PRS153-061	0.028	U	Plutonium-238	0.077	0.028
SU03-PRS153-188	0.1	J	Plutonium-238	0.032	0.1
SU03-PRS153-216	0.248		Plutonium-238	0.026	0.248
SU03-PRS153-217	0.28		Plutonium-238	0.036	0.28
SU03-PRS153-218	0.85		Plutonium-238	0.03	0.85
SU03-PRS153-219	0.219		Plutonium-238	0.031	0.219

SU3 Pu-238

Standard Deviaiton	**0.256**
Max Result	**0.940**
Cleanup Objective	**55.000**
Hot Spot Criteria	**165.000**

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU03-PRS153-039	1.31		Thorium-230	0.03	1.31
SU03-PRS153-040	0.72		Thorium-230	0.02	0.72
SU03-PRS153-041	1.09		Thorium-230	0.02	1.09
SU03-PRS153-042	1.72		Thorium-230	0.03	1.72
SU03-PRS153-043	**3.03**		**Thorium-230**	**0.03**	**3.03**
SU03-PRS153-047	0.9		Thorium-230	0.02	0.9
SU03-PRS153-048	0.88		Thorium-230	0.03	0.88
SU03-PRS153-049	1.33		Thorium-230	0.05	1.33
SU03-PRS153-050	0.79		Thorium-230	0.03	0.79
SU03-PRS153-051	1.04		Thorium-230	0.03	1.04
SU03-PRS153-052	1.61		Thorium-230	0.01	1.61
SU03-PRS153-057	1.17		Thorium-230	0.01	1.17
SU03-PRS153-058	2.09		Thorium-230	0.01	2.09
SU03-PRS153-059	0.92		Thorium-230	0.03	0.92
SU03-PRS153-060	0.72		Thorium-230	0.02	0.72
SU03-PRS153-061	1.14		Thorium-230	0.07	1.14
SU03-PRS153-188	1.09		Thorium-230	0.04	1.09
SU03-PRS153-216	0.96		Thorium-230	0.03	0.96
SU03-PRS153-217	0.65		Thorium-230	0.03	0.65
SU03-PRS153-218	1.46		Thorium-230	0.03	1.46
SU03-PRS153-219	0.68		Thorium-230	0.06	0.68

SU3 Th-230

Standard Deviaiton	**0.559**
Max Result	**3.030**
Cleanup Objective	**2.800**
Hot Spot Criteria	**4.600**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A98/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU03-PRS153-039	0.374		Thorium-232	0.022	0.374
SU03-PRS153-040	0.228		Thorium-232	0.018	0.228
SU03-PRS153-041	0.39		Thorium-232	0.013	0.39
SU03-PRS153-042	0.64		Thorium-232	0.02	0.64
SU03-PRS153-043	0.5		Thorium-232	0.02	0.5
SU03-PRS153-047	0.58		Thorium-232	0.01	0.58
SU03-PRS153-048	0.232		Thorium-232	0.026	0.232
SU03-PRS153-049	1.49		Thorium-232	0.04	1.49
SU03-PRS153-050	0.96		Thorium-232	0.03	0.96
SU03-PRS153-051	1.21		Thorium-232	0.03	1.21
SU03-PRS153-052	0.86		Thorium-232	0.01	0.86
SU03-PRS153-057	0.317		Thorium-232	0.011	0.317
SU03-PRS153-058	0.55		Thorium-232	0.03	0.55
SU03-PRS153-059	0.78		Thorium-232	0.02	0.78
SU03-PRS153-060	0.47		Thorium-232	0.03	0.47
SU03-PRS153-061	1.37		Thorium-232	0.04	1.37
SU03-PRS153-188	0.35		Thorium-232	0.02	0.35
SU03-PRS153-216	0.4		Thorium-232	0.03	0.4
SU03-PRS153-217	0.23		Thorium-232	0.015	0.23
SU03-PRS153-218	0.303		Thorium-232	0.036	0.303
SU03-PRS153-219	0.147		Thorium-232	0.084	0.147

SU3 Th-232

Standard Deviaiton	0.387
Max Result	1.490
Cleanup Objective	2.100
Hot Spot Criteria	3.500

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A99/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU04-PRS153-143	0.113		Plutonium-238	0.067	0.113
SU04-PRS153-144	0.006	U	Plutonium-238	0.065	0.006
SU04-PRS153-145	0.006	U	Plutonium-238	0.056	0.006
SU04-PRS153-146	0.196		Plutonium-238	0.045	0.196
SU04-PRS153-147	0.101		Plutonium-238	0.076	0.101
SU04-PRS153-148	0.9		Plutonium-238	0.05	0.9

SU4 Pu-238

Standard Deviaiton	0.341
Max Result	0.900
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU04-PRS153-143	0.77		Radium (226)	0.48	0.77
SU04-PRS153-144	0.77		Radium (226)	0.43	0.77
SU04-PRS153-145	0.71		Radium (226)	0.47	0.71
SU04-PRS153-146	0.87		Radium (226)	0.44	0.87
SU04-PRS153-147	0.96		Radium (226)	0.49	0.96
SU04-PRS153-148	0.82		Radium (226)	0.51	0.82

SU4 Ra-226

Standard Deviaiton	0.088
Max Result	0.960
Cleanup Objective	2.900
Hot Spot Criteria	4.700

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU04-PRS153-143	0.93		Thorium-232	0.05	0.93
SU04-PRS153-144	0.91		Thorium-232	0.05	0.91
SU04-PRS153-145	0.97		Thorium-232	0.05	0.97
SU04-PRS153-146	0.68		Thorium-232	0.07	0.68
SU04-PRS153-147	1.12		Thorium-232	0.06	1.12
SU04-PRS153-148	0.68		Thorium-232	0.05	0.68

SU4 Th-232

Standard Deviaiton	0.173
Max Result	1.120
Cleanup Objective	2.100
Hot Spot Criteria	3.500

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU04-PRS153-143	0.62		Uranium 238	0.04	0.62
SU04-PRS153-144	0.75		Uranium 238	0.04	0.75
SU04-PRS153-145	0.75		Uranium 238	0.05	0.75
SU04-PRS153-146	0.76		Uranium 238	0.03	0.76
SU04-PRS153-147	0.66		Uranium 238	0.04	0.66
SU04-PRS153-148	0.76		Uranium 238	0.03	0.76

SU4 U-238

Standard Deviaiton	0.061
Max Result	0.760
Cleanup Objective	2.200
Hot Spot Criteria	4.200

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU04-PRS153-143	5.8		Arsenic	1.2	5.8
SU04-PRS153-144	3.7		Arsenic	1.1	3.7
SU04-PRS153-145	3.7		Arsenic	1.2	3.7
SU04-PRS153-146	6.6		Arsenic	1.1	6.6
SU04-PRS153-147	4.1		Arsenic	1.2	4.1
SU04-PRS153-148	9.1		Arsenic	1.1	9.1

SU4 As (mg/kg)

Standard Deviaiton	2.131
Max Result	9.100
Cleanup Objective	28.500

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A100/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU5/6-PRS153-068	0.2	U	Actinium 227	0.48	0.2
SU5/6-PRS153-069	0.2	U	Actinium 227	0.57	0.2
SU5/6-PRS153-070	0.37	U	Actinium 227	0.54	0.37
SU5/6-PRS153-071	0.3	U	Actinium 227	0.5	0.3
SU5/6-PRS153-072	0.08	U	Actinium 227	0.61	0.08
SU5/6-PRS153-073	0.02	U	Actinium 227	0.45	0.02
SU5/6-PRS153-074	0.57	U	Actinium 227	0.66	0.57
SU5/6-PRS153-075	0.16	U	Actinium 227	0.33	0.16
SU5/6-PRS153-076	1.22	J	Actinium 227	0.71	1.22
SU5/6-PRS153-077	-0.01	U	Actinium 227	0.42	0.21
SU5/6-PRS153-078	0.25	U	Actinium 227	0.74	0.25
SU5/6-PRS153-079	1.63	J	Actinium 227	0.84	1.63
SU5/6-PRS153-080	0.07	U	Actinium 227	0.38	0.07
SU5/6-PRS153-081	0.005	U	Actinium 227	0.58	0.005
SU5/6-PRS153-082	-0.005	U	Actinium 227	0.43	0.215
SU5/6-PRS153-083	0.03	U	Actinium 227	0.51	0.03
SU5/6-PRS153-084	0.09	U	Actinium 227	0.41	0.09
SU5/6-PRS153-085	0.42	U	Actinium 227	0.45	0.42
SU5/6-PRS153-086	-0.06	U	Actinium 227	0.74	0.37
SU5/6-PRS153-087	-0.01	U	Actinium 227	0.51	0.255
SU5/6-PRS153-088	0.36	U	Actinium 227	0.54	0.36
SU5/6-PRS153-089	0.35	U	Actinium 227	0.78	0.35
SU5/6-PRS153-090	1.11	J	Actinium 227	0.79	1.11
SU5/6-PRS153-091	-0.25	U	Actinium 227	0.59	0.295
SU5/6-PRS153-092	0.34	U	Actinium 227	0.65	0.34
SU5/6-PRS153-093	0.07	U	Actinium 227	0.68	0.07
SU5/6-PRS153-094	1.61	J	Actinium 227	0.88	1.61
SU5/6-PRS153-095	0.06	U	Actinium 227	0.56	0.06
SU5/6-PRS153-096	-0.09	U	Actinium 227	0.65	0.325
SU5/6-PRS153-097	0.19	U	Actinium 227	0.58	0.19
SU5/6-PRS153-098	2.02	J	Actinium 227	0.99	2.02
SU5/6-PRS153-099	0.29	U	Actinium 227	0.45	0.29
SU5/6-PRS153-100	0.09	U	Actinium 227	0.7	0.09
SU5/6-PRS153-101	1.79	J	Actinium 227	0.93	1.79
SU5/6-PRS153-102	0.44	U	Actinium 227	0.54	0.44
SU5/6-PRS153-103	0.15	U	Actinium 227	0.42	0.15
SU5/6-PRS153-104	0.02	U	Actinium 227	0.41	0.02
SU5/6-PRS153-105	0.35	U	Actinium 227	0.63	0.35
SU5/6-PRS153-106	0.2	U	Actinium 227	0.62	0.2
SU5/6-PRS153-107	1.47	J	Actinium 227	0.83	1.47
SU5/6-PRS153-108	-0.02	U	Actinium 227	0.48	0.24
SU5/6-PRS153-109	0.13	U	Actinium 227	0.38	0.13
SU5/6-PRS153-111	-0.03	U	Actinium 227	0.42	0.21
SU5/6-PRS153-112	1.02	J	Actinium 227	0.54	1.02
SU5/6-PRS153-113	-0.002	U	Actinium 227	0.38	0.19
SU5/6-PRS153-114	0.19	U	Actinium 227	0.49	0.19

SU5/6 Ac-227

Standard Deviaiton	**0.518**
Max Result	**2.020**
Cleanup Objective	**4.600**
Hot Spot Criteria	**13.610**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A101/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU5/6-PRS153-068	0.54		Radium (226)	0.34	0.54
SU5/6-PRS153-069	0.65		Radium (226)	0.41	0.65
SU5/6-PRS153-070	0.61		Radium (226)	0.41	0.61
SU5/6-PRS153-071	0.82	J	Radium (226)	0.17	0.82
SU5/6-PRS153-072	1	J	Radium (226)	0.51	1
SU5/6-PRS153-073	0.7	J	Radium (226)	0.41	0.7
SU5/6-PRS153-074	0.58	J	Radium (226)	0.44	0.58
SU5/6-PRS153-075	0.49	J	Radium (226)	0.3	0.49
SU5/6-PRS153-076	0.59	J	Radium (226)	0.36	0.59
SU5/6-PRS153-077	0.72	J	Radium (226)	0.38	0.72
SU5/6-PRS153-078	0.9	J	Radium (226)	0.3	0.9
SU5/6-PRS153-079	0.62	J	Radium (226)	0.41	0.62
SU5/6-PRS153-080	0.55	J	Radium (226)	0.33	0.55
SU5/6-PRS153-081	0.74	J	Radium (226)	0.52	0.74
SU5/6-PRS153-082	0.65	J	Radium (226)	0.36	0.65
SU5/6-PRS153-083	0.8		Radium (226)	0.47	0.8
SU5/6-PRS153-084	0.64	J	Radium (226)	0.33	0.64
SU5/6-PRS153-085	0.79	J	Radium (226)	0.31	0.79
SU5/6-PRS153-086	1.11	J	Radium (226)	0.61	1.11
SU5/6-PRS153-087	0.9	J	Radium (226)	0.49	0.9
SU5/6-PRS153-088	0.76		Radium (226)	0.39	0.76
SU5/6-PRS153-089	0.67	J	Radium (226)	0.57	0.67
SU5/6-PRS153-090	0.64	J	Radium (226)	0.39	0.64
SU5/6-PRS153-091	0.88	J	Radium (226)	0.54	0.88
SU5/6-PRS153-092	0.66		Radium (226)	0.44	0.66
SU5/6-PRS153-093	0.9	J	Radium (226)	0.56	0.9
SU5/6-PRS153-094	0.39	J	Radium (226)	0.37	0.39
SU5/6-PRS153-095	0.62	J	Radium (226)	0.51	0.62
SU5/6-PRS153-096	0.6	J	Radium (226)	0.51	0.6
SU5/6-PRS153-097	0.9		Radium (226)	0.53	0.9
SU5/6-PRS153-098	0.54	J	Radium (226)	0.43	0.54
SU5/6-PRS153-099	0.75	J	Radium (226)	0.19	0.75
SU5/6-PRS153-100	0.78	J	Radium (226)	0.61	0.78
SU5/6-PRS153-101	0.69	J	Radium (226)	0.46	0.69
SU5/6-PRS153-102	0.91		Radium (226)	0.42	0.91
SU5/6-PRS153-103	0.76	J	Radium (226)	0.15	0.76
SU5/6-PRS153-104	0.88	J	Radium (226)	0.35	0.88
SU5/6-PRS153-105	0.87	J	Radium (226)	0.59	0.87
SU5/6-PRS153-106	0.74		Radium (226)	0.48	0.74
SU5/6-PRS153-107	0.77	J	Radium (226)	0.21	0.77
SU5/6-PRS153-108	0.86	J	Radium (226)	0.46	0.86
SU5/6-PRS153-109	0.69	J	Radium (226)	0.33	0.69
SU5/6-PRS153-111	0.64	J	Radium (226)	0.35	0.64
SU5/6-PRS153-112	0.55	J	Radium (226)	0.15	0.55
SU5/6-PRS153-113	0.5	J	Radium (226)	0.33	0.5
SU5/6-PRS153-114	0.73		Radium (226)	0.13	0.73

SU5/6 Ra-226

Standard Deviaiton	**0.147**
Max Result	**1.110**
Cleanup Objective	**2.900**
Hot Spot Criteria	**4.700**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A102/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU5/6-PRS153-068	0.9		Thorium-230	0.03	0.9
SU5/6-PRS153-069	1.28		Thorium-230	0.06	1.28
SU5/6-PRS153-070	1.06		Thorium-230	0.05	1.06
SU5/6-PRS153-071	1.71		Thorium-230	0.03	1.71
SU5/6-PRS153-072	1.43		Thorium-230	0.01	1.43
SU5/6-PRS153-073	1.98		Thorium-230	0.02	1.98
SU5/6-PRS153-074	1.61		Thorium-230	0.01	1.61
SU5/6-PRS153-075	2.6		Thorium-230	0.03	2.6
SU5/6-PRS153-076	0.95		Thorium-230	0.02	0.95
SU5/6-PRS153-077	0.85		Thorium-230	0.04	0.85
SU5/6-PRS153-078	1.43		Thorium-230	0.04	1.43
SU5/6-PRS153-079	0.84		Thorium-230	0.03	0.84
SU5/6-PRS153-080	0.88		Thorium-230	0.03	0.88
SU5/6-PRS153-081	0.76		Thorium-230	0.01	0.76
SU5/6-PRS153-082	1.28		Thorium-230	0.03	1.28
SU5/6-PRS153-083	1.7		Thorium-230	0.04	1.7
SU5/6-PRS153-084	0.98		Thorium-230	0.02	0.98
SU5/6-PRS153-085	**3.86**		**Thorium-230**	**0.06**	**3.86**
SU5/6-PRS153-086	0.86		Thorium-230	0.02	0.86
SU5/6-PRS153-087	0.94		Thorium-230	0.03	0.94
SU5/6-PRS153-088	1.09		Thorium-230	0.03	1.09
SU5/6-PRS153-089	0.91		Thorium-230	0.01	0.91
SU5/6-PRS153-090	0.88		Thorium-230	0.03	0.88
SU5/6-PRS153-091	0.95		Thorium-230	0.05	0.95
SU5/6-PRS153-092	0.95		Thorium-230	0.03	0.95
SU5/6-PRS153-093	0.91		Thorium-230	0.03	0.91
SU5/6-PRS153-094	1.74		Thorium-230	0.02	1.74
SU5/6-PRS153-095	0.95		Thorium-230	0.02	0.95
SU5/6-PRS153-096	1.08		Thorium-230	0.03	1.08
SU5/6-PRS153-097	1.23		Thorium-230	0.05	1.23
SU5/6-PRS153-098	1.11		Thorium-230	0.03	1.11
SU5/6-PRS153-099	0.93		Thorium-230	0.03	0.93
SU5/6-PRS153-100	1.43		Thorium-230	0.04	1.43
SU5/6-PRS153-101	0.9		Thorium-230	0.03	0.9
SU5/6-PRS153-102	1.15		Thorium-230	0.05	1.15
SU5/6-PRS153-103	0.92		Thorium-230	0.03	0.92
SU5/6-PRS153-104	0.91		Thorium-230	0.04	0.91
SU5/6-PRS153-105	0.85		Thorium-230	0.03	0.85
SU5/6-PRS153-106	1.14		Thorium-230	0.05	1.14
SU5/6-PRS153-107	1.06		Thorium-230	0.02	1.06
SU5/6-PRS153-108	1.05		Thorium-230	0.03	1.05
SU5/6-PRS153-109	0.95		Thorium-230	0.03	0.95
SU5/6-PRS153-111	1.17		Thorium-230	0.03	1.17
SU5/6-PRS153-112	1.07		Thorium-230	0.01	1.07
SU5/6-PRS153-113	0.84		Thorium-230	0.03	0.84
SU5/6-PRS153-114	1.06		Thorium-230	0.05	1.06

SU5/6 Th-230

Standard Deviaiton	**0.537**
Max Result	**3.860**
Cleanup Objective	**2.800**
Hot Spot Criteria	**4.600**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A103/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU5/6-PRS153-068	1.3		Thorium-232	0.04	1.3
SU5/6-PRS153-069	1.45		Thorium-232	0.03	1.45
SU5/6-PRS153-070	1.56		Thorium-232	0.05	1.56
SU5/6-PRS153-071	1.16		Thorium-232	0.02	1.16
SU5/6-PRS153-072	1.01		Thorium-232	0.01	1.01
SU5/6-PRS153-073	0.97		Thorium-232	0.01	0.97
SU5/6-PRS153-074	0.94		Thorium-232	0.02	0.94
SU5/6-PRS153-075	0.52		Thorium-232	0.01	0.52
SU5/6-PRS153-076	0.81		Thorium-232	0.01	0.81
SU5/6-PRS153-077	1.19		Thorium-232	0.03	1.19
SU5/6-PRS153-078	1.13		Thorium-232	0.02	1.13
SU5/6-PRS153-079	1.07		Thorium-232	0.03	1.07
SU5/6-PRS153-080	0.97		Thorium-232	0.02	0.97
SU5/6-PRS153-081	0.96		Thorium-232	0.03	0.96
SU5/6-PRS153-082	0.91		Thorium-232	0.01	0.91
SU5/6-PRS153-083	0.95		Thorium-232	0.04	0.95
SU5/6-PRS153-084	0.98		Thorium-232	0.02	0.98
SU5/6-PRS153-085	0.93		Thorium-232	0.03	0.93
SU5/6-PRS153-086	1.13		Thorium-232	0.04	1.13
SU5/6-PRS153-087	1.24		Thorium-232	0.02	1.24
SU5/6-PRS153-088	0.94		Thorium-232	0.04	0.94
SU5/6-PRS153-089	1.07		Thorium-232	0.02	1.07
SU5/6-PRS153-090	1.1		Thorium-232	0.02	1.1
SU5/6-PRS153-091	1.33		Thorium-232	0.03	1.33
SU5/6-PRS153-092	0.96		Thorium-232	0.06	0.96
SU5/6-PRS153-093	1.11		Thorium-232	0.04	1.11
SU5/6-PRS153-094	1.06		Thorium-232	0.01	1.06
SU5/6-PRS153-095	1		Thorium-232	0.02	1
SU5/6-PRS153-096	1.14		Thorium-232	0.03	1.14
SU5/6-PRS153-097	1.24		Thorium-232	0.03	1.24
SU5/6-PRS153-098	1.37		Thorium-232	0.03	1.37
SU5/6-PRS153-099	0.98		Thorium-232	0.06	0.98
SU5/6-PRS153-100	1.24		Thorium-232	0.02	1.24
SU5/6-PRS153-101	0.86		Thorium-232	0.03	0.86
SU5/6-PRS153-102	1.26		Thorium-232	0.03	1.26
SU5/6-PRS153-103	1.05		Thorium-232	0.03	1.05
SU5/6-PRS153-104	1.09		Thorium-232	0.07	1.09
SU5/6-PRS153-105	1.06		Thorium-232	0.04	1.06
SU5/6-PRS153-106	1.39		Thorium-232	0.05	1.39
SU5/6-PRS153-107	1.11		Thorium-232	0.03	1.11
SU5/6-PRS153-108	1.01		Thorium-232	0.03	1.01
SU5/6-PRS153-109	1.19		Thorium-232	0.03	1.19
SU5/6-PRS153-111	0.85		Thorium-232	0.04	0.85
SU5/6-PRS153-112	1.03		Thorium-232	0.03	1.03
SU5/6-PRS153-113	0.83		Thorium-232	0.02	0.83
SU5/6-PRS153-114	1.17		Thorium-232	0.05	1.17

SU5/6 Th-232

Standard Deviaiton	**0.187**
Max Result	**1.560**
Cleanup Objective	**2.100**
Hot Spot Criteria	**3.500**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A104/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU5/6-PRS153-068	0.72		Uranium 238	0.04	0.72
SU5/6-PRS153-069	0.56		Uranium 238	0.07	0.56
SU5/6-PRS153-070	0.74		Uranium 238	0.05	0.74
SU5/6-PRS153-071	0.89		Uranium 238	0.01	0.89
SU5/6-PRS153-072	0.92		Uranium 238	0.01	0.92
SU5/6-PRS153-073	0.91		Uranium 238	0.01	0.91
SU5/6-PRS153-074	0.71		Uranium 238	0.02	0.71
SU5/6-PRS153-075	0.476		Uranium 238	0.024	0.476
SU5/6-PRS153-076	0.81		Uranium 238	0.01	0.81
SU5/6-PRS153-077	0.86		Uranium 238	0.01	0.86
SU5/6-PRS153-078	0.98		Uranium 238	0.02	0.98
SU5/6-PRS153-079	0.87		Uranium 238	0.02	0.87
SU5/6-PRS153-080	0.83		Uranium 238	0.01	0.83
SU5/6-PRS153-081	0.8		Uranium 238	0.01	0.8
SU5/6-PRS153-082	0.76		Uranium 238	0.02	0.76
SU5/6-PRS153-083	0.71		Uranium 238	0.03	0.71
SU5/6-PRS153-084	0.8		Uranium 238	0.01	0.8
SU5/6-PRS153-085	0.79		Uranium 238	0.06	0.79
SU5/6-PRS153-086	0.97		Uranium 238	0.05	0.97
SU5/6-PRS153-087	0.88		Uranium 238	0.01	0.88
SU5/6-PRS153-088	0.83		Uranium 238	0.04	0.83
SU5/6-PRS153-089	0.94		Uranium 238	0.01	0.94
SU5/6-PRS153-090	0.81		Uranium 238	0.02	0.81
SU5/6-PRS153-091	0.99		Uranium 238	0.04	0.99
SU5/6-PRS153-092	0.85		Uranium 238	0.05	0.85
SU5/6-PRS153-093	0.97		Uranium 238	0.03	0.97
SU5/6-PRS153-094	1.04		Uranium 238	0.01	1.04
SU5/6-PRS153-095	1.01		Uranium 238	0.03	1.01
SU5/6-PRS153-096	0.75		Uranium 238	0.02	0.75
SU5/6-PRS153-097	0.95		Uranium 238	0.04	0.95
SU5/6-PRS153-098	0.98		Uranium 238	0.02	0.98
SU5/6-PRS153-099	1.09		Uranium 238	0.05	1.09
SU5/6-PRS153-100	0.82		Uranium 238	0.02	0.82
SU5/6-PRS153-101	1.05		Uranium 238	0.01	1.05
SU5/6-PRS153-102	0.92		Uranium 238	0.05	0.92
SU5/6-PRS153-103	0.95		Uranium 238	0.02	0.95
SU5/6-PRS153-104	1.12		Uranium 238	0.04	1.12
SU5/6-PRS153-105	0.83		Uranium 238	0.03	0.83
SU5/6-PRS153-106	0.96		Uranium 238	0.04	0.96
SU5/6-PRS153-107	0.94		Uranium 238	0.01	0.94
SU5/6-PRS153-108	0.91		Uranium 238	0.01	0.91
SU5/6-PRS153-109	0.78		Uranium 238	0.02	0.78
SU5/6-PRS153-111	0.69		Uranium 238	0.02	0.69
SU5/6-PRS153-112	0.73		Uranium 238	0.02	0.73
SU5/6-PRS153-113	0.78		Uranium 238	0.02	0.78
SU5/6-PRS153-114	0.83		Uranium 238	0.03	0.83

SU5/6 U-238

Standard Deviaiton	**0.129**
Max Result	**1.120**
Cleanup Objective	**2.200**
Hot Spot Criteria	**4.200**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A105/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU10-PRS153-020	1.3		Thorium-230	0.04	1.3
SU10-PRS153-021	0.83		Thorium-230	0.04	0.83
SU10-PRS153-022	2.18		Thorium-230	0.02	2.18
SU10-PRS153-023	1.13		Thorium-230	0.04	1.13
SU10-PRS153-024	1.12		Thorium-230	0.06	1.12
SU10-PRS153-025	0.88		Thorium-230	0.04	0.88
SU10-PRS153-026	1.11		Thorium-230	0.02	1.11
SU10-PRS153-027	1.67		Thorium-230	0.06	1.67
SU10-PRS153-028	0.95		Thorium-230	0.03	0.95
SU10-PRS153-029	1.04		Thorium-230	0.03	1.04
SU10-PRS153-030	1.39		Thorium-230	0.04	1.39
SU10-PRS153-031	2.8		Thorium-230	0.07	2.8
SU10-PRS153-032	2.03		Thorium-230	0.04	2.03
SU10-PRS153-033	1.38		Thorium-230	0.06	1.38
SU10-PRS153-034	2.39		Thorium-230	0.05	2.39
SU10-PRS153-186	1.34		Thorium-230	0.05	1.34
SU10-PRS153-187	2.42		Thorium-230	0.03	2.42

SU10 Th-230

Standard Deviaiton	**0.610**
Max Result	**2.800**
Cleanup Objective	**2.800**
Hot Spot Criteria	**4.600**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A106/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU13-PRS153-006	0.01	U	Plutonium-238	0.021	0.01
SU13-PRS153-008	0.52		Plutonium-238	0.03	0.52
SU13-PRS153-009	0.59		Plutonium-238	0.03	0.59
SU13-PRS153-010	0.021	U	Plutonium-238	0.04	0.021
SU13-PRS153-011	0.037	U	Plutonium-238	0.039	0.037
SU13-PRS153-012	0.071	J	Plutonium-238	0.033	0.071
SU13-PRS153-013	-0.013	U	Plutonium-238	0.037	0.0185

SU13 Pu-238

Standard Deviaiton	0.257
Max Result	0.590
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU14-PRS153-001	0.018	U	Cesium 137	0.085	0.018
SU14-PRS153-002	0.0004	U	Cesium 137	0.072	0.0004
SU14-PRS153-003	0.011	U	Cesium 137	0.073	0.011
SU14-PRS153-004	0.042	U	Cesium 137	0.1	0.042
SU14-PRS153-005	-0.021	U	Cesium 137	0.091	0.0455

SU14 Cs-137

Standard Deviaiton	0.020
Max Result	0.042
Cleanup Objective	3.800
Hot Spot Criteria	10.620

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU14-PRS153-001	0.139		Plutonium-238	0.027	0.139
SU14-PRS153-002	0.228		Plutonium-238	0.036	0.228
SU14-PRS153-003	3.14		Plutonium-238	0.06	3.14
SU14-PRS153-004	2.69		Plutonium-238	0.08	2.69
SU14-PRS153-005	0.106		Plutonium-238	0.049	0.106

SU14 Pu-238

Standard Deviaiton	1.519
Max Result	3.140
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU14-PRS153-001	0.86		Thorium-232	0.02	0.86
SU14-PRS153-002	0.16		Thorium-232	0.026	0.16
SU14-PRS153-003	0.3		Thorium-232	0.03	0.3
SU14-PRS153-004	0.29		Thorium-232	0.05	0.29
SU14-PRS153-005	0.59		Thorium-232	0.05	0.59

SU14 Th-232

Standard Deviaiton	0.283
Max Result	0.860
Cleanup Objective	2.100
Hot Spot Criteria	3.500

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A107/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU15-PRS153-007	0.03	U	Actinium 227	0.45	0.03
SU15-PRS153-110	1.52	J	Actinium 227	0.54	1.52
SU15-PRS153-137	-0.11	U	Actinium 227	0.4	0.2
SU15-PRS153-138	0.13	U	Actinium 227	0.46	0.13
SU15-PRS153-139	0.03	U	Actinium 227	0.26	0.03
SU15-PRS153-140	-0.17	U	Actinium 227	0.61	0.305
SU15-PRS153-141	1.85	J	Actinium 227	0.46	1.85
SU15-PRS153-142	-0.06	U	Actinium 227	0.32	0.16
SU15-PRS153-189	1.09	J	Actinium 227	0.49	1.09
SU15-PRS153-190	2.32		Actinium 227	0.63	2.32
SU15-PRS153-191	0.13	U	Actinium 227	0.41	0.13
SU15-PRS153-192	0.02	U	Actinium 227	0.39	0.02
SU15-PRS153-193	0.34	U	Actinium 227	0.47	0.34
SU15-PRS153-194	1.6	J	Actinium 227	0.61	1.6
SU15-PRS153-195	0.26	U	Actinium 227	0.38	0.26
SU15-PRS153-196	1.71	J	Actinium 227	0.65	1.71
SU15-PRS153-197	0.18	U	Actinium 227	0.43	0.18
SU15-PRS153-198	0.11	U	Actinium 227	0.35	0.11
SU15-PRS153-199	-0.13	U	Actinium 227	0.39	0.195

SU15 Ac-227

Standard Deviaiton	0.762
Max Result	2.320
Cleanup Objective	4.600
Hot Spot Criteria	13.610

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU15-PRS153-007	-0.9	U	Lead 210	2.1	1.05
SU15-PRS153-110	0.4	U	Lead 210	1.9	0.4
SU15-PRS153-137	0.5	U	Lead 210	2	0.5
SU15-PRS153-138	0.4	U	Lead 210	2.2	0.4
SU15-PRS153-139	0.69	U	Lead 210	1.4	0.69
SU15-PRS153-140	0.7	U	Lead 210	3.8	0.7
SU15-PRS153-141	-0.07	U	Lead 210	1.6	0.8
SU15-PRS153-142	0.83	U	Lead 210	1.7	0.83
SU15-PRS153-189	1.1	U	Lead 210	2	1.1
SU15-PRS153-190	0.6	U	Lead 210	2.2	0.6
SU15-PRS153-191	-0.03	U	Lead 210	2.2	1.1
SU15-PRS153-192	0.1	U	Lead 210	2	0.1
SU15-PRS153-193	0.3	U	Lead 210	2.4	0.3
SU15-PRS153-194	0.9	U	Lead 210	2.2	0.9
SU15-PRS153-195	-0.03	U	Lead 210	2.1	1.05
SU15-PRS153-196	1	U	Lead 210	2.4	1
SU15-PRS153-197	-0.2	U	Lead 210	1.9	0.95
SU15-PRS153-198	1.2	U	Lead 210	2.2	1.2
SU15-PRS153-199	1	U	Lead 210	2	1

SU15 Pb-210

Standard Deviaiton	0.314
Max Result	1.200
Cleanup Objective	7.400
Hot Spot Criteria	19.800

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A108/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU15-PRS153-007	-1.8	U	Protactinium 231	1.8	0.9
SU15-PRS153-110	0.1	U	Protactinium 231	1.7	0.1
SU15-PRS153-137	-1.3	U	Protactinium 231	1.7	0.85
SU15-PRS153-138	-1.7	U	Protactinium 231	1.8	0.9
SU15-PRS153-139	-0.45	U	Protactinium 231	1.1	0.55
SU15-PRS153-140	-1.7	U	Protactinium 231	2.9	1.45
SU15-PRS153-141	1.02	U	Protactinium 231	1.4	1.02
SU15-PRS153-142	0.2	U	Protactinium 231	1.4	0.2
SU15-PRS153-189	1.18	U	Protactinium 231	1.6	1.18
SU15-PRS153-190	0.2	U	Protactinium 231	1.8	0.2
SU15-PRS153-191	-1.2	U	Protactinium 231	1.7	0.85
SU15-PRS153-192	-0.7	U	Protactinium 231	1.8	0.9
SU15-PRS153-193	-1.6	U	Protactinium 231	1.8	0.9
SU15-PRS153-194	1.1	U	Protactinium 231	1.8	1.1
SU15-PRS153-195	-0.8	U	Protactinium 231	1.8	0.9
SU15-PRS153-196	0.2	U	Protactinium 231	1.8	0.2
SU15-PRS153-197	-0.7	U	Protactinium 231	1.8	0.9
SU15-PRS153-198	-0.97	U	Protactinium 231	1.6	0.8
SU15-PRS153-199	-0.16	U	Protactinium 231	1.7	0.85

SU15 Pa-231

Standard Deviaiton	0.365
Max Result	1.180
Cleanup Objective	4.000
Hot Spot Criteria	11.810

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU15-PRS153-007	0.5	J	Radium (226)	0.36	0.5
SU15-PRS153-110	0.53	J	Radium (226)	0.14	0.53
SU15-PRS153-137	0.59	J	Radium (226)	0.37	0.59
SU15-PRS153-138	0.78	J	Radium (226)	0.4	0.78
SU15-PRS153-139	0.29	J	Radium (226)	0.23	0.29
SU15-PRS153-140	0.84	J	Radium (226)	0.27	0.84
SU15-PRS153-141	0.88	J	Radium (226)	0.12	0.88
SU15-PRS153-142	0.82	J	Radium (226)	0.12	0.82
SU15-PRS153-189	0.57	J	Radium (226)	0.15	0.57
SU15-PRS153-190	0.98	J	Radium (226)	0.15	0.98
SU15-PRS153-191	1.02	J	Radium (226)	0.14	1.02
SU15-PRS153-192	0.72	J	Radium (226)	0.34	0.72
SU15-PRS153-193	1	J	Radium (226)	0.18	1
SU15-PRS153-194	0.7	J	Radium (226)	0.31	0.7
SU15-PRS153-195	0.52	J	Radium (226)	0.37	0.52
SU15-PRS153-196	0.71	J	Radium (226)	0.15	0.71
SU15-PRS153-197	0.58	J	Radium (226)	0.35	0.58
SU15-PRS153-198	0.55	J	Radium (226)	0.15	0.55
SU15-PRS153-199	0.57	J	Radium (226)	0.32	0.57

SU15 Ra-226

Standard Deviaiton	0.197
Max Result	1.020
Cleanup Objective	2.900
Hot Spot Criteria	4.700

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A109/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU15-PRS153-007	1.17		Thorium-230	0.13	1.17
SU15-PRS153-110	0.85		Thorium-230	0.05	0.85
SU15-PRS153-137	0.85		Thorium-230	0.02	0.85
SU15-PRS153-138	1.1		Thorium-230	0.02	1.1
SU15-PRS153-139	1.27		Thorium-230	0.03	1.27
SU15-PRS153-140	1.03		Thorium-230	0.05	1.03
SU15-PRS153-141	0.92		Thorium-230	0.03	0.92
SU15-PRS153-142	0.88		Thorium-230	0.02	0.88
SU15-PRS153-189	1.06		Thorium-230	0.02	1.06
SU15-PRS153-190	0.98		Thorium-230	0.03	0.98
SU15-PRS153-191	2.05		Thorium-230	0.02	2.05
SU15-PRS153-192	1.76		Thorium-230	0.01	1.76
SU15-PRS153-193	1.09		Thorium-230	0.05	1.09
SU15-PRS153-194	0.79		Thorium-230	0.02	0.79
SU15-PRS153-195	0.84		Thorium-230	0.02	0.84
SU15-PRS153-196	1.06		Thorium-230	0.01	1.06
SU15-PRS153-197	0.84		Thorium-230	0.04	0.84
SU15-PRS153-198	0.72		Thorium-230	0.03	0.72
SU15-PRS153-199	0.92		Thorium-230	0.02	0.92

SU15 Th-230

Standard Deviaiton	**0.332**
Max Result	**2.050**
Cleanup Objective	**2.800**
Hot Spot Criteria	**4.600**

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU16-PRS153-200	0.407		Plutonium-238	0.028	0.407
SU16-PRS153-201	0.95		Plutonium-238	0.03	0.95
SU16-PRS153-202	0.55		Plutonium-238	0.02	0.55
SU16-PRS153-203	0.038		Plutonium-238	0.028	0.038
SU16-PRS153-204	1.55		Plutonium-238	0.03	1.55
SU16-PRS153-205	0.365		Plutonium-238	0.023	0.365
SU16-PRS153-206	0.033	J	Plutonium-238	0.019	0.033
SU16-PRS153-207	0.439		Plutonium-238	0.032	0.439
SU16-PRS153-208	0.09	J	Plutonium-238	0.018	0.09
SU16-PRS153-209	0.005	U	Plutonium-238	0.026	0.005
SU16-PRS153-210	0.147		Plutonium-238	0.027	0.147
SU16-PRS153-211	0.068	J	Plutonium-238	0.02	0.068
SU16-PRS153-212	0.093	J	Plutonium-238	0.018	0.093
SU16-PRS153-213	0.268		Plutonium-238	0.02	0.268
SU16-PRS153-214	0.333		Plutonium-238	0.031	0.333
SU16-PRS153-215	0.018	U	Plutonium-238	0.033	0.018

SU16 Pu-238

Standard Deviaiton	**0.411**
Max Result	**1.550**
Cleanup Objective	**55.000**
Hot Spot Criteria	**165.000**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A110/164

COC VERIFICATION RESULTS

pCi/g unless otherwise noted

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU16-PRS153-200	0.97		Thorium-230	0.07	0.97
SU16-PRS153-201	0.95		Thorium-230	0.02	0.95
SU16-PRS153-202	1.6		Thorium-230	0.03	1.6
SU16-PRS153-203	1.64		Thorium-230	0.03	1.64
SU16-PRS153-204	0.99		Thorium-230	0.03	0.99
SU16-PRS153-205	0.94		Thorium-230	0.02	0.94
SU16-PRS153-206	1.07		Thorium-230	0.03	1.07
SU16-PRS153-207	1.2		Thorium-230	0.01	1.2
SU16-PRS153-208	1.17		Thorium-230	0.03	1.17
SU16-PRS153-209	1.06		Thorium-230	0.02	1.06
SU16-PRS153-210	0.74		Thorium-230	0.03	0.74
SU16-PRS153-211	1.18		Thorium-230	0.06	1.18
SU16-PRS153-212	1.02		Thorium-230	0.04	1.02
SU16-PRS153-213	0.78		Thorium-230	0.02	0.78
SU16-PRS153-214	**3.08**		**Thorium-230**	**0.03**	**3.08**
SU16-PRS153-215	1.58		Thorium-230	0.03	1.58

SU16 Th-230

Standard Deviaiton	**0.559**
Max Result	**3.080**
Cleanup Objective	**2.800**
Hot Spot Criteria	**4.600**

SU16-PRS153-200	1.25		Thorium-232	0.04	1.25
SU16-PRS153-201	1.21		Thorium-232	0.01	1.21
SU16-PRS153-202	1.02		Thorium-232	0.03	1.02
SU16-PRS153-203	0.69		Thorium-232	0.01	0.69
SU16-PRS153-204	1.09		Thorium-232	0.03	1.09
SU16-PRS153-205	0.94		Thorium-232	0.02	0.94
SU16-PRS153-206	1.15		Thorium-232	0.02	1.15
SU16-PRS153-207	1.24		Thorium-232	0.02	1.24
SU16-PRS153-208	1.26		Thorium-232	0.02	1.26
SU16-PRS153-209	1.17		Thorium-232	0.03	1.17
SU16-PRS153-210	0.88		Thorium-232	0.01	0.88
SU16-PRS153-211	0.72		Thorium-232	0.04	0.72
SU16-PRS153-212	1.19		Thorium-232	0.03	1.19
SU16-PRS153-213	0.99		Thorium-232	0.02	0.99
SU16-PRS153-214	0.61		Thorium-232	0.03	0.61
SU16-PRS153-215	0.74		Thorium-232	0.04	0.74

SU16 Th-232

Standard Deviaiton	**0.222**
Max Result	**1.260**
Cleanup Objective	**2.100**
Hot Spot Criteria	**3.500**

MDA: minimum detectable activity
U: not detected J: estimated

EXHIBIT 2

A111/164

Recalculation of N for SU1

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
0.08	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05	
$Z_{1\text{-alpha}}$	1.645	
Type II Error	0.2	
$Z_{1\text{-beta}}$	0.842	
Effective	0.08	*(s)*
Sign p	0.977250	

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.80
Delta	0.20
(s)	0.08
Rel Shift	2.500
(N)	9.00

Sample Grid Spacing

SU Area	45.57	m^2
Grid Length	2.1	m
Grid Height	1.8	m

Sample Grid Spacing

SU Area	490	ft^2
Grid Length	6.9	ft
Grid Height	5.9	ft

PRSs: north of PRS 154

Survey Unit: 1

EXHIBIT 3

A112/164

Recalculation of N for SU2

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
1.084	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
0.222	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	112	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.11	*(s)*	
Sign p	0.964070		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.80
Delta	0.20
(s)	0.11
Rel Shift	1.860
(N)	9.00

Pu-238 Area Factor (N) 13

Sample Grid Spacing

SU Area	22.97	m^2
Grid Length	1.5	m
Grid Height	1.3	m

Sample Grid Spacing

SU Area	247	ft^2
Grid Length	4.9	ft
Grid Height	4.2	ft

PRSs 405 Survey Unit 2

4/17/06 10:11 AM

EXHIBIT 3

4/13/164

Recalculation of N for SU3

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.256	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.554	Th-230+D	2.8	(pCi/g)
0.387	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
Effective	0.27 (s)
Sign p	0.864334

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.27
Rel Shift	1.109
(N)	15.00

Pu-238 Area Factor (N) 252

Sample Grid Spacing

SU Area	435.71	m^2
Grid Length	5.0	m
Grid Height	4.3	m

Sample Grid Spacing

SU Area	4685	ft^2
Grid Length	16.5	ft
Grid Height	14.2	ft

PRSs: Bldg 23 footprint

Survey Unit: 3

EXHIBIT 3

A114/164

4/17/06 10:22 AM

Recalculation of N for SU4

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.341	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
0.088	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
0.173	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
0.061	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
Effective	0.09 (s)
Sign p	0.977250

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.80
Delta	0.20
(s)	0.09
Rel Shift	2.167
(N)	9.00

Pu-238 Area Factor (N) 37

Sample Grid Spacing

SU Area	63.33	m^2
Grid Length	2.5	m
Grid Height	2.1	m

Sample Grid Spacing

SU Area	681	ft^2
Grid Length	8.1	ft
Grid Height	7.0	ft

PRSs 240 Survey Unit 4

4/17/06 10:24 AM

EXHIBIT 3

A115/164

Recalculation of N for SU5/6

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
0.518	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
0.147	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.537	Th-230+D	2.8	(pCi/g)
0.187	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
0.129	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
Effective	0.25 (s)
Sign p	0.864334

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.25
Rel Shift	1.191
(N)	15.00

Sample Grid Spacing

SU Area	825.93	m^2
Grid Length	6.9	m
Grid Height	6.0	m

Sample Grid Spacing

SU Area	8881	ft^2
Grid Length	22.7	ft
Grid Height	19.6	ft

PRSs: 154 & 238

Survey Unit: 5&6

EXHIBIT 3

A116/164

Recalculation of N for SU10

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.61	Th-230+D	2.8	(pCi/g)
	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
Effective	0.61 *(s)*
Sign p	0.864334

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.30
Delta	0.70
(s)	0.61
Rel Shift	1.148
(N)	15.00

Sample Grid Spacing

SU Area	301.23	m^2
Grid Length	4.2	m
Grid Height	3.6	m

Sample Grid Spacing

SU Area	3239	ft^2
Grid Length	13.7	ft
Grid Height	11.8	ft

PRSs: 154, Bldg 125/79 footprints

Survey Unit: 10

4/17/06 10:45 AM

EXHIBIT 3

A-117/164

Recalculation of N for SU13

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.257	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05
$Z_{1\text{-alpha}}$	1.645
Type II Error	0.2
$Z_{1\text{-beta}}$	0.842
Effective	0.26 (s)
Sign p	0.864334

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.26
Rel Shift	1.167
(N)	15.00

Pu-238 Area Factor (N) 55

Sample Grid Spacing

SU Area	95.33	m^2
Grid Length	2.3	m
Grid Height	2.0	m

Sample Grid Spacing

SU Area	1025	ft^2
Grid Length	7.7	ft
Grid Height	6.7	ft

PRSs 154 Survey Unit 13

EXHIBIT 3

A118/194

Recalculation of N for SU14

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
0.02	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
1.519	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
0.283	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.14	(s)	
Sign p	0.977250		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.14
Rel Shift	2.179
(N)	9.00

Pu-238 Area Factor (N) 27

Sample Grid Spacing

SU Area	46.50	m^2
Grid Length	2.1	m
Grid Height	1.8	m

Sample Grid Spacing

SU Area	500	ft^2
Grid Length	6.9	ft
Grid Height	6.0	ft

PRSs: east of PRS 153

Survey Unit: 14

4/17/06 10:38 AM

EXHIBIT 3

A119/164

Recalculation of N for SU15

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
0.762	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
0.314	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
0.365	Pa-231+D	4	(pCi/g)
0.197	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.332	Th-230+D	2.8	(pCi/g)
	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05	
$Z_{1\text{-alpha}}$	1.645	
Type II Error	0.2	
$Z_{1\text{-beta}}$	0.842	
Effective	0.24	*(s)*
Sign p	0.977250	

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.24
Rel Shift	2.108
(N)	9.00

Sample Grid Spacing

SU Area	276.95	m^2
Grid Length	5.2	m
Grid Height	4.5	m

Sample Grid Spacing

SU Area	2978	ft^2
Grid Length	16.9	ft
Grid Height	14.7	ft

PRSs 154 Survey Unit 15

4/17/06 10:49 AM

EXHIBIT 3

A129/164

Recalculation of N for SU16

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.411	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.559	Th-230+D	2.8	(pCi/g)
0.222	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.23	*(s)*	
Sign p	0.903199		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.23
Rel Shift	1.327
(N)	12.00

Pu-238 Area Factor (N) 213

Sample Grid Spacing

SU Area	368.47	m^2
Grid Length	5.2	m
Grid Height	4.5	m

Sample Grid Spacing

SU Area	3962	ft^2
Grid Length	16.9	ft
Grid Height	14.7	ft

PRSs west of PRS 154

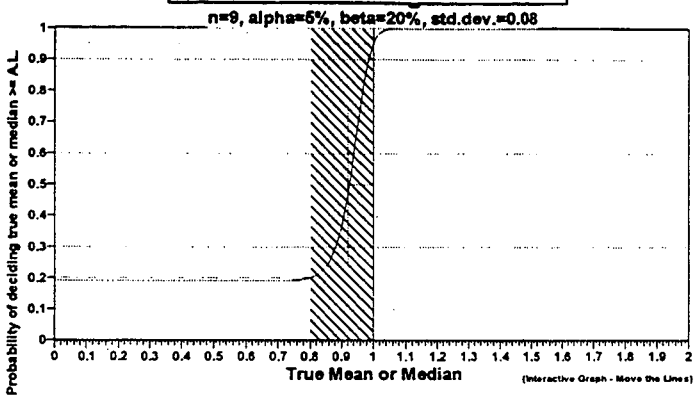
Survey Unit 16

4/17/06 10:36 AM

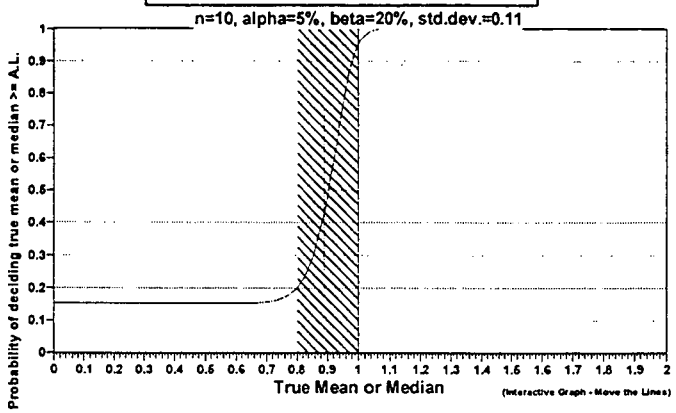
EXHIBIT 3

A121/169

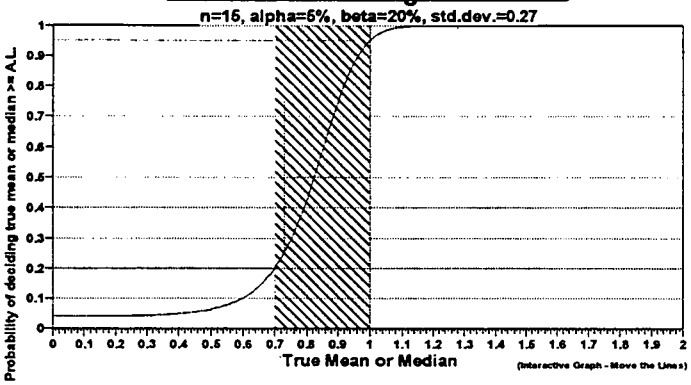
SU1 Power Curve



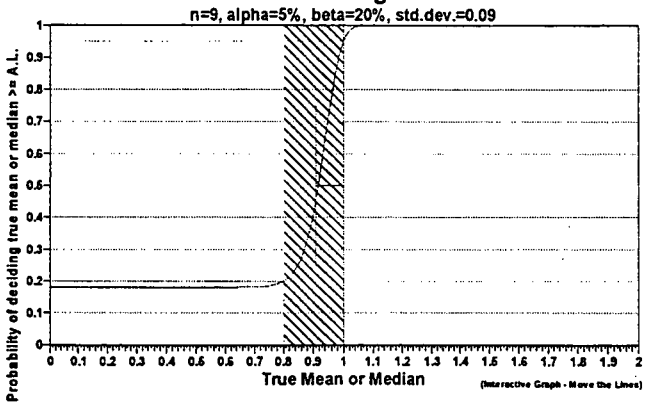
SU2 Power Curve



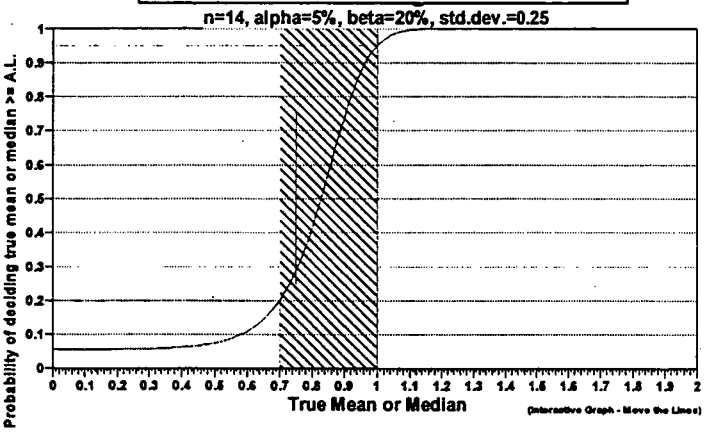
SU3 Power Curve



SU4 Power Curve



SU5/6 Power Curve



SU10 Power Curve

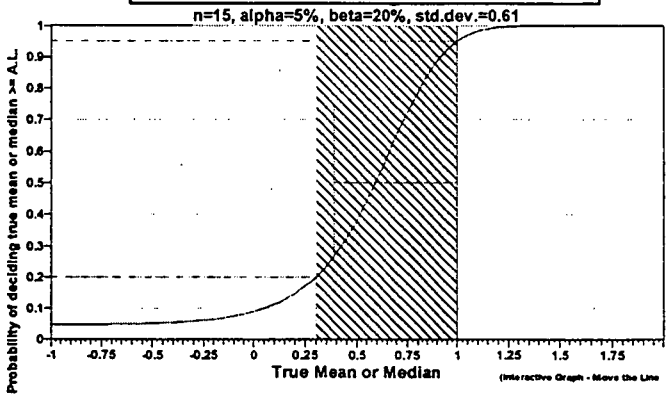
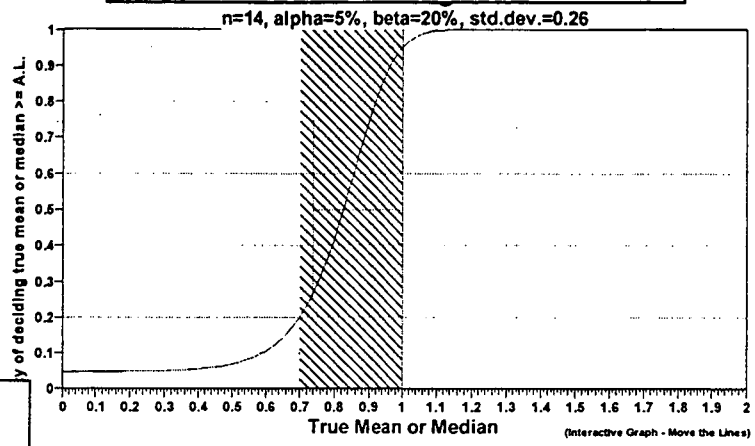
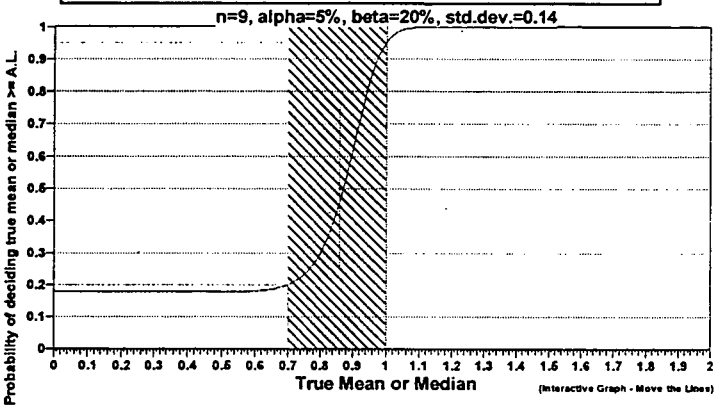


EXHIBIT 3
A122/164

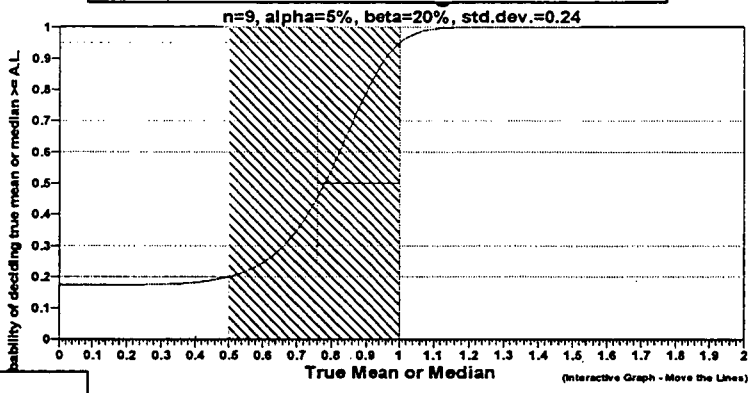
SU13 Power Curve



SU14 Power Curve



SU15 Power Curve



SU16 Power Curve

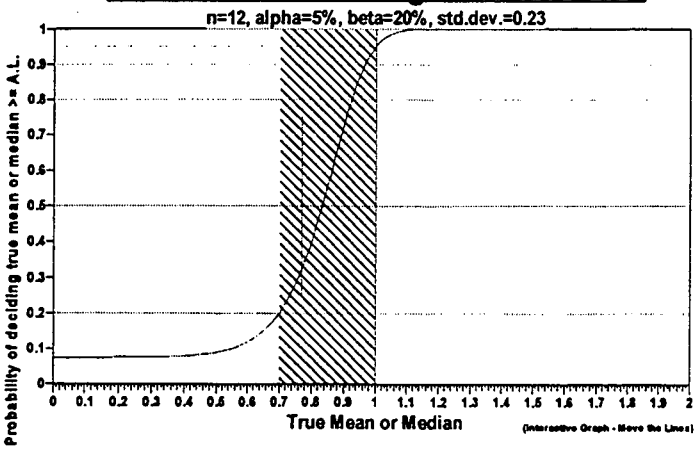


EXHIBIT 3A123/164

Sign Test for Th-230 at SU3

PRS 153 Sample ID	Survey Unit	Sample Depth (ft)	Max probe depth (ft) bgs	Offsite analysis (pCi/g) Th-230 result	Th-230 MDA	Sign Test
SU03-PRS153-039	SU3	surface		1.31	0.03	+
SU03-PRS153-040	SU3	surface		0.72	0.02	+
SU03-PRS153-041	SU3	surface		1.09	0.02	+
SU03-PRS153-042	SU3	surface		1.72	0.03	+
SU03-PRS153-043	SU3	surface		**3.03**	**0.03**	-
SU03-PRS153-047	SU3	surface		0.9	0.02	+
SU03-PRS153-048	SU3	surface		0.88	0.03	+
SU03-PRS153-049	SU3	surface		1.33	0.05	+
SU03-PRS153-050	SU3	surface		0.79	0.03	+
SU03-PRS153-051	SU3	surface		1.04	0.03	+
SU03-PRS153-052	SU3	surface		1.61	0.01	+
SU03-PRS153-057	SU3	surface		1.17	0.01	+
SU03-PRS153-058	SU3	surface		2.09	0.01	+
SU03-PRS153-059	SU3	surface		0.92	0.03	+
SU03-PRS153-060	SU3	surface		0.72	0.02	+
SU03-PRS153-061	SU3	surface		1.14	0.07	+
SU03-PRS153-188	SU3	surface		1.09	0.04	+
SU03-PRS153-216	SU3	surface		0.96	0.03	+
SU03-PRS153-217	SU3	surface		0.65	0.03	+
SU03-PRS153-218	SU3	surface		1.46	0.03	+
SU03-PRS153-219	SU3	surface		0.68	0.06	+

CO	2.8	**Sum:**	**20**
Hot Spot	4.6	**k Crit**	15
Max Obs	3.030	from Table I.3 MARSSIM	
Mean	1.205		
Standard Deviation	0.5595	P/F	**PASS**
Number of Samples	21		

EXHIBIT 4

A124/164

Sign Test for Th-230 at SU5/6

PRS 153 Sample ID	Survey Unit	Sample Depth (ft)	Max probe depth (ft) bgs	Offsite analysis (pCi/g) Th-230 result	Th-230 MDA	Sign Test
SU5/6-PRS153-068	SU5/6	surface		0.9	0.03	+
SU5/6-PRS153-069	SU5/6	surface		1.28	0.06	+
SU5/6-PRS153-070	SU5/6	surface		1.06	0.05	+
SU5/6-PRS153-071	SU5/6	surface		1.71	0.03	+
SU5/6-PRS153-072	SU5/6	surface		1.43	0.01	+
SU5/6-PRS153-073	SU5/6	surface		1.98	0.02	+
SU5/6-PRS153-074	SU5/6	surface		1.61	0.01	+
SU5/6-PRS153-075	SU5/6	surface		2.6	0.03	+
SU5/6-PRS153-076	SU5/6	surface		0.95	0.02	+
SU5/6-PRS153-077	SU5/6	surface		0.85	0.04	+
SU5/6-PRS153-078	SU5/6	surface		1.43	0.04	+
SU5/6-PRS153-079	SU5/6	surface		0.84	0.03	+
SU5/6-PRS153-080	SU5/6	surface		0.88	0.03	+
SU5/6-PRS153-081	SU5/6	surface		0.76	0.01	+
SU5/6-PRS153-082	SU5/6	surface		1.28	0.03	+
SU5/6-PRS153-083	SU5/6	surface		1.7	0.04	+
SU5/6-PRS153-084	SU5/6	surface		0.98	0.02	+
SU5/6-PRS153-085	SU5/6	surface		**3.86**	**0.06**	-
SU5/6-PRS153-086	SU5/6	surface		0.86	0.02	+
SU5/6-PRS153-087	SU5/6	surface		0.94	0.03	+
SU5/6-PRS153-088	SU5/6	surface		1.09	0.03	+
SU5/6-PRS153-089	SU5/6	surface		0.91	0.01	+
SU5/6-PRS153-090	SU5/6	surface		0.88	0.03	+
SU5/6-PRS153-091	SU5/6	surface		0.95	0.05	+
SU5/6-PRS153-092	SU5/6	surface		0.95	0.03	+
SU5/6-PRS153-093	SU5/6	surface		0.91	0.03	+
SU5/6-PRS153-094	SU5/6	surface		1.74	0.02	+
SU5/6-PRS153-095	SU5/6	surface		0.95	0.02	+
SU5/6-PRS153-096	SU5/6	surface		1.08	0.03	+
SU5/6-PRS153-097	SU5/6	surface		1.23	0.05	+
SU5/6-PRS153-098	SU5/6	surface		1.11	0.03	+
SU5/6-PRS153-099	SU5/6	surface		0.93	0.03	+
SU5/6-PRS153-100	SU5/6	surface		1.43	0.04	+
SU5/6-PRS153-101	SU5/6	surface		0.9	0.03	+
SU5/6-PRS153-102	SU5/6	surface		1.15	0.05	+
SU5/6-PRS153-103	SU5/6	surface		0.92	0.03	+
SU5/6-PRS153-104	SU5/6	surface		0.91	0.04	+
SU5/6-PRS153-105	SU5/6	surface		0.85	0.03	+
SU5/6-PRS153-106	SU5/6	surface		1.14	0.05	+
SU5/6-PRS153-107	SU5/6	surface		1.06	0.02	+
SU5/6-PRS153-108	SU5/6	surface		1.05	0.03	+
SU5/6-PRS153-109	SU5/6	surface		0.95	0.03	+
SU5/6-PRS153-111	SU5/6	surface		1.17	0.03	+
SU5/6-PRS153-112	SU5/6	surface		1.07	0.01	+
SU5/6-PRS153-113	SU5/6	surface		0.84	0.03	+
SU5/6-PRS153-114	SU5/6	surface		1.06	0.05	+

CO	2.8	**Sum:**	**45**
Hot Spot	4.6	**k Crit**	29
Max Obs	3.860	from Table I.3 MARSSIM	
Mean	1.198		
Standard Deviation	0.5366	P/F	**PASS**
Number of Samples	46		

EXHIBIT 4

A125/164

Sign Test for Th-230 at SU16

PRS 153 Sample ID	Survey Unit	Sample Depth (ft)	Max probe depth (ft) bgs	Offsite analysis (pCi/g) Th-230 result	Th-230 MDA	Sign Test
SU16-PRS153-200	SU16	surface		0.97	0.07	+
SU16-PRS153-201	SU16	surface		0.95	0.02	+
SU16-PRS153-202	SU16	surface		1.6	0.03	+
SU16-PRS153-203	SU16	surface		1.64	0.03	+
SU16-PRS153-204	SU16	surface		0.99	0.03	+
SU16-PRS153-205	SU16	surface		0.94	0.02	+
SU16-PRS153-206	SU16	surface		1.07	0.03	+
SU16-PRS153-207	SU16	surface		1.2	0.01	+
SU16-PRS153-208	SU16	surface		1.17	0.03	+
SU16-PRS153-209	SU16	surface		1.06	0.02	+
SU16-PRS153-210	SU16	surface		0.74	0.03	+
SU16-PRS153-211	SU16	surface		1.18	0.06	+
SU16-PRS153-212	SU16	surface		1.02	0.04	+
SU16-PRS153-213	SU16	surface		0.78	0.02	+
SU16-PRS153-214	SU16	surface		**3.08**	**0.03**	-
SU16-PRS153-215	SU16	surface		1.58	0.03	+

CO	2.8	**Sum:**	**15**
Hot Spot	4.6	**k Crit**	12
Max Obs	3.080	from Table I.3 MARSSIM	
Mean	1.248		
Standard Deviation	0.5586	P/F	**PASS**
Number of Samples	16		

EXHIBIT 4

A126/164

95% UCL for Th-230 at SU3

Data File		Variable:	1.31
Raw Statistics		Normal Distribution Test	
Number of Valid Samples	21	Shapiro-Wilk Test Statisitic	0.812651
Number of Unique Samples	19	Shapiro-Wilk 5% Critical Value	0.908
Minimum	0.65	Data not normal at 5% significance level	
Maximum	3.03		
Mean	1.204762	95% UCL (Assuming Normal Distribution)	
Median	1.09	Student's-t UCL	1.415326
Standard Deviation	0.55947		
Variance	0.313006	Gamma Distribution Test	
Coefficient of Variation	0.464382	A-D Test Statistic	0.506402
Skewness	1.980257	A-D 5% Critical Value	0.744555
		K-S Test Statistic	0.143267
Gamma Statistics		K-S 5% Critical Value	0.189824
k hat	6.408496	Data follow gamma distribution	
k star (bias corrected)	5.524743	at 5% significance level	
Theta hat	0.187994		
Theta star	0.218067	95% UCLs (Assuming Gamma Distribution)	
nu hat	269.1568	Approximate Gamma UCL	1.413514
nu star	232.0392	Adjusted Gamma UCL	1.431081
Approx.Chi Square Value (.05)	197.771		
Adjusted Level of Significance	0.0383	Lognormal Distribution Test	
Adjusted Chi Square Value	195.3432	Shapiro-Wilk Test Statisitic	0.949105
		Shapiro-Wilk 5% Critical Value	0.908
Log-transformed Statistics		Data are lognormal at 5% significance level	
Minimum of log data	-0.43078		
Maximum of log data	1.108563	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	0.106236	95% H-UCL	1.416807
Standard Deviation of log data	0.390747	95% Chebyshev (MVUE) UCL	1.65059
Variance of log data	0.152683	97.5% Chebyshev (MVUE) UCL	1.847436
		99% Chebyshev (MVUE) UCL	2.234102
		95% Non-parametric UCLs	
		CLT UCL	1.405576
Data follow gamma distribution (0.05)		Adj-CLT UCL (Adjusted for skewness)	1.461947
RECOMMENDATION		Mod-t UCL (Adjusted for skewness)	1.424119
Use Approximate Gamma UCL		Jackknife UCL	1.415326
		Standard Bootstrap UCL	1.397606
		Bootstrap-t UCL	1.514713
Therefore, the 95% UCL		Hall's Bootstrap UCL	1.682701
		Percentile Bootstrap UCL	1.408095
PASSES		BCA Bootstrap UCL	1.495714
		95% Chebyshev (Mean, Sd) UCL	1.736924
when compared to the cleanup objective		97.5% Chebyshev (Mean, Sd) UCL	1.96719
of 2.8 pCi/g		99% Chebyshev (Mean, Sd) UCL	2.419505

EXHIBIT 4

A127/164

95% UCL for Th-230 at SU5/6

Data File		Variable:	0.9
Raw Statistics		Normal Distribution Test	
Number of Valid Samples	46	Shapiro-Wilk Test Statisitic	0.647926
Number of Unique Samples	31	Shapiro-Wilk 5% Critical Value	0.945
Minimum	0.76	Data not normal at 5% significance level	
Maximum	3.86		
Mean	1.198478	95% UCL (Assuming Normal Distribution)	
Median	1.055	Student	1.331345
Standard Deviation	0.536577		
Variance	0.287915	Gamma Distribution Test	
Coefficient of Variation	0.447716	A-D Test Statistic	3.141666
Skewness	3.302112	A-D 5% Critical Value	0.75021
		K-S Test Statistic	0.198582
Gamma Statistics		K-S 5% Critical Value	0.130551
k hat	8.306422	Data do not follow gamma distribution	
k star (bias corrected)	7.779192	at 5% significance level	
Theta hat	0.144283		
Theta star	0.154062	95% UCLs (Assuming Gamma Distribution)	
nu hat	764.1909	Approximate Gamma UCL	1.310317
nu star	715.6857	Adjusted Gamma UCL	1.314096
Approx.Chi Square Value (.05)	654.6		
Adjusted Level of Significance	0.044783	Lognormal Distribution Test	
Adjusted Chi Square Value	652.7177	Shapiro-Wilk Test Statisitic	0.825925
		Shapiro-Wilk 5% Critical Value	0.945
Log-transformed Statistics		Data not lognormal at 5% significance level	
Minimum of log data	-0.27444		
Maximum of log data	1.350667	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	0.119652	95% H-UCL	1.291791
Standard Deviation of log data	0.320502	95% Chebyshev (MVUE) UCL	1.434341
Variance of log data	0.102722	97.5% Chebyshev (MVUE) UCL	1.54218
		99% Chebyshev (MVUE) UCL	1.754009
		95% Non-parametric UCLs	
		CLT UCL	1.328609
Data are Non-parametric (0.05)		Adj-CLT UCL (Adjusted for skewness)	1.369767
		Mod-t U	1.337764
RECOMMENDATION		Jackknife UCL	1.331345
		Standard Bootstrap UCL	1.325686
Use Student's-t UCL or Modified-t UCL		Bootstrap-t UCL	1.414791
		Hall's Bootstrap UCL	1.840998
Therefore, the 95% UCL		Percentile Bootstrap UCL	1.333261
		BCA Bootstrap UCL	1.384348
PASSES		95% Chebyshev (Mean, Sd) UCL	1.543328
		97.5% Chebyshev (Mean, Sd) UCL	1.692545
when compared to the cleanup objective		99% Chebyshev (Mean, Sd) UCL	1.985653
of 2.8 pCi/g			

EXHIBIT 4

A128/164

95% UCL for Th-230 at SU16

Data File		Variable:	0.97
Raw Statistics		Normal Distribution Test	
Number of Valid Samples	16	Shapiro-Wilk Test Statisitic	0.704615
Number of Unique Samples	16	Shapiro-Wilk 5% Critical Value	0.887
Minimum	0.74	Data not normal at 5% significance level	
Maximum	3.08		
Mean	1.248125	95% UCL (Assuming Normal Distribution)	
Median	1.065	Student's-t UCL	1.492942
Standard Deviation	0.558608		
Variance	0.312043	Gamma Distribution Test	
Coefficient of Variation	0.447558	A-D Test Statistic	0.98209
Skewness	2.59388	A-D 5% Critical Value	0.740038
		K-S Test Statistic	0.245433
Gamma Statistics		K-S 5% Critical Value	0.215431
k hat	7.768194	Data do not follow gamma distribution	
k star (bias corrected)	6.353325	at 5% significance level	
Theta hat	0.160671		
Theta star	0.196452	95% UCLs (Assuming Gamma Distribution)	
nu hat	248.5822	Approximate Gamma UCL	1.481266
nu star	203.3064	Adjusted Gamma UCL	1.510741
Approx.Chi Square Value (.05)	171.3074		
Adjusted Level of Significance	0.03348	Lognormal Distribution Test	
Adjusted Chi Square Value	167.9651	Shapiro-Wilk Test Statisitic	0.872567
		Shapiro-Wilk 5% Critical Value	0.887
Log-transformed Statistics		Data not lognormal at 5% significance level	
Minimum of log data	-0.30111		
Maximum of log data	1.12493	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	0.155899	95% H-UCL	1.472959
Standard Deviation of log data	0.346891	95% Chebyshev (MVUE) UCL	1.711063
Variance of log data	0.120333	97.5% Chebyshev (MVUE) UCL	1.916496
		99% Chebyshev (MVUE) UCL	2.320028
		95% Non-parametric UCLs	
Data are Non-parametric (0.05)		CLT UCL	1.477832
		Adj-CLT UCL (Adjusted for skewness)	1.574597
RECOMMENDATION		Mod-t UCL (Adjusted for skewness)	1.508035
		Jackknife UCL	1.492942
Use Student's-t UCL or Modified-t UCL		Standard Bootstrap UCL	1.470883
		Bootstrap-t UCL	1.748373
Therefore, the 95% UCL		Hall's Bootstrap UCL	2.416421
		Percentile Bootstrap UCL	1.4975
PASSES		BCA Bootstrap UCL	1.58
		95% Chebyshev (Mean, Sd) UCL	1.856854
when compared to the cleanup objective		97.5% Chebyshev (Mean, Sd) UCL	2.120251
of 2.8 pCi/g		99% Chebyshev (Mean, Sd) UCL	2.637645

EXHIBIT 4

A 129/164

STD VSAP BACKFILL INFO

This information will be represented in the Data Report.

For: UGL PARTIAL IV (PRS 153+) EAST

Checklist:

(per Section 5.6 of Std VSAP, Final, Aug 04)

- ☑ final Graphic EXHIBIT 1
  (show sample locations & note any >CO and/or >HS)
- ☑ COC sample results SUs 7-9 : Pu238, Th230, Th232 SU 11: Co60, Cs137, Bi207, SU12: Th
  (show DLs, HS, COs, and COC std deviation(s)) & bounding results EXHIBIT 2
- ☑ recalc of N & retro curve EXHIBIT 3
- ☑ preliminary data were reviewed
  (Data Review & Validation Report will be submitted with the Data Report)
- ☑ Sign test & 95%UCL (per SU) EXHIBIT 4
  (not required if all results <CO, see pg 19/21 of VSAP)
- ☑ backfill is planned to begin on 11 May 06

From: (sign/date) 4 May 06

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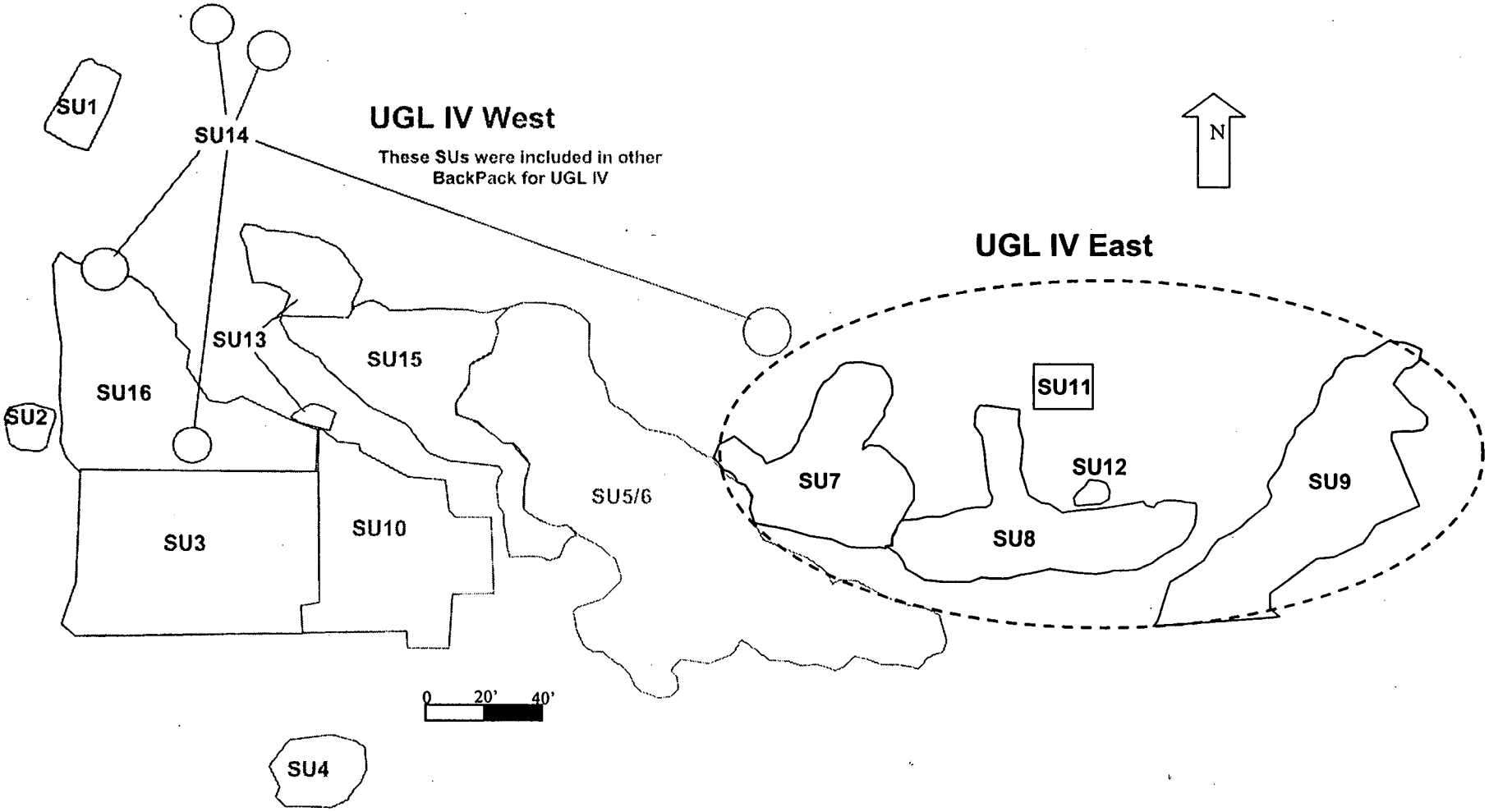

FIGURE 1: SU OVERVIEW

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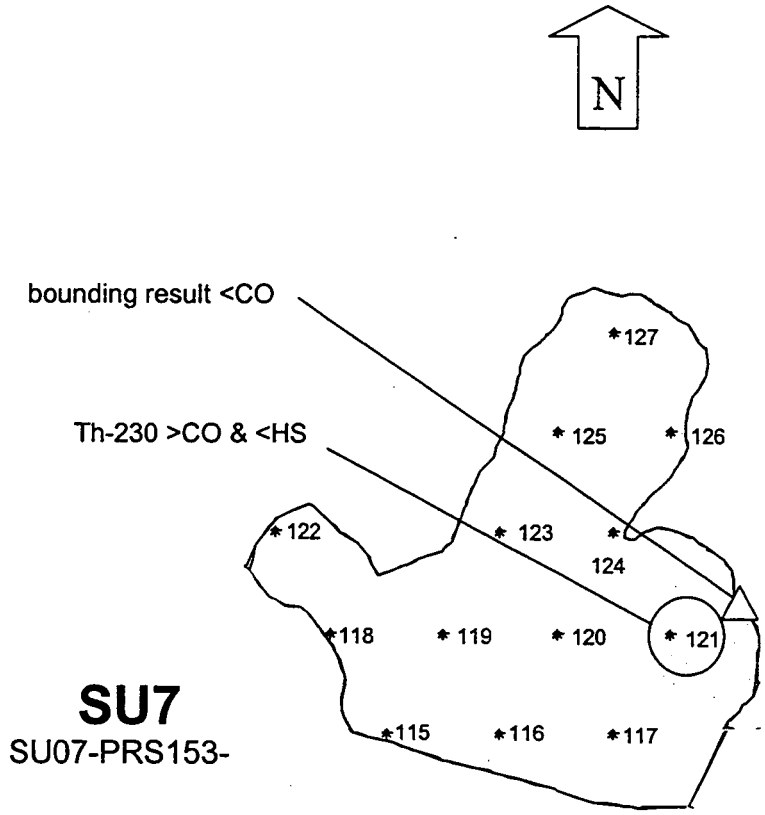

FIGURE 2: SU7 VERIFICATION LOCATIONS

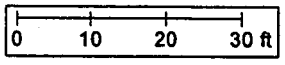

EXHIBIT 1

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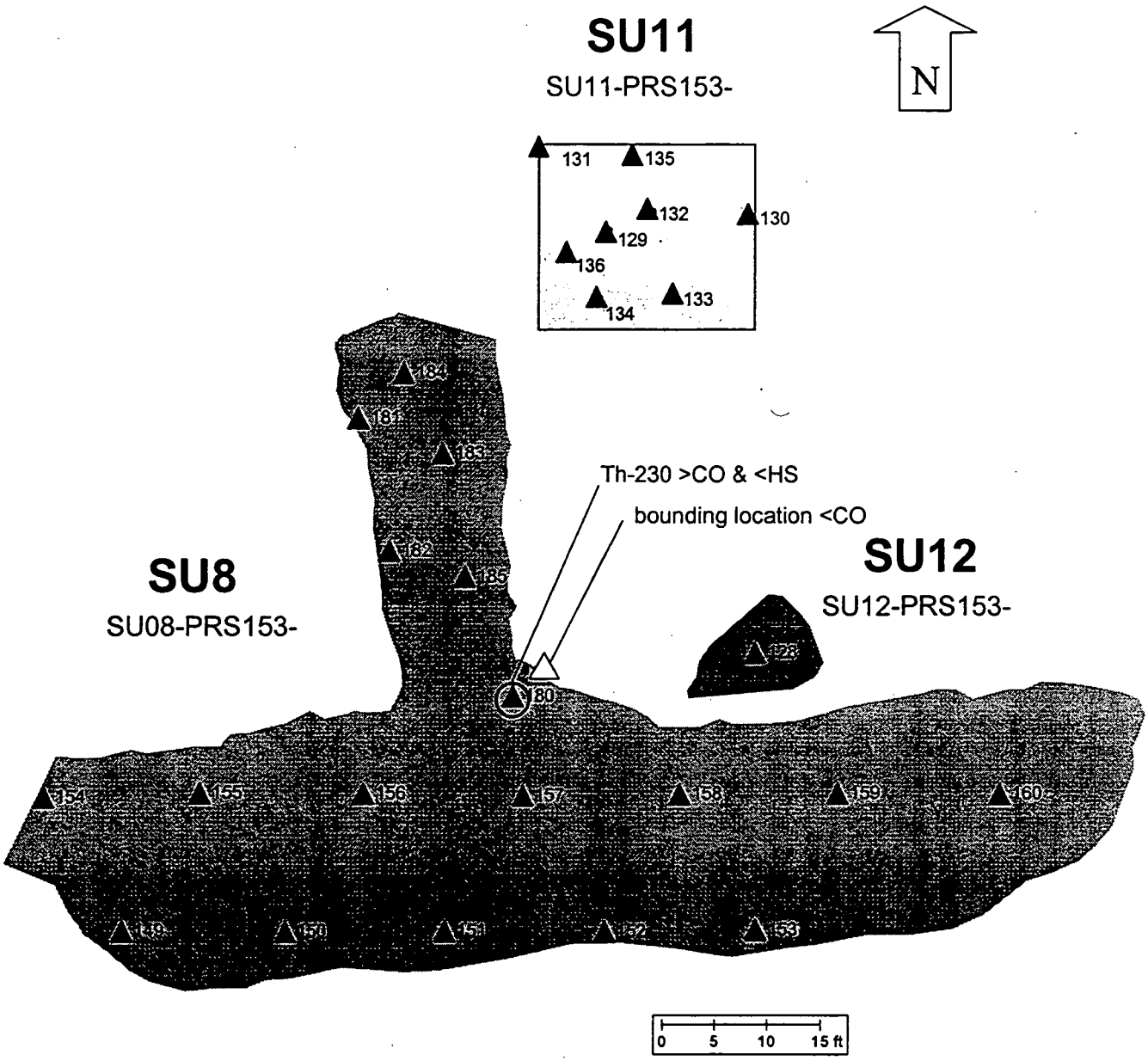

FIGURE 3: SUs 8, 11, & 12 VERIFICATION LOCATIONS

EXHIBIT 1
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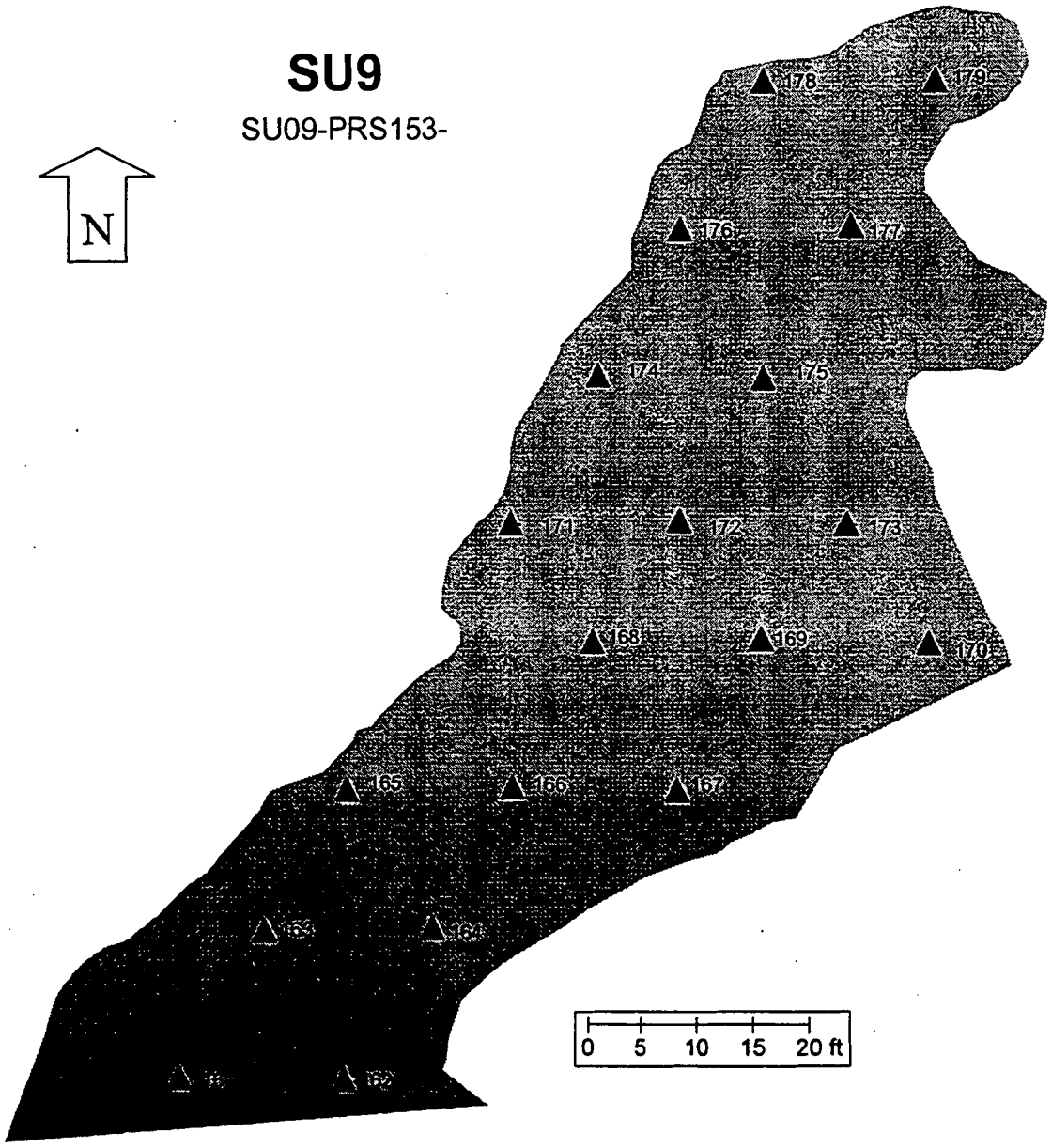

FIGURE 4: SU9 VERIFICATION LOCATIONS

EXHIBIT 1
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COC VERIFICATION RESULTS
(pCi/g)

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU07-PRS153-115	0.19		Plutonium-238	0.06	0.19
SU07-PRS153-116	0.218		Plutonium-238	0.049	0.218
SU07-PRS153-117	0.069	J	Plutonium-238	0.065	0.069
SU07-PRS153-118	0.062	U	Plutonium-238	0.082	0.062
SU07-PRS153-119	0.076	J	Plutonium-238	0.063	0.076
SU07-PRS153-120	0.091	J	Plutonium-238	0.064	0.091
SU07-PRS153-121	0.43		Plutonium-238	0.08	0.43
SU07-PRS153-122	0.8		Plutonium-238	0.1	0.8
SU07-PRS153-123	0.019	U	Plutonium-238	0.088	0.019
SU07-PRS153-124	0.074	J	Plutonium-238	0.068	0.074
SU07-PRS153-125	0.04	U	Plutonium-238	0.054	0.04
SU07-PRS153-126	0.141		Plutonium-238	0.067	0.141
SU07-PRS153-127	-0.001	U	Plutonium-238	0.068	0.034

SU7 Pu-238

Standard Deviaiton	0.218
Max Result	0.800
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU07-PRS153-115	1.74		Thorium-230	0.03	1.74
SU07-PRS153-116	2.35		Thorium-230	0.03	2.35
SU07-PRS153-117	1.3		Thorium-230	0.05	1.3
SU07-PRS153-118	1.53		Thorium-230	0.04	1.53
SU07-PRS153-119	0.97		Thorium-230	0.06	0.97
SU07-PRS153-120	1.52		Thorium-230	0.05	1.52
SU07-PRS153-121	**3.02**		**Thorium-230**	**0.06**	**3.02**
SU07-PRS153-122	0.99		Thorium-230	0.03	0.99
SU07-PRS153-123	1.23		Thorium-230	0.03	1.23
SU07-PRS153-124	1.87		Thorium-230	0.05	1.87
SU07-PRS153-125	1.7		Thorium-230	0.04	1.7
SU07-PRS153-126	1.34		Thorium-230	0.03	1.34
SU07-PRS153-127	1.19		Thorium-230	0.03	1.19

SU7 Th-230

Standard Deviaiton	0.572
Max Result	3.020
Cleanup Objective	2.800
Hot Spot Criteria	4.600

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU07-PRS153-115	1.05		Thorium-232	0.03	1.05
SU07-PRS153-116	1.09		Thorium-232	0.05	1.09
SU07-PRS153-117	1.07		Thorium-232	0.03	1.07
SU07-PRS153-118	0.84		Thorium-232	0.03	0.84
SU07-PRS153-119	0.92		Thorium-232	0.03	0.92
SU07-PRS153-120	0.75		Thorium-232	0.06	0.75
SU07-PRS153-121	0.88		Thorium-232	0.05	0.88
SU07-PRS153-122	0.98		Thorium-232	0.04	0.98
SU07-PRS153-123	0.81		Thorium-232	0.14	0.81
SU07-PRS153-124	0.92		Thorium-232	0.05	0.92
SU07-PRS153-125	0.89		Thorium-232	0.04	0.89
SU07-PRS153-126	0.89		Thorium-232	0.05	0.89
SU07-PRS153-127	0.95		Thorium-232	0.07	0.95

SU7 Th-232

Standard Deviaiton	0.101
Max Result	1.090
Cleanup Objective	2.100
Hot Spot Criteria	3.500

EXHIBIT 2
A135/164

COC VERIFICATION RESULTS
(pCi/g)

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU08-PRS153-149	0.25		Plutonium-238	0.08	0.25
SU08-PRS153-150	0.36		Plutonium-238	0.09	0.36
SU08-PRS153-151	0.195		Plutonium-238	0.062	0.195
SU08-PRS153-152	0.25		Plutonium-238	0.05	0.25
SU08-PRS153-153	0.19		Plutonium-238	0.069	0.19
SU08-PRS153-154	0.73		Plutonium-238	0.07	0.73
SU08-PRS153-155	0.37		Plutonium-238	0.06	0.37
SU08-PRS153-156	0.171		Plutonium-238	0.057	0.171
SU08-PRS153-157	0.165		Plutonium-238	0.056	0.165
SU08-PRS153-158	0.228		Plutonium-238	0.058	0.228
SU08-PRS153-159	0.0006	U	Plutonium-238	0.063	0.0006
SU08-PRS153-160	0.2		Plutonium-238	0.06	0.2
SU08-PRS153-180	0.174		Plutonium-238	0.055	0.174
SU08-PRS153-181	0.107		Plutonium-238	0.05	0.107
SU08-PRS153-182	0.27		Plutonium-238	0.04	0.27
SU08-PRS153-183	0.061	J	Plutonium-238	0.045	0.061
SU08-PRS153-184	0.032	U	Plutonium-238	0.064	0.032
SU08-PRS153-185	0.39		Plutonium-238	0.06	0.39

SU8 Pu-238

Standard Deviaiton	0.165
Max Result	0.730
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU08-PRS153-149	2.63		Thorium-230	0.05	2.63
SU08-PRS153-150	1.9		Thorium-230	0.05	1.9
SU08-PRS153-151	1.2		Thorium-230	0.03	1.2
SU08-PRS153-152	0.99		Thorium-230	0.05	0.99
SU08-PRS153-153	0.88		Thorium-230	0.04	0.88
SU08-PRS153-154	2.45		Thorium-230	0.09	2.45
SU08-PRS153-155	2.34		Thorium-230	0.06	2.34
SU08-PRS153-156	1.41		Thorium-230	0.06	1.41
SU08-PRS153-157	1.52		Thorium-230	0.02	1.52
SU08-PRS153-158	1.62		Thorium-230	0.06	1.62
SU08-PRS153-159	1.01		Thorium-230	0.05	1.01
SU08-PRS153-160	1.68		Thorium-230	0.05	1.68
SU08-PRS153-180	3.65		Thorium-230	0.05	3.65
SU08-PRS153-181	2.79		Thorium-230	0.06	2.79
SU08-PRS153-182	1.98		Thorium-230	0.06	1.98
SU08-PRS153-183	2		Thorium-230	0.05	2
SU08-PRS153-184	2.52		Thorium-230	0.06	2.52
SU08-PRS153-185	2.08		Thorium-230	0.04	2.08

SU8 Th-230

Standard Deviaiton	0.726
Max Result	3.650
Cleanup Objective	2.800
Hot Spot Criteria	4.600

SU08-PRS153-149	0.87		Thorium-232	0.05	0.87
SU08-PRS153-150	0.97		Thorium-232	0.05	0.97
SU08-PRS153-151	0.91		Thorium-232	0.04	0.91
SU08-PRS153-152	0.93		Thorium-232	0.03	0.93
SU08-PRS153-153	0.93		Thorium-232	0.04	0.93
SU08-PRS153-154	1.16		Thorium-232	0.08	1.16
SU08-PRS153-155	1.03		Thorium-232	0.05	1.03
SU08-PRS153-156	1.15		Thorium-232	0.04	1.15
SU08-PRS153-157	0.92		Thorium-232	0.05	0.92
SU08-PRS153-158	0.91		Thorium-232	0.03	0.91
SU08-PRS153-159	1.15		Thorium-232	0.05	1.15
SU08-PRS153-160	0.79		Thorium-232	0.06	0.79
SU08-PRS153-180	0.97		Thorium-232	0.03	0.97
SU08-PRS153-181	0.86		Thorium-232	0.05	0.86
SU08-PRS153-182	0.81		Thorium-232	0.06	0.81
SU08-PRS153-183	0.79		Thorium-232	0.05	0.79
SU08-PRS153-184	0.81		Thorium-232	0.07	0.81
SU08-PRS153-185	0.81		Thorium-232	0.05	0.81

SU8 Th-232

Standard Deviaiton	0.122
Max Result	1.160
Cleanup Objective	2.100
Hot Spot Criteria	3.500

EXHIBIT 2

A136/164

COC VERIFICATION RESULTS
(pCi/g)

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU09-PRS153-161	0.004	U	Plutonium-238	0.028	0.004
SU09-PRS153-162	-0.004	U	Plutonium-238	0.04	0.02
SU09-PRS153-163	0.006	U	Plutonium-238	0.021	0.006
SU09-PRS153-164	0.004	U	Plutonium-238	0.024	0.004
SU09-PRS153-165	-0.008	U	Plutonium-238	0.034	0.017
SU09-PRS153-166	0.005	U	Plutonium-238	0.019	0.005
SU09-PRS153-167	0.046	U	Plutonium-238	0.049	0.046
SU09-PRS153-168	0.006	U	Plutonium-238	0.051	0.006
SU09-PRS153-169	0.019	U	Plutonium-238	0.058	0.019
SU09-PRS153-170	-0.006	U	Plutonium-238	0.054	0.027
SU09-PRS153-171	-0.001	U	Plutonium-238	0.066	0.033
SU09-PRS153-172	0.0006	U	Plutonium-238	0.06	0.0006
SU09-PRS153-173	0.003	U	Plutonium-238	0.063	0.003
SU09-PRS153-174	0.0006	U	Plutonium-238	0.062	0.0006
SU09-PRS153-175	0.003	U	Plutonium-238	0.064	0.003
SU09-PRS153-176	0.005	U	Plutonium-238	0.075	0.005
SU09-PRS153-177	-0.004	U	Plutonium-238	0.054	0.027
SU09-PRS153-178	0.037	U	Plutonium-238	0.051	0.037
SU09-PRS153-179	0.026	U	Plutonium-238	0.04	0.026

SU9 Pu-238

Standard Deviaiton	0.014
Max Result	0.046
Cleanup Objective	55.000
Hot Spot Criteria	165.000

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU09-PRS153-161	1.4		Thorium-230	0.04	1.4
SU09-PRS153-162	1.21		Thorium-230	0.02	1.21
SU09-PRS153-163	0.96		Thorium-230	0.03	0.96
SU09-PRS153-164	0.8		Thorium-230	0.06	0.8
SU09-PRS153-165	1.11		Thorium-230	0.06	1.11
SU09-PRS153-166	1.06		Thorium-230	0.06	1.06
SU09-PRS153-167	1.07		Thorium-230	0.04	1.07
SU09-PRS153-168	1.07		Thorium-230	0.05	1.07
SU09-PRS153-169	1.01		Thorium-230	0.05	1.01
SU09-PRS153-170	0.99		Thorium-230	0.04	0.99
SU09-PRS153-171	0.94		Thorium-230	0.03	0.94
SU09-PRS153-172	0.96		Thorium-230	0.05	0.96
SU09-PRS153-173	1.51		Thorium-230	0.05	1.51
SU09-PRS153-174	1.35		Thorium-230	0.05	1.35
SU09-PRS153-175	1.16		Thorium-230	0.04	1.16
SU09-PRS153-176	1.22		Thorium-230	0.08	1.22
SU09-PRS153-177	1.5		Thorium-230	0.05	1.5
SU09-PRS153-178	2.38		Thorium-230	0.03	2.38
SU09-PRS153-179	1.09		Thorium-230	0.06	1.09

SU9 Th-230

Standard Deviaiton	0.345
Max Result	2.380
Cleanup Objective	2.800
Hot Spot Criteria	4.600

SU09-PRS153-161	1.08		Thorium-232	0.02	1.08
SU09-PRS153-162	1.25		Thorium-232	0.04	1.25
SU09-PRS153-163	1.18		Thorium-232	0.05	1.18
SU09-PRS153-164	1.31		Thorium-232	0.06	1.31
SU09-PRS153-165	1.36		Thorium-232	0.06	1.36
SU09-PRS153-166	1.14		Thorium-232	0.06	1.14
SU09-PRS153-167	0.93		Thorium-232	0.03	0.93
SU09-PRS153-168	1.13		Thorium-232	0.06	1.13
SU09-PRS153-169	1.09		Thorium-232	0.06	1.09
SU09-PRS153-170	1.22		Thorium-232	0.05	1.22
SU09-PRS153-171	1.03		Thorium-232	0.04	1.03
SU09-PRS153-172	1.34		Thorium-232	0.04	1.34
SU09-PRS153-173	1.37		Thorium-232	0.05	1.37
SU09-PRS153-174	1.25		Thorium-232	0.03	1.25
SU09-PRS153-175	1		Thorium-232	0.04	1
SU09-PRS153-176	1.25		Thorium-232	0.08	1.25
SU09-PRS153-177	1.17		Thorium-232	0.06	1.17
SU09-PRS153-178	0.88		Thorium-232	0.05	0.88
SU09-PRS153-179	1.05		Thorium-232	0.03	1.05

SU9 Th-232

Standard Deviaiton	0.143
Max Result	1.370
Cleanup Objective	2.100
Hot Spot Criteria	3.500

EXHIBIT 2

A137/164

COC VERIFICATION RESULTS
(pCi/g)

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU11-PRS153-129	-0.007	U	Bismuth-207	0.046	0.023
SU11-PRS153-130	-0.003	U	Bismuth-207	0.042	0.021
SU11-PRS153-131	0.006	U	Bismuth-207	0.052	0.006
SU11-PRS153-132	-0.011	U	Bismuth-207	0.043	0.0215
SU11-PRS153-133	0.014	U	Bismuth-207	0.061	0.014
SU11-PRS153-134	0.0005	U	Bismuth-207	0.05	0.0005
SU11-PRS153-135	-0.027	U	Bismuth-207	0.027	0.0135
SU11-PRS153-136	0.02	U	Bismuth-207	0.07	0.02

SU11 Bi-207

Standard Deviaiton	0.008
Max Result	0.020
Cleanup Objective	1.200
Hot Spot Criteria	3.600

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU11-PRS153-129	-0.004	U	Cesium 137	0.053	0.0265
SU11-PRS153-130	0.017	U	Cesium 137	0.075	0.017
SU11-PRS153-131	0.0001	U	Cesium 137	0.07	0.0001
SU11-PRS153-132	0.017	U	Cesium 137	0.098	0.017
SU11-PRS153-133	0.03	U	Cesium 137	0.088	0.03
SU11-PRS153-134	0.003	U	Cesium 137	0.072	0.003
SU11-PRS153-135	0.004	U	Cesium 137	0.068	0.004
SU11-PRS153-136	-0.01	U	Cesium 137	0.078	0.039

SU11 Cs-137

Standard Deviaiton	0.014
Max Result	0.030
Cleanup Objective	3.800
Hot Spot Criteria	10.620

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU11-PRS153-129	0.019	U	Cobalt 60	0.096	0.019
SU11-PRS153-130	0.015	U	Cobalt 60	0.055	0.015
SU11-PRS153-131	0.013	U	Cobalt 60	0.077	0.013
SU11-PRS153-132	0.024	U	Cobalt 60	0.091	0.024
SU11-PRS153-133	0.013	U	Cobalt 60	0.1	0.013
SU11-PRS153-134	0.023	U	Cobalt 60	0.074	0.023
SU11-PRS153-135	0.016	U	Cobalt 60	0.087	0.016
SU11-PRS153-136	0.014	U	Cobalt 60	0.087	0.014

SU11 Co-60

Standard Deviaiton	0.004
Max Result	0.024
Cleanup Objective	0.700
Hot Spot Criteria	2.100

Location	Result	Lab Qualifier	Analyte	MDA	Value Used
SU12-PRS153-128	0.97		Thorium-232	0.03	0.97

SU12 Th-232

Standard Deviaiton	NA
Max Result	0.970
Cleanup Objective	2.100
Hot Spot Criteria	3.500

EXHIBIT 2

Science Applications International Corp

Client Sample ID: SU153-RSW-121

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6D210258-014
Work Order: H3TJH
Matrix: SOLID

Date Collected: 04/18/06 1503
Date Received: 04/21/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Iso THORIUM (LONG CT) DOE A-01-R MOD			pCi/g		Batch # 6122145		Yld % 96
Thorium 228	0.96		0.25	0.20	0.08	05/03/06	05/03/06
Thorium 230	0.63		0.18	0.20	0.05	05/03/06	05/03/06
Thorium 232	0.81		0.22	0.20	0.05	05/03/06	05/03/06

results < CO

Bounding result for
sample location SU7-PRS153-121

AMay 6

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

EXHIBIT 2
A139/164

Science Applications International Corp

Client Sample ID: SU153-RSW-180

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F6D210258-015
Work Order: H3TJJ
Matrix: SOLID

Date Collected: 04/18/06 1505
Date Received: 04/21/06 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Iso THORIUM (LONG CT) DOE A-01-R MOD			pCi/g		Batch # 6122145		Yld % 94
Thorium 228	1.02		0.25	0.20	0.06	05/03/06	05/03/06
Thorium 230	2.27		0.45	0.20	0.04	05/03/06	05/03/06
Thorium 232	0.90		0.23	0.20	0.03	05/03/06	05/03/06

results < CO

Bounding result for
sample location SU8-PRS153-180

4 mg/b

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

EXHIBIT 2
A140/104

Recalculation of N for SU7

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cm-244	92.1	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.218	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.572	Th-230+D	2.8	(pCi/g)
0.101	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.1	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	112	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	Uranium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05	
$Z_{1-alpha}$	1.645	
Type II Error	0.2	
Z_{1-beta}	0.842	
Effective	0.21	(s)
Sign p	0.919243	

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.21
Rel Shift	1.429
(N)	11.00

Pu-238 Area Factor (N) 131

Sample Grid Spacing

SU Area	226.55	m^2
Grid Length	4.2	m
Grid Height	3.7	m

Sample Grid Spacing

SU Area	2436	ft^2
Grid Length	13.9	ft
Grid Height	12.0	ft

PRSs 153 Survey Unit 7

4/17/06 10:31 AM

EXHIBIT 3 A141/164

Recalculation of N for SU8

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.165	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.726	Th-230+D	2.8	(pCi/g)
0.122	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1-alpha}$	1.645		
Type II Error	0.2		
Z_{1-beta}	0.842		
Effective	0.27	(s)	
Sign p	0.864334		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.27
Rel Shift	1.129
(N)	15.00

Pu-238 Area Factor (N) 145

Sample Grid Spacing

SU Area	250.08	m^2
Grid Length	3.8	m
Grid Height	3.3	m

Sample Grid Spacing

SU Area	2689	ft^2
Grid Length	12.5	ft
Grid Height	10.8	ft

PRSs 153 Survey Unit 8

4/17/06 10:41 AM

EXHIBIT 3 A142/16

Recalculation of N for SU9

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cm-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
0.014	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.345	Th-230+D	2.8	(pCi/g)
0.143	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.14	*(s)*	
Sign p	0.977250		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.70
Delta	0.30
(s)	0.14
Rel Shift	2.131
(N)	9.00

Pu-238 Area Factor (N) 201

Sample Grid Spacing

SU Area	347.54	m^2
Grid Length	5.8	m
Grid Height	5.0	m

Sample Grid Spacing

SU Area	3737	ft^2
Grid Length	19.0	ft
Grid Height	16.4	ft

PRSs: east of PRS 153

Survey Unit: 9

4/17/06 10:42 AM

EXHIBIT 3 A143/164

Recalculation of N for SU11

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	416	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
0.014	Cs-137+D	3.8	(pCi/g)
0.004	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Nb-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
0.008	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.01	(s)	
Sign p	0.841345		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.99
Delta	0.01
(s)	0.01
Rel Shift	1.050
(N)	16.00

Sample Grid Spacing

SU Area	33.11	m^2
Grid Length	1.3	m
Grid Height	1.2	m

Sample Grid Spacing

SU Area	356	ft^2
Grid Length	4.4	ft
Grid Height	3.8	ft

PRSs: north of PRS 153

Survey Unit: 11

4/17/06 10:47 AM

EXHIBIT 3 A144/164

Recalculation of N for SU12

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cm-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
0.23	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05	
$Z_{1\text{-alpha}}$	1.645	
Type II Error	0.2	
$Z_{1\text{-beta}}$	0.842	
Effective	0.23	*(s)*
Sign p	0.977250	

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.23
Rel Shift	2.174
(N)	9.00

note: due to very small area, one sample is appropriate per Post Ex SUD.

Sample Grid Spacing

SU Area	7.35	m^2
Grid Length	0.8	m
Grid Height	0.7	m

Sample Grid Spacing

SU Area	79	ft^2
Grid Length	2.8	ft
Grid Height	2.4	ft

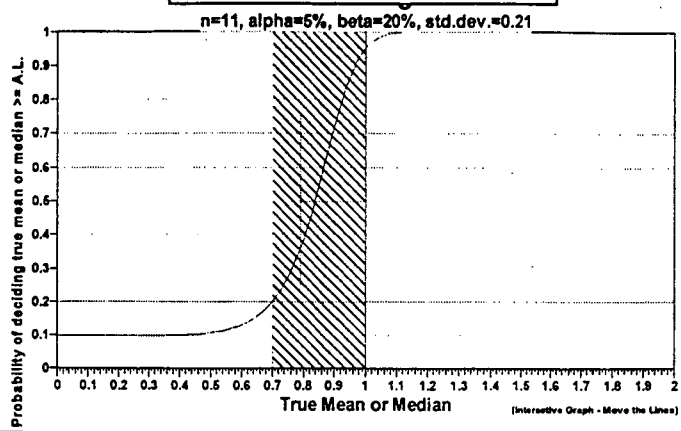
PRSs 153 Survey Unit 12

NOTE: SU12 has only one sample result which precludes calc of std deviation & recalc N, therefore standard deviation from Post Ex SUD used here.

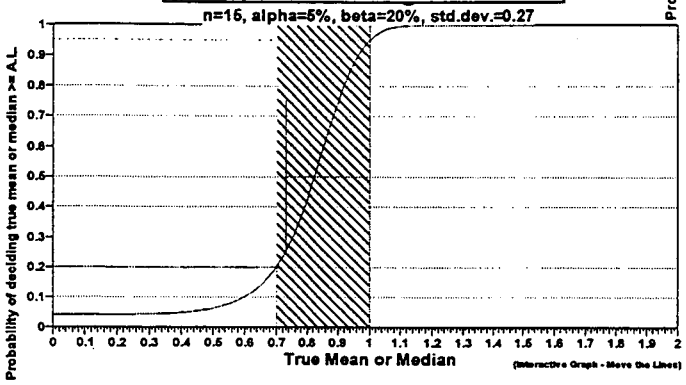
4/18/06 8:24 AM

EXHIBIT 3 A145/164

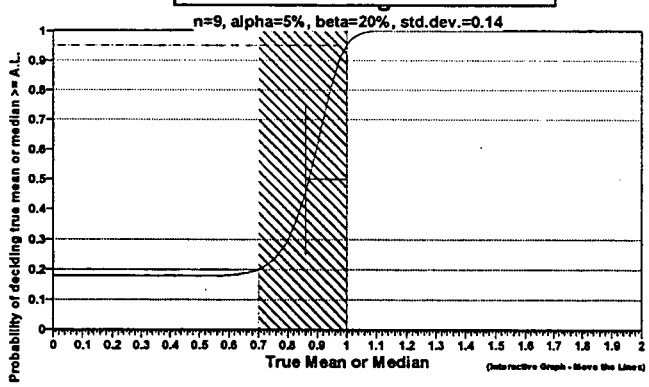
SU7 Power Curve



SU8 Power Curve



SU9 Power Curve



SU12 Power Curve

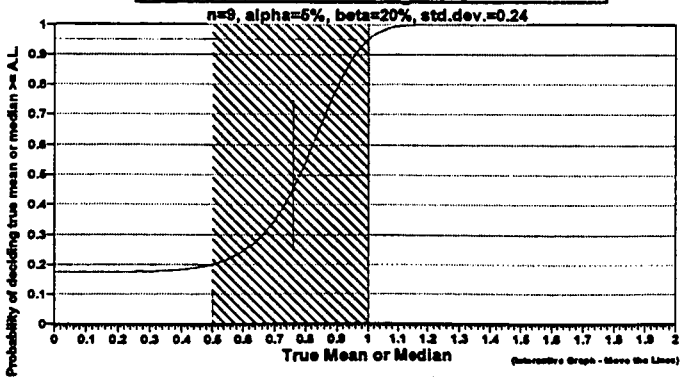


EXHIBIT 3

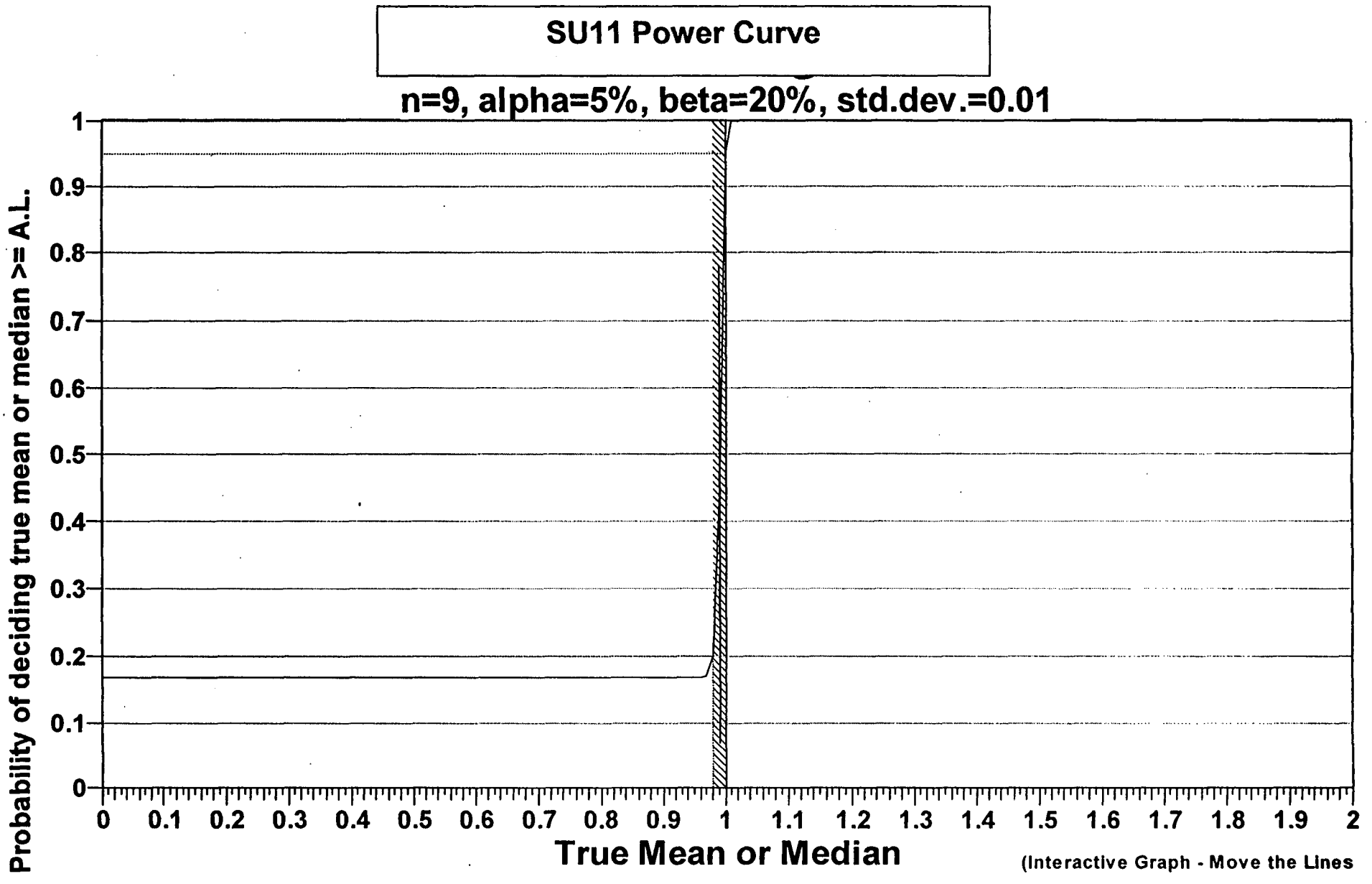


EXHIBIT 3

AH7/69

Sign Test for Th-230 at SU7

PRS 153 Sample ID	Survey Unit	Sample Depth (ft)	Max probe depth (ft) bgs	Offsite analysis (pCi/g) Th-230 result	Th-230 MDA	Sign Test
SU07-PRS153-115	SU7	surface		1.74	0.03	+
SU07-PRS153-116	SU7	surface		2.35	0.03	+
SU07-PRS153-117	SU7	surface		1.3	0.05	+
SU07-PRS153-118	SU7	surface		1.53	0.04	+
SU07-PRS153-119	SU7	surface		0.97	0.06	+
SU07-PRS153-120	SU7	surface		1.52	0.05	+
SU07-PRS153-121	SU7	surface		**3.02**	**0.06**	-
SU07-PRS153-122	SU7	surface		0.99	0.03	+
SU07-PRS153-123	SU7	surface		1.23	0.03	+
SU07-PRS153-124	SU7	surface		1.87	0.05	+
SU07-PRS153-125	SU7	surface		1.7	0.04	+
SU07-PRS153-126	SU7	surface		1.34	0.03	+
SU07-PRS153-127	SU7	surface		1.19	0.03	+

CO	2.8	**Sum:**	**12**
Hot Spot	4.6	**k Crit**	10
Max Obs	3.020	from Table I.3 MARSSIM	
Mean	1.596		
Standard Deviation	0.5718	P/F	**PASS**
Number of Samples	13		

EXHIBIT 4

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Sign Test for Th-230 at SU8

PRS 153 Sample ID	Survey Unit	Sample Depth (ft)	Max probe depth (ft) bgs	Offsite analysis (pCi/g) Th-230 result	Th-230 MDA	Sign Test
SU08-PRS153-149	SU8	surface		2.63	0.05	+
SU08-PRS153-150	SU8	surface		1.9	0.05	+
SU08-PRS153-151	SU8	surface		1.2	0.03	+
SU08-PRS153-152	SU8	surface		0.99	0.05	+
SU08-PRS153-153	SU8	surface		0.88	0.04	+
SU08-PRS153-154	SU8	surface		2.45	0.09	+
SU08-PRS153-155	SU8	surface		2.34	0.06	+
SU08-PRS153-156	SU8	surface		1.41	0.06	+
SU08-PRS153-157	SU8	surface		1.52	0.02	+
SU08-PRS153-158	SU8	surface		1.62	0.06	+
SU08-PRS153-159	SU8	surface		1.01	0.05	+
SU08-PRS153-160	SU8	surface		1.68	0.05	+
SU08-PRS153-180	SU8	surface		**3.65**	**0.05**	-
SU08-PRS153-181	SU8	surface		2.79	0.06	+
SU08-PRS153-182	SU8	surface		1.98	0.06	+
SU08-PRS153-183	SU8	surface		2	0.05	+
SU08-PRS153-184	SU8	surface		2.52	0.06	+
SU08-PRS153-185	SU8	surface		2.08	0.04	+

CO	2.8	**Sum:**	**17**
Hot Spot	4.6	**k Crit**	13
Max Obs	3.650	from Table I.3 MARSSIM	
Mean	1.925		
Standard Deviation	0.7263	P/F	**PASS**
Number of Samples	18		

EXHIBIT 4

A149/164

95% UCL for Th-230 at SU7

Data File		Variable:	1.74
Raw Statistics		Normal Distribution Test	
Number of Valid Samples	13	Shapiro-Wilk Test Statisitic	0.877905
Number of Unique Samples	13	Shapiro-Wilk 5% Critical Value	0.866
Minimum	0.97	Data are normal at 5% significance level	
Maximum	3.02		
Mean	1.596154	95% UCL (Assuming Normal Distribution)	
Median	1.52	Student	1.878828
Standard Deviation	0.571847		
Variance	0.327009	Gamma Distribution Test	
Coefficient of Variation	0.358266	A-D Test Statistic	0.31984
Skewness	1.428214	A-D 5% Critical Value	0.733794
		K-S Test Statistic	0.126634
Gamma Statistics		K-S 5% Critical Value	0.236718
k hat	9.877324	Data follow gamma distribution	
k star (bias corrected)	7.649224	at 5% significance level	
Theta hat	0.161598		
Theta star	0.208669	95% UCLs (Assuming Gamma Distribution)	
nu hat	256.8104	Approximate Gamma UCL	1.898077
nu star	198.8798	Adjusted Gamma UCL	1.946166
Approx.Chi Square Value (.05)	167.2444		
Adjusted Level of Significance	0.03009	Lognormal Distribution Test	
Adjusted Chi Square Value	163.1119	Shapiro-Wilk Test Statisitic	0.957734
		Shapiro-Wilk 5% Critical Value	0.866
Log-transformed Statistics		Data are lognormal at 5% significance level	
Minimum of log data	-0.03046		
Maximum of log data	1.105257	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	0.416123	95% H-UCL	1.91586
Standard Deviation of log data	0.324746	95% Chebyshev (MVUE) UCL	2.223493
Variance of log data	0.10546	97.5% Chebyshev (MVUE) UCL	2.49699
		99% Chebyshev (MVUE) UCL	3.034221
		95% Non-parametric UCLs	
Da		CLT UCL	1.857031
		Adj-CLT UCL (Adjusted for skewness)	1.92416
RECOMMENDATION		Mod-t UCL (Adjusted for skewness)	1.889299
		Jackknife UCL	1.878828
Use Stu		Standard Bootstrap UCL	1.855024
		Bootstrap-t UCL	2.051664
Therefore, the 95% UCL		Hall's Bootstrap UCL	2.968787
		Percentile Bootstrap UCL	1.871538
PASSES		BCA Bootstrap UCL	1.877692
		95% Chebyshev (Mean, Sd) UCL	2.287483
when compared to the cleanup objective		97.5% Chebyshev (Mean, Sd) UCL	2.586622
of 2.8 pCi/g		99% Chebyshev (Mean, Sd) UCL	3.174222

EXHIBIT 4

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95% UCL for Th-230 at SU8

Data File		Variable:	2.63
Raw Statistics		Normal Distribution Test	
Number of Valid Samples	18	Shapiro-Wilk Test Statisitic	0.963225
Number of Unique Samples	18	Shapiro-Wilk 5% Critical Value	0.897
Minimum	0.88	Data are normal at 5% significance level	
Maximum	3.65		
Mean	1.925	95% UCL (Assuming Normal Distribution)	
Median	1.94	Student's-t UCL	2.2228
Standard Deviation	0.72629		
Variance	0.527497	Gamma Distribution Test	
Coefficient of Variation	0.377293	A-D Test Statistic	0.191215
Skewness	0.55445	A-D 5% Critical Value	0.741243
		K-S Test Statistic	0.09225
Gamma Statistics		K-S 5% Critical Value	0.203796
k hat	7.293941	Data follow gamma distribution	
k star (bias corrected)	6.115321	at 5% significance level	
Theta hat	0.263918		
Theta star	0.314783	95% UCLs (Assuming Gamma Distribution)	
nu hat	262.5819	Approximate Gamma UCL	2.268643
nu star	220.1516	Adjusted Gamma UCL	2.305004
Approx.Chi Square Value (.05)	186.8041		
Adjusted Level of Significance	0.03574	Lognormal Distribution Test	
Adjusted Chi Square Value	183.8573	Shapiro-Wilk Test Statisitic	0.969561
		Shapiro-Wilk 5% Critical Value	0.897
Log-transformed Statistics		Data are lognormal at 5% significance level	
Minimum of log data	-0.12783		
Maximum of log data	1.294727	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	0.584812	95% H-UCL	2.3309
Standard Deviation of log data	0.393212	95% Chebyshev (MVUE) UCL	2.726861
Variance of log data	0.154616	97.5% Chebyshev (MVUE) UCL	3.071641
		99% Chebyshev (MVUE) UCL	3.748893
Data are normal (0.05)		95% Non-parametric UCLs	
		CLT UCL	2.206579
RECOMMENDATION		Adj-CLT UCL (Adjusted for skewness)	2.230484
Use Student's-t UCL		Mod-t UCL (Adjusted for skewness)	2.226529
		Jackknife UCL	2.2228
		Standard Bootstrap UCL	2.205032
Therefore, the 95% UCL		Bootstrap-t UCL	2.265706
		Hall's Bootstrap UCL	2.2663
PASSES		Percentile Bootstrap UCL	2.2
		BCA Bootstrap UCL	2.231667
when compared to the cleanup objective		95% Chebyshev (Mean, Sd) UCL	2.671192
of 2.8 pCi/g		97.5% Chebyshev (Mean, Sd) UCL	2.99407
		99% Chebyshev (Mean, Sd) UCL	3.628301

EXHIBIT 4

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APPENDIX E

DATA REVIEW & VALIDATION

DATA ASSESSMENT REPORT

DOE – Mound
PRS 153
Miamisburg, Ohio

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April 29, 2006

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1.0 Introduction

Analytical data can be evaluated on at least three quality control (QC) levels:

Data Review involves an assessment of the quality controls used by the laboratory during the performance of the analysis. These include such things as laboratory blanks, system monitoring compound (surrogate) recoveries, matrix spikes, etc. Which controls are assessed and what criteria are applied depend on the analysis performed. The results of field quality control measures such as field duplicates and trip blanks may also be evaluated. Data Review is normally performed on 100% of the analytical data.

Data Validation is a more detailed review of the entire laboratory data package. It includes all the elements of the Data Review plus verification of such checks as proper instrument calibration, proper use of standards and correct performance of data calculations. Data Validation is used to identify systemic problems with the way the laboratory performs and reports analyses.

Data Assessment may also evaluate whether project data quality objectives and other program needs that led to the collection of samples in the first place were met. Data assessment typically draws on the results of data validation of one or more data sets.

2.0 Description of the Data Set

This data assessment covers 251 samples collected October 17-24, 2005; February 6-7, 2006; and March 1, 6, or 28, 2006, from the Mound facility (PRS 153) to confirm environmental compliance prior to site closure. Offsite sample analyses were performed at Severn-Trent Laboratories of Earth City (St. Louis), MO, as analytical batches (LSDG, lab sample delivery group) F5K020292, F5K020307, F6B230286, F6B230303, F6B230312, F6B230327, F6B230332, F6B230341, F6B230352, F6C080273 and F6C300210 (part). Samples included 230 unique solid samples, ten field duplicate pairs, and 11 aqueous (rinsate) samples. Eleven field samples were designated as matrix spike (MS) samples for analytical QC purposes. This is slightly below the appropriate 5% level of QC sampling for the field duplicate samples, but an acceptable frequency for the rinsate and MS/MSD checks. No data were qualified for this occurrence.

There were no problems associated with the documentation, shipment, or chain of custody of the samples. Analyte detection goals were achieved, except for one sample where poor chemical yield (25%) led to elevated reporting limits for thorium results (discussed below).

Table 1 summarizes the identification of the samples and the analyses performed; the analytical methods performed were:

- Alpha spectroscopy for isotopic plutonium (Pu), thorium (Th), and uranium (U) by DOE Environmental Monitoring Lab (EML) Method A-01-R, Modified.
- Total Petroleum Hydrocarbons (TPH) by Method SW-846 8015, Modified.
- Gamma spectroscopy for Cesium-137 (Cs-137) and other radionuclides by EML Method GA-01-R, Modified.

- Arsenic by Inductively Coupled Plasma Spectroscopy, by EPA SW-846 Method 6010B.

3.0 Data Review

The quality control data submitted with the analytical data packages were reviewed and assessed. The results of the assessment are presented in this section. The data qualification flags in Table 2 are used to indicate data quality problems identified during the data review process.

3.1 Tracer Recovery

The laboratory spikes every alpha spectrometry sample with a non-target isotope appropriate for that element. The percent recovery of this isotope is then used to scale the detected presence of the target isotopes. To fully meet QC criteria the isotope recovery must be between 20% and 115% and have an accumulated count of at least 200 counts. Tracer recovery in the samples met QC criteria, although in some cases recoveries were low – such as the 25% recovery of thorium in sample 000291 / F6B230332-008. No data required qualification as estimated, however, for this criterion.

3.2 Blanks

The laboratory analyzes one blank for every 20 samples or LSDG. Laboratory blanks are analyzed to determine if laboratory processes are contributing to the detected sample activities. Laboratory blanks were analyzed at an appropriate frequency.

The laboratory method blanks associated with the verification samples were free of contamination by target isotopes except for Th-230 (found in method blanks in SDGs F6B230286, -303, -312, -327, -332, and -352) and U-234 was found in a method blank in SDGs F6B230303.

3.3 Laboratory Duplicate

A laboratory duplicate analysis is performed to assess the precision and accuracy of the laboratory analysis. At least one duplicate is performed for every 20 samples or LSDG. The laboratory analyzed MS/MSD samples in order to achieve this frequency; no data were qualified for these occurrences.

To meet QC criteria the relative error ratio (RER) of duplicate samples must be < 3.0, or if one or both results are nondetect.

$$RER = \frac{[\text{Sample Result} - \text{Duplicate Result}]}{[TPU^2_{sample} + TPU^2_{dup}]^{1/2}}$$

TPU: total propagated uncertainty

It is known that for Mound soils contamination is usually distributed non-homogeneously even in dried and ground samples. Divergent results obtained from analysis of second portions from the same sample, if found, are a demonstration of this fact and not of the laboratory capability for precision. Agreement was considered acceptable if both results were nondetect, or if one was nondetect and the other found at an estimated trace level. No exceedances of the relative error ratio limit for the laboratory duplicate analyses were identified.

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3.4 Matrix Spike

A matrix spike (MS) analysis is performed to assess the precision and accuracy of the laboratory analysis. One matrix spike is to be performed for every 20 samples of a given matrix or at least once per LSDG. This frequency was met except for the final 5-sample LSDG, collected in March 2006, for which no MS/MSD was performed. No data were qualified for this occurrence, as all other MS/MSD and LCS data were consistently acceptable.

Matrix spike recoveries were typically within QC criteria for the target analytes, although a consistent exception was found for Th-230 recoveries in the alpha spectrometry data. Recoveries were below control limits for the MS and/or MSD in five of the seven spiked samples tested in late February 2006 (ranging from 57 to 77 %R versus the 78% lower control limit), leading to qualification of much of the Th-230 data as estimated. In cases where such trends were not evident, qualification for MS/MSD outliers was limited to the sample spiked, due to the well-documented matrix variability at the Mound facility.

In the gamma spectrometry, arsenic, and TPH data, all criteria were met and no data were qualified.

3.5 Laboratory Control Sample

The Laboratory Control Sample (LCS) is a standard sample with a known quantity of the analyte of concern. The LCS recovery is an indication of whether the analytical process was in control during the analysis. The LCS recoveries were within QC requirements with only one exception, Pu-238 recovery above control limits in the aqueous LCS in LSDG F6B230327, which led to "UJ" qualification of this analyte in one rinsate sample. Overall the LCS results demonstrated good analytical accuracy, and were analyzed at an acceptable frequency.

3.6 Equipment Rinsates

Equipment rinsates are used to ensure efficacy of equipment field decontamination procedures, and that the sample collection process is not causing cross contamination. Rinsate samples were free of measurable contamination, except for Th-228 in 000723, associated with field samples 000655, -673 through -676, and -719; and Th-230 in 000428, associated with field sample 000236. Qualification of Th-228 in sample 000675 / F6B230341-019 as estimated (J) resulted from rinsate contamination. Four rinsate blanks were qualified as nondetect for Th-230 due to contamination in the associated method (laboratory) blanks. These samples were 000423 through 000425 and 000427 (F5K020307-045 through -052).

For this sampling event, 11 aqueous (rinse) samples were collected for 230 field samples collected (i.e. excluding field duplicate QC samples). This frequency meets the 5% frequency required for this project, within rounding limits.

3.7 Field Duplicates

Field duplicates give an indication of the degree of homogeneity within the sample material. As with laboratory duplicates, they are reported as RER. Agreement between field duplicates was acceptable

for all analyte pairs. Four field duplicate samples were reported for this sampling event. This frequency meets the 5% frequency required for this project, within rounding limits.

As noted under laboratory duplicates, it is known that for Mound soils contamination is usually distributed non-homogeneously even in dried and ground samples. If divergent results are obtained from analysis of field duplicate pairs from the same sampling location, such an outlier would be a demonstration of this fact. Agreement was considered acceptable if both results were nondetect, or if one was nondetect and the other found at an estimated trace level. No exceedances of the relative error ratio limit for the field duplicate analyses were identified.

3.8 Other Issues

Due to excessive holding times for water and soil TPH samples prior to sample preparation, the results were qualified as nondetect at an estimated reporting limit, "UJ."

Because samples for Ra-226 analysis (gamma spectrometry) did not have a 21-day ingrowth period during analysis, the activity for Ra-226 (measured via the daughter isotope Bi-214) is an estimated value and may be biased low. As a result, all detected Ra-226 data are qualified "J" as estimated and all nondetect results are qualified "UJ" as nondetect at an estimated (biased low) reporting limit, except in the case of rinsate sample 000428 / F6B230303-013, for which the nondetect result had to be rejected because the long holding time for this sample may have permitted excessive outgassing of Radon 222 (Rn-222), an intermediate isotope in the formation of the measured isotope, Bi-214.

Consistent with standard laboratory practice, detected results that were found below the required reporting limit were qualified as estimated by the laboratory. These results have inherently poor precision, as they are close to the analytical detection limit. The qualifiers were retained during data validation, and pose no significant limitation to data usability.

Nondetect results where the uncertainty was greater than the absolute value of the result were present, and were qualified "UJ" (nondetect at an estimated reporting limit), as the sample count may be less than the background reading in such cases. These instances did not result in data rejection; the results may be used as estimated values.

4.0 Data Validation

The results of 10% of samples in each LSDG were fully data validated. In addition to the items discussed above, the following items were evaluated:

1. Instrument calibration
2. Daily Source checks
3. Background and efficiency measurement
4. Proper frequency and use of blanks
5. All calculations

No additional qualification resulted from this assessment. There was no indication of a systemic deficiency.

5.0 Certification

Based upon this review the analytical data may be used as presented with no further qualifications. 100% completeness for the analyses was obtained, with the exception of Ra-226, for which rejection of the data for one rinsate sample resulted in completeness of 98.9%.

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Table 1
Sampling Information

Field Sample ID	Laboratory ID	Alpha Spectrometry	Gamma Spectrometry	Other	QC Check?
000230	F5K020292-001				
000231	F5K020292-002				
000232	F5K020292-003				
000247	F5K020292-004				
000248	F5K020292-005				
000249	F5K020292-006				
000250	F5K020292-007				
000251	F5K020292-008				
000252	F5K020292-009				
000253	F5K020292-010				
000254	F5K020292-011				
000255	F5K020292-012				
000256	F5K020292-013				
000257	F5K020292-014				
000258	F5K020292-015				
000259	F5K020292-016				MS/MSD
000260	F5K020292-017				
000261	F5K020292-018				
000295	F5K020292-019				
000296	F5K020292-020				
000297	F5K020292-021				
000310	F5K020292-022				
000315	F5K020292-023				
000319	F5K020292-024				
000324	F5K020292-025				
000329	F5K020292-026				
000333	F5K020292-027				
000341	F5K020292-028				
000342	F5K020292-029				
000343	F5K020292-030				
000344	F5K020292-031				
000345	F5K020292-032				
000346	F5K020292-033				
000347	F5K020292-034				
000348	F5K020292-035				FDup 000416
000349	F5K020292-036				
000350	F5K020292-037				
000351	F5K020292-038				
000352	F5K020292-039				
000353	F5K020292-040				
000354	F5K020292-041				
000355	F5K020292-042				
000356	F5K020292-043				
000357	F5K020292-044				MS/MSD
000358	F5K020292-045				
000359	F5K020292-046				
000360	F5K020292-047				
000361	F5K020292-048				
000362	F5K020292-049				
000363	F5K020292-050				

KEY:
MS/MSD = The sample was also analyzed spiked for QC purposes.
FDup XXX = The sample is a field duplicate of sample number XXX
= Analysis not performed for that sample.

(Table continues next page)

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Field Sample ID	Laboratory ID	Alpha Spectrometry	Gamma Spectrometry	Arsenic	QC Check?
000370	F5K020307-001				
000371	F5K020307-002				
000372	F5K020307-003				MS/MSD
000373	F5K020307-004				
000374	F5K020307-005				
000375	F5K020307-006				FDup 000419
000376	F5K020307-007				
000377	F5K020307-008				
000378	F5K020307-009				
000379	F5K020307-010				
000380	F5K020307-011				
000381	F5K020307-012				
000382	F5K020307-013				
000383	F5K020307-014				
000384	F5K020307-015				
000385	F5K020307-016				
000386	F5K020307-017				
000387	F5K020307-018				FDup 000417
000388	F5K020307-019				
000389	F5K020307-020				
000390	F5K020307-021				
000391	F5K020307-022				
000392	F5K020307-023				
000393	F5K020307-024				
000394	F5K020307-025				
000395	F5K020307-026				
000396	F5K020307-027				
000397	F5K020307-028				
000398	F5K020307-029				
000399	F5K020307-030				
000400	F5K020307-031				
000401	F5K020307-032				
000402	F5K020307-033				
000403	F5K020307-034				
000404	F5K020307-035				
000405	F5K020307-036				
000406	F5K020307-037				
000407	F5K020307-038				
000408	F5K020307-039				
000409	F5K020307-040				
000410	F5K020307-041				
000411	F5K020307-042				
000412	F5K020307-043				
000413	F5K020307-044				MS/MSD
000414	F5K020307-045				
000416	F5K020307-046				FDup 000348
000417	F5K020307-047				FDup 000387
000419	F5K020307-048				FDup 000375
000423	F5K020307-049				For 000257
000424	F5K020307-050				For 000349
000425	F5K020307-051				For 000386
000427	F5K020307-052				For 000370
000429	F5K020307-053				For 000310

KEY:

MS/MSD	= The sample was also analyzed spiked for QC purposes.
FDup XXX	= The sample is a field duplicate of sample number XXX
	= Analysis not performed for that sample.
	= Sample is an aqueous (rinsate) sample.

(Table continues next page)

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Field Sample ID	Laboratory ID	Alpha Spectrometry	Gamma Spectrometry	TPH	QC Check?
000233	F6B230286-001				
000235	F6B230286-002				
000236	F6B230286-003				
000237	F6B230286-004				
000238	F6B230286-005				
000239	F6B230286-006				
000240	F6B230286-007				
000298	F6B230286-008				
000299	F6B230286-009				
000300	F6B230286-010				
000301	F6B230286-011				
000302	F6B230286-012				FDup 000421
000421	F6B230286-013				FDup 000302
000303	F6B230286-014				
000304	F6B230286-015				MS/MSD
000305	F6B230286-016				
000306	F6B230286-017				
000307	F6B230286-018				
000308	F6B230286-019				
000309	F6B230286-020				
000312	F6B230303-001				
000313	F6B230303-002				
000314	F6B230303-003				
000316	F6B230303-004				
000317	F6B230303-005				
000318	F6B230303-006				
000320	F6B230303-007				
000321	F6B230303-008				
000322	F6B230303-009				
000323	F6B230303-010				
000325	F6B230303-011				
000326	F6B230303-012				
000428	F6B230303-013				For 000236
000327	F6B230303-014				MS/MSD
000328	F6B230303-015				FDup 000420
000420	F6B230303-016				FDup 000328
000330	F6B230303-017				
000331	F6B230303-018				
000332	F6B230303-019				
000334	F6B230303-020				
000335	F6B230303-021				

KEY:
MS/MSD = The sample was also analyzed spiked for QC purposes.
FDup XXX = The sample is a field duplicate of sample number XXX
= Analysis not performed for that sample.
= Sample is an aqueous (rinsate) sample.

(Table continues next page)

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Field Sample ID	Laboratory ID	Alpha Spectrometry	Gamma Spectrometry	TPH	QC Check?
000336	F6B230312-001				
000338	F6B230312-002				
000339	F6B230312-003				
000340	F6B230312-004				
000228	F6B230312-005				
000229	F6B230312-006				
000241	F6B230312-007				
000242	F6B230312-008				
000243	F6B230312-009				
000244	F6B230312-010				
000245	F6B230312-011				
000246	F6B230312-012				MS/MSD, FD
000720	F6B230312-013				FDup 000246
000657	F6B230312-014				
000658	F6B230312-015				
000659	F6B230312-016				
000660	F6B230312-017				FDup 000422
000422	F6B230312-018				FDup 000660
000274	F6B230312-019				
000661	F6B230312-020				
000311	F6B230327-001				
000662	F6B230327-002				
000663	F6B230327-003				
000664	F6B230327-004				
000665	F6B230327-005				
000666	F6B230327-006				
000667	F6B230327-007				
000668	F6B230327-008				
000669	F6B230327-009				
000670	F6B230327-010				
000430	F6B230327-011				(see below)
000687	F6B230327-012				
000715	F6B230327-013				
000716	F6B230327-014				MS/MSD
000717	F6B230327-015				
000718	F6B230327-016				
000642	F6B230327-017				
000643	F6B230327-018				
000644	F6B230327-019				
000645	F6B230327-020				

KEY:

MS/MSD	= The sample was also analyzed spiked for QC purposes.
FDup XXX	= The sample is a field duplicate of sample number XXX
	= Analysis not performed for that sample.
	= Sample is an aqueous (rinsate) sample for 000422, -660, -661, -716, -717 and -719

(Table continues next page)

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Field Sample ID	Laboratory ID	Alpha Spectrometry	Gamma Spectrometry	TPH	QC Check?
000647	F6B230332-001				
000648	F6B230332-002				
000650	F6B230332-003				
000651	F6B230332-004				
000655	F6B230332-005				
000289	F6B230332-006				
000290	F6B230332-007				
000291	F6B230332-008				
000292	F6B230332-009				FDup 000724
000293	F6B230332-010				
000294	F6B230332-011				MS/MSD
000721	F6B230332-012				FDup 000292
000724	F6B230332-013				(see below)
000679	F6B230332-014				
000680	F6B230332-015				
000681	F6B230332-016				
000683	F6B230332-017				FDup 000722
000722	F6B230332-018				FDup 000683
000682	F6B230332-019				
000684	F6B230332-020				
000726	F6B230332-021				For 000684
000699	F6B230332-022				
000700	F6B230341-001				
000701	F6B230341-002				
000702	F6B230341-003				
000703	F6B230341-004				
000704	F6B230341-005				
000705	F6B230341-006				
000706	F6B230341-007				
000707	F6B230341-008				
000708	F6B230341-009				
000709	F6B230341-010				
000710	F6B230341-011				
000711	F6B230341-012				MS/MSD
000712	F6B230341-013				
000713	F6B230341-014				
000714	F6B230341-015				
000672	F6B230341-016				
000673	F6B230341-017				FDup 000719
000674	F6B230341-018				
000675	F6B230341-019				
000677	F6B230341-020				

KEY:

MS/MSD	= The sample was also analyzed spiked for QC purposes.
FDup XXX	= The sample is a field duplicate of sample number XXX
	= Analysis not performed for that sample.
	= Sample is an aqueous (rinsate) sample.
	Rinsate 000724 is associated with samples 000289, -290, -291, -293 and -294.

(Table continues next page)

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Table 1, Concluded
Sampling Information

Field Sample ID	Laboratory ID	Alpha Spectrometry	Gamma Spectrometry	Other	QC Check?
000678	F6B230352-001				
000688	F6B230352-002				
000689	F6B230352-003				
000690	F6B230352-004				
000691	F6B230352-005				
000692	F6B230352-006				
000693	F6B230352-007				
000694	F6B230352-008				
000695	F6B230352-009				
000696	F6B230352-010				
000697	F6B230352-011				
000698	F6B230352-012				MS/MSD
000719	F6B230352-013				FDup 000673
000723	F6B230352-014				(see below)
000725	F6B230352-015				(see below)
001134	F6C080273-001				
001137	F6C080273-002				
001150	F6C080273-003				
001151	F6C080273-004				
001142	F6C070283-001				
001154	F6C300210-001				
001155	F6C300210-002				
001156	F6C300210-003				
001157	F6C300210-004				
001158	F6C300210-005				

KEY:
MS/MSD = The sample was also analyzed spiked for QC purposes.
FDup of XXXXXX = The sample is a field duplicate of sample number XXXXXX
= Analysis not performed for that sample.
= Sample is an aqueous (rinsate) sample.
Rinsate 000723 is associated with samples 000655, -673 through -676, and -719.
Rinsate 000725 is associated with samples 000695 through -698.

Table 2 - Data Review Qualifications

Flag	Description
J	Estimated sample result
U	Non-detect sample result
UJ	Non-detected sample result at an estimated reporting limit
R	Rejected (unusable) sample result

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ATTACHMENT B

GENERAL MEDIA INFORMATION

(There was no information released to the media regarding the subject PRSs)

ATTACHMENT C

PUBLIC FACT SHEETS

PUBLIC FACT SHEET

PRS 154 & 238: Area 23 & Potential Hot Spot S1092

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Action Memorandum[1].

Background. Potential Release Site (PRS) 154, also known as the Area 23 Thorium Contaminated Soil, is located on a hillside in the central portion of the site as shown on Figure 1. PRS 238 is an historic elevated thorium-230 result located adjacent to PRS 154. An historic rad waste line that traversed the area is a potential source of the contamination.

Further Assessment (FA) sampling was performed during the later months of 2002 per the Core Team-approved Sampling & Analysis Plan (SAP). Contaminants of concern (COCs) were thorium-232, actinium-227, thorium-230, radium-226, uranium-238, and plutonium-238 based on historic sample results in the area.

49 samples from the PRS 154/238 area were analyzed for the COCs. Maximum sample results above cleanup objectives (risk criteria) are summarized in the following table (unit = pCi/g). None of the plutonium-238 results were greater than the cleanup objective.

Analyte	Bkgd*	Maximum Concentration	Cleanup Objective
Thorium-230	1.9	1,020	2.8
Radium-226	2.0	19.1	2.9
Uranium-238	1.2	4.12	2.2
Actinium-227	0.11	104	4.7
Thorium-232	1.4	2.44	2.1

*background soil concentration

Based on the above results, the Core Team recommended a **Removal Action** (RA) per the Contingent Action Memo[1]. RA COCs are those listed in the above table.

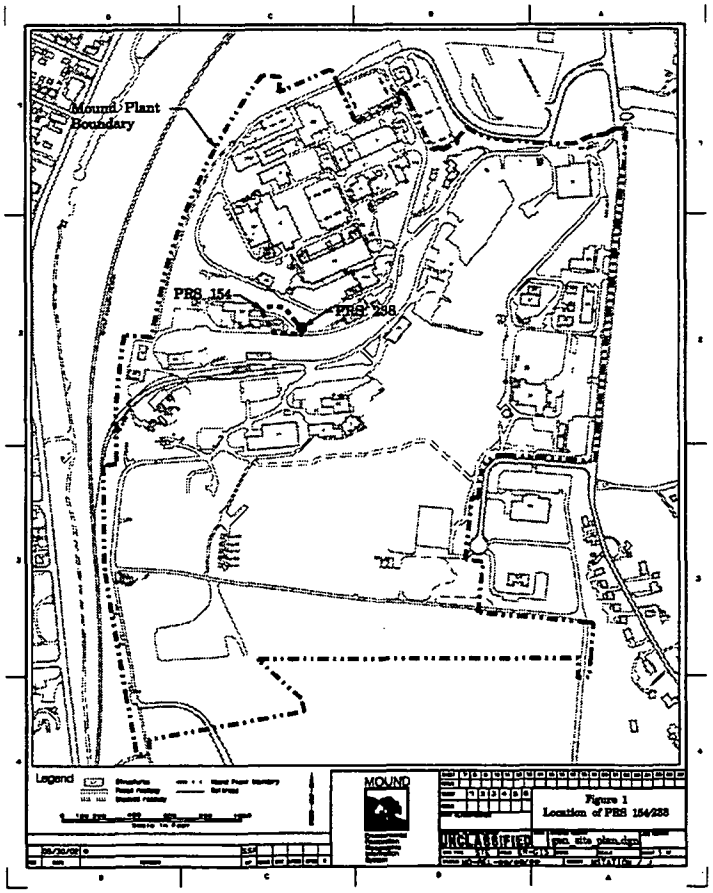
The **Work Plan** for Contingent Removal Actions[2], supplemented by the Unique Work Package, includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runon/runoff controls will be managed per the SWP3[3].

The RA will consist of excavation of contaminated soils identified by the sample results above the cleanup objectives. Post-excavation sampling will be performed within the excavations per the Core Team-approved **Verification Sampling & Analysis Plan (VSAP)**.

Schedule. This Fact Sheet will be in public review for 30 days, ending October 8, 2003. The RA is planned to begin in Fall 2003. A summary of the RA & the verification data will be included in the On-Scene Coordinator (OSC) Report. The OSC Report will be placed in the public reading room after the conclusion of the verification sampling and approval by the Core Team.

Excavation of approximately 12,963 yd^3 (9,912 m^3) & verification are expected to cost less than $650,000.

More information can be found in the public reading room, or by contacting Danny Punch at 847-8350 extension 301.



1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final
2: Standard Work Package for Contingent Removal Actions, November 2001, Final
3: Storm Water Pollution Prevention Plan

PUBLIC FACT SHEET

PRS 240: Potential Hot Spot Location S0472

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Action Memorandum[1].

Background. Potential Release Site (PRS) 240, also known as Potential Hot Spot Location S0472, is located in the West central portion of the site (Figure 1). Location S0472 was made a PRS due to an isolated total thorium result of 7.5 pCi/g. There is no known source of contamination.

Characterization. As a part of the Other Soils Characterization in 1995, twenty-eight samples were collected at and around PRS 240 and analyzed for organics, metals, and radionuclides. Maximum sample result detections above current cleanup objectives (risk criteria) are indicated in the following table (unit = pCi/g).

Analyte	Bkgd**	Maximum Detection	Cleanup Objective
Plutonium-238	0.13	124.5	55
Radium-226 +D	2.0	3.17	2.9
Uranium-238 +D	1.2	12.84	2.2

**background soil concentration

All Th-230 and Th-232 results were either qualified as not detected or detected but below screening levels. Arsenic was detected in 7 of 33 samples at a maximum level of 84 mg/kg. All detections were above the Hazard Index of 1 (64 mg/kg) but all were below the reported detection limit (100 mg/kg).

Based on the above results, the Core Team originally recommended Further Assessment for PRS 240. Subsequently, the cost of further investigation versus the cost of removing the potentially contaminated soil was evaluated. Cost estimates indicate that the cost of removal is not significantly greater than the cost of further assessment and therefore, a **Removal Action** (RA) per the Contingent Action Memo[1] is recommended. RA COCs are those listed in the table above.

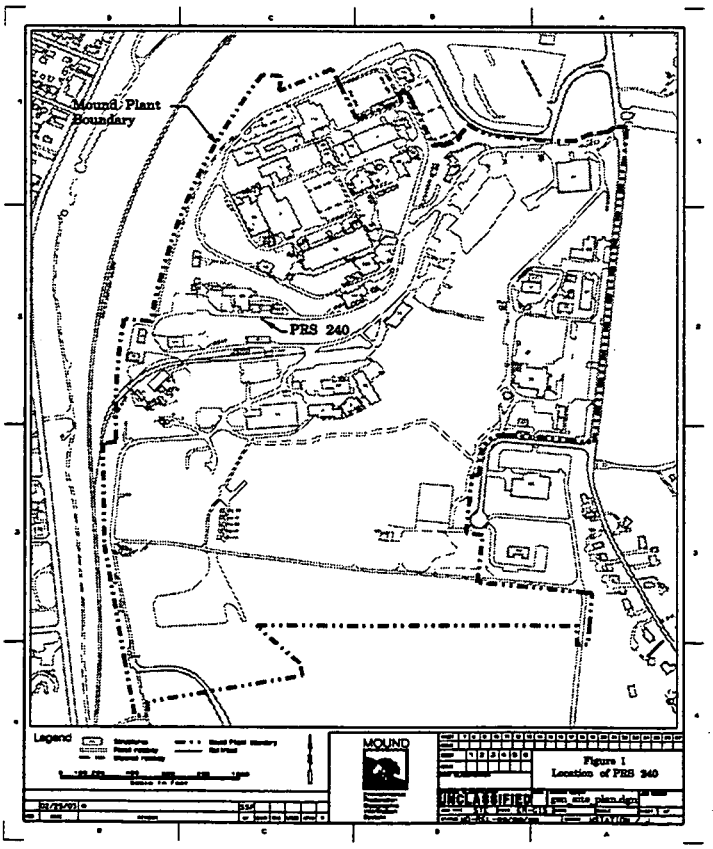
The **Work Plan** for Contingent Removal Actions[2], supplemented by the Unique Work Package, includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runon/runoff controls will be managed per the SWP3[3].

The RA will consist of excavation of contaminated soils in the area indicated by sample results above the cleanup objectives and shipping of these soils to an approved disposal facility. Post-excavation sampling will be performed within the excavations per the Core Team-approved **Verification Sampling & Analysis Plan (VSAP)**.

Schedule. This Fact Sheet will be in public review for 30 days, ending October 8, 2003. The RA is planned to begin Fall 2003. A summary of the RA & the verification data will be included in the On-Scene Coordinator (OSC) Report. The OSC Report will be placed in the public reading room after the conclusion of the verification sampling and approval by the Core Team.

Excavation of approximately 37 yd^3 (28 m^3) & verification are expected to cost less than $20,000.

More information can be found in the public reading room, or by contacting Danny Punch at 847-8350 ext. 301.



1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final
2: Standard Work Package for Contingent Removal Actions, November 2001, Final
3: Storm Water Pollution Prevention Plan

PUBLIC FACT SHEET

PRS 405: Soil Contamination – Building 23

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Action Memorandum[1].

Background. Potential Release Site (PRS) 405 is located in the west central portion of the site (Figure 1). This location was made a PRS due to the discovery of oil-contaminated soil during excavation for a potable water line in 1994. There is no known historic contamination event, however the location is below the likely maintenance drain point of an overhead fuel oil transfer line.

Characterization. As a follow-up to the discovery of dark-stained soil during excavation for a potable water line about 5 feet north of Building 23, soil characterization analysis was performed. Preliminary field screening indicated the presence of diesel fuel and polychlorinated biphenyls (PCBs). Certified laboratory analyses (considered more reliable than field screening) of two soil samples indicated no PCBs above detection limits of 0.12 ppm. Quantitative laboratory analysis for petroleum hydrocarbons was not pursued, as the presence of fuel oil was accepted as obvious.

The Core Team originally recommended Further Assessment (FA), however based on the above results and consideration of costs for further assessment, the Core Team recommended on July 10, 1997 a Response Action for PRS 405. A **Removal Action** (RA) per the Contingent Action Memo[1] is recommended, with RA COCs being total petroleum hydrocarbons (TPH, Cleanup Objective 105ppm). The Underground Lines (UGL) RA[4] addresses the radiologically contaminated soil near or within PRS 405. Surface soil in the vicinity of PRS 405 indicated plutonium-238 and thorium-232 above cleanup objectives (risk criteria) as indicated below (pCi/g):

Analyte	Bkgd**	Maximum Detection	Cleanup Objective
Plutonium-238	0.13	110.0	55
Thorium-232 +D	1.4	6.8	2.1

**background soil concentration

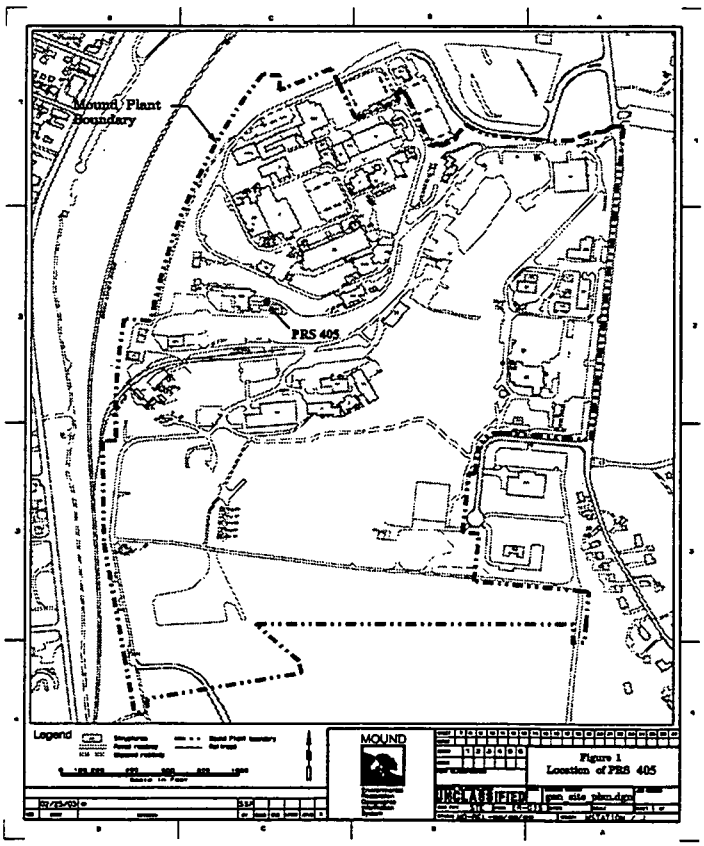
The **Work Plan** for the UGL Removal Action[2] includes the procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runon/runoff controls will be managed per the Storm Water Pollution Prevention Plan[3].

The RA will consist of excavation of contaminated soil and shipping this soil to an approved disposal facility. Post-excavation sampling will be performed per the Core Team-approved UGL **Verification Sampling & Analysis Plan (VSAP)**. A summary of the RA & the verification data will be included in the UGL On-Scene Coordinator (OSC) Report. The OSC Report will be placed in the public reading room after the conclusion of the verification sampling and approval by the Core Team.

Schedule. This Fact Sheet will be in public review for 30 days, ending April 22, 2004. The RA is planned to begin Spring 2004.

Excavation of approximately 111 yd^3 (85 m^3) & verification are expected to cost less than $40,000.

More information can be found in the public reading room, or by contacting Danny Punch at 847-8350 ext. 301.



1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final
2: UGL Removal Plan, January 2004, Draft
3. Storm Water Pollution Prevention Plan, December 1998, Rev 0
4: Underground Lines Action Memorandum, September 2003, Final