



SURVEY PACKAGE

Survey Package ID: H4024 401B1

Survey Area Name: Environmental Background
Reference Area for SETF

Survey Unit Name: Environmental Background Areas

Version: Revision 0, May 3, 2007

Prepared IAW:
SETF Sample and Analysis Plan, Rev. 0, March 2007

Prepared For:
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Survey Package Cover Sheet

Survey Package Number: H4024 401B1 Package Type: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building
4024
Survey Unit Name: Environmental Background Areas

Survey Package Preparation:

The survey package instructions are prepared and ready for implementation.

Prepared By: *J. McElree* Date 5/3/07
FSS/Characterization Design Engineer
Reviewed By: *Pat Ath* Date 5/3/07
FSS/Characterization Manager (or designee)
Approved By: *D. M. H.* Date 5/3/07
Project Manager

Survey Completion:

The survey package instructions were implemented and the survey measurements have been reviewed for completeness in accordance with the Sample and Analysis Plan. The data collected has been reviewed for completeness in accordance with the survey package instructions.

Reviewed By: *D. M. H. for J. McElree* Date: 11/30/07
FSS/Characterization Supervisor (or designee)
Reviewed By: *N/A* Date: _____
FSS/Characterization Data Analysis Engineer
Reviewed By: *Pat Ath* Date: 11/30/07
RP/FSS/Characterization Manager (or designee)
Approved By: *D. M. H.* Date: 11/30/07
Project Manager

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Survey Unit Name:	Environmental Background Areas		

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Survey Area History

Survey Package Number: H4024 401B1 **Package Type:** Environ
Survey Area Name: Environmental Background Reference Area for SETF
Building 4024
Survey Unit Name: Environmental Background Areas

Survey Area Description:

The purpose of this background study is to determine environmental nuclide concentrations from areas similar but not associated with the SETF survey units.

Survey Area History Information:

The local background determination will serve as the baseline for evaluating survey measurement results and survey reference values. Because the background study results will be used in the evaluation of the onsite survey data, measurements, sampling, sample preparation, and sample analysis will be similar to those to be used for the onsite measurements. Basis information and guidance for conducting a background survey can be found in Section 4.5 of the MARSSIM and in Ref. 7.15, Appendix A, Section A.3, Volume II of the NUREG-1757, Selection of Background Reference Areas and Background Reference Materials.

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Survey Unit Description and History

Survey Package Number: H4024 401B1 Package Type: Environ

LC1: H4024 Survey Area Name: Environmental Background Reference Area for
SETF Building 4024

LC2: 401B1 Survey Unit Name: Environmental Background Areas

LC3 - Surface Category (P1-3) and Associated Area:

LC3_P1_3	Surface Description	Dimensions (Yes or No)	Total Area (m2)
LA1	Open Land Areas	No	0

Work Breakdown Structure Information:

WBS ID: 10401 Characterization and Confirmatory Survey Activities

Survey Unit Description:

Areas similar but not associated with the SETF survey units or any other radiological operations.

Survey Unit Historical Information: Operational History, etc.

Typical nuclides found in significant levels in background materials (soil, sediments, building materials, etc.) include some of the potential COC, i.e., from the naturally occurring uranium in addition to naturally occurring radioactive materials (NORM) thorium, and actinium series, but not Co-60 or Eu-152. The background study will be performed on structural surfaces and environmental soil areas which have common characteristics with the samples to be collected from the SETF survey unit structural surfaces and environmental soil areas but which are unaffected by radioactive material storage or operations. The background soil and sediment samples will be analyzed by radionuclide specific analysis (e.g., alpha and gamma spectroscopy) to determine the radionuclides and their concentration in the natural background.

Additional Information Regarding Survey Unit Classification:

Inside RCA? No

Coolant? No

Spills? No

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Survey Support Requirements

Survey Package Number:	H4024 401B1	Package Type:	Environ
Survey Area Name:	Environmental Background Reference Area for SETF Building 4024		
Survey Unit Name:	Environmental Background Areas		

Survey Support Requirements and Considerations:

1. Review Job Hazard Analysis prepared for surveys of radiologically clean areas.

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Survey Safety Requirements

Survey Package Number:	H4024 401B1	Package Type:	Environ
Survey Area Name:	Environmental Background Reference Area for SETF Building 4024		
Survey Unit Name:	Environmental Background Areas		

Safety Requirement and Considerations:

1. This area contains or may contain physical slip, trip and fall hazards, and watch for poisonous snakes and insects.

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General Survey Package Instructions

Survey Package Number:	H4024 401B1	Package Type:	Environ
Survey Area Name:	Environmental Background Reference Area for SETF Building 4024		
Survey Unit Name:	Environmental Background Areas		

1. Perform measurements and collect samples of sufficient quantity to determine environmental nuclide concentrations from areas similar but not associated with the SETF survey units.
Operate instruments for background study and survey direct measurements and sample analysis such that measurement and/or analysis sensitivities or minimum detectable concentrations (MDCs) are ALARA or, as a minimum less than the derived concentration guideline levels (DCGLs).
2. The survey is to aid in evaluating contribution from NORM in materials of construction and soil on direct measurement levels from areas similar but not associated with the SETF survey units.
Upon completion of the initial survey specified in this survey package, the data will be analyzed and a determination will be made as to whether or not the area is suitable for use as background reference area.
3. If materials that are potentially hazardous are encountered during the survey, note this in the item description under "material" and report the location of the material to the FSS/Characterization Manager and EH&S Manager.
4. The number of measurements and/or samples prescribed are minimum number required. Survey maps for the areas contained in this survey unit are located in Appendix A.
5. Mark each measurement location with a stake or survey flag and include LC5 and/or LC6 code as appropriate.
6. The M2350 data logger(s) are to be downloaded into the Measure Database at completion of survey or at end of shift at a minimum.
7. All samples are to be logged into the Sample Database at completion of survey or at end of shift at a minimum.
Note any problems, comments, or other information pertinent to the data or sample collection under the "FIELD NOTES" section.

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Specific Survey Package Instructions

Survey Package Number:	H4024 401B1	Package Type:	Environ
Survey Area Name:	Environmental Background Reference Area for SETF Building 4024		
Survey Unit Name:	Environmental Background Areas		

1. Gamma Scan

Perform a gamma scan survey of 9 square meters around each SML.

Use a Model 44-10 detector. The scans shall be performed by moving at a maximum rate of one detector width per second while listening to the audible output of the instrument. Note any areas of highest activity on the appropriate survey drawing contained in Appendix A and mark at the SML. Do not log scan results.

2. Gamma Contact

Perform contact gamma measurement at the locations of highest activity identified during the scan.

Use Model 44-10 with the M2350 in the scaler mode with a 12 second count time and code the measurement LC4_P4 as "F," for Field Count.

3. Exposure Rate

Perform gamma exposure rate measurement at one (1) meter above the surface from each contact gamma measurement location.

Use Model 44-10, the M2350 in the scaler mode with a 12 second count time and code the measurement LC4_P4 as "F," for Field Count.

4. G-Spec Sample

Collect a surface soil sample (0 to 15 cm depth) from each location for gamma spectral analysis.

The sample size to be 1 to 2 kg of soil field screened with 1/4" mesh to remove rocks, sticks and other like debris. The sample may include a bulk material sample for a petri dish and/or 250 ml marinelli beaker sample.

To achieve the analysis MDC desired, the laboratory requested sample sizes (an amount of soil) that will yield 500 grams of dried soil. The wet soil amount can vary significantly depending on its moisture content. If the desired sample size cannot be obtained, the minimum sample size to achieve an analysis MDC is an amount of wet soil (~1 kg) that will produce 125g of dried soil.

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Survey Package Location Codes

Survey Package Number H4024 401B1 Package Type: Environ

LC1: H4024 Survey Area Name: Environmental Background Reference Area for SETF Building 4024

LC2: 401B1 Survey Unit Name: Environmental Background Areas
 Class Description: Non-Impacted Environ
 Reason Description: B1 Background Survey

LC3_P1-3 and Surface Category: LA1 Open Land Areas (general areas outside in the environs)

LC3_P45 Material Description

- S1 Soil
- G1 Miscellaneous Material

LC4_P13 - Detector Type, Analysis Codes, and Measurement/Samples Quantity

Measurement	LC4 P13 Code	Model	Description	Qty Prescribed	Qty Collected	Collected By (Initials)
Contact Gamma	G01	44-10	2"x2" NaI(Tl) Gamma Scintillator	18	18	v
Exposure Rate	G02	44-10	2"x2" NaI(Tl) Gamma Scintillator	18	18	o
Gamma Scan	G01	44-10	2"x2" NaI(Tl) Gamma Scintillator	18	18	o
G-Spec Sample	L04	GS Material Analysis	Gamma Spectrometry	18	14	o

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Survey Package Location Codes

Survey Package Number H4024 401B1 Package Type: Environ

LC1: H4024 Survey Area Name: Environmental Background Reference Area for SETF
Building 4024

LC2: 401B1 Survey Unit Name: Environmental Background Areas

Class Description: Non-Impacted Environ

Reason Description: B1 Background Survey

LC4_P4 - Count Type

LC4_P5 - Background Mode Codes

A Pre-use Background Check

A Average Background

B Pre-use Source Check

N Background Not Required

C Post-use Background Check

S Single Background

D Post-use Source Check

F Field Count

G Field Background

S Field Scan

Survey Field Notes: Additional information regarding the performance of the survey, measurements, sample collection, etc. Use additional pages as needed for field notes.

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Survey Package Appendix A – Drawings

Survey Package: H4024 401B1 Package: Environ
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Survey Unit Name: Environmental Background Areas

Survey Package Appendix A - Drawings

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Survey Package Appendix A – Drawings

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Survey Package Appendix B – Photographs

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Survey Package Appendix B - Photographs

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Survey Package Appendix B – Photographs

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Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Section	Title	Total Pages
1.0	Annotated Drawings	—
2.0	Measurement Results – Direct Beta Measurements	N/A
3.0	Measurement Results – Direct Alpha Measurements	N/A
4.0	Measurement Results – Exposure Rate Measurements	3
5.0	Sample Analysis Results – Alpha/Beta Counter	N/A
6.0	Sample Analysis Results – Gamma Spectroscopy	23
7.0	Sample Analysis Results – Alpha Spectroscopy	48
	Sample Analysis Results – Supplemental	12

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Survey Package Appendix C – Survey Results

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Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Section 1.0
Annotated Drawings
N/A Pages

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Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Section 2.0
Measurement Results – Direct Beta Measurements
N/A Pages

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Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
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Survey Unit Name: Environmental Background Areas

**Section 3.0
Measurement Results – Direct Alpha Measurements**
N/A Pages

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Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

**Section 4.0
Measurement Results – Exposure Rate Measurements
3 Pages**

Measurement Database Download Report
Exposure Rate Measurements

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL050407-001	2	JLM3848	5/4/2007	4:08 PM	H4024 401B1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
CS313 DRT01	98648	JEJ5742	162404	12	0	5/4/2007	9:52:44 AM	1.28E+05	600	1	0	30	CS313	DRT01	401B1	G01CA	LAB01	1	1	0	1.43E+01
CS313 DRT01	98648	JEJ5742	162404	12	1	5/4/2007	9:55:26 AM	6.00E+05	30	1	0	30	CS313	DRT01	401B1	G01DA	LAB01	1	1	0	1.34E+03
CS313 DRT01	98648	JEJ5742	162404	12	2	5/4/2007	9:58:08 AM	6.74E+04	30	1	0	30	CS313	DRT01	401B1	G01DA	LAB01	2	1	0	1.51E+02
CS313 DRT01	98648	JEJ5742	162404	12	3	5/4/2007	9:59:22 AM	2.78E+04	30	1	0	30	CS313	DRT01	401B1	G01DA	LAB01	2	1	0	6.22E+01
CS313 DRT01	98648	JEJ5742	162404	12	4	5/4/2007	10:00:50 AM	1.84E+04	30	1	0	30	CS313	DRT01	401B1	G01DA	LAB01	3	1	0	4.12E+01
H4024 401B1	98648	JEJ5742	162404	12	5	5/4/2007	11:52:22 AM	3.00E+03	12	1	0	30	H4024	401B1	LA1S1	G01FA	WC	1	1	0	1.68E+01
H4024 401B1	98648	JEJ5742	162404	12	6	5/4/2007	11:52:54 AM	2.90E+03	12	1	0	30	H4024	401B1	LA1S1	G02FA	WC	1	1	0	1.62E+01
H4024 401B1	98648	JEJ5742	162404	12	7	5/4/2007	11:54:46 AM	2.93E+03	12	1	0	30	H4024	401B1	LA1S1	G01FA	WC	2	1	0	1.64E+01
H4024 401B1	98648	JEJ5742	162404	12	8	5/4/2007	11:55:14 AM	2.80E+03	12	1	0	30	H4024	401B1	LA1S1	G02FA	WC	2	1	0	1.56E+01
H4024 401B1	98648	JEJ5742	162404	12	9	5/4/2007	12:00:20 PM	3.03E+03	12	1	0	30	H4024	401B1	LA1S1	G01FA	WC	3	1	0	1.69E+01
H4024 401B1	98648	JEJ5742	162404	12	10	5/4/2007	12:00:48 PM	2.81E+03	12	1	0	30	H4024	401B1	LA1S1	G02FA	WC	3	1	0	1.57E+01
H4024 401B1	98648	JEJ5742	162404	12	11	5/4/2007	12:05:02 PM	2.90E+03	12	1	0	30	H4024	401B1	LA1S1	G01FA	WC	4	1	0	1.62E+01
H4024 401B1	98648	JEJ5742	162404	12	12	5/4/2007	12:05:30 PM	2.93E+03	12	1	0	30	H4024	401B1	LA1S1	G02FA	WC	4	1	0	1.64E+01
H4024 401B1	98648	JEJ5742	162404	12	13	5/4/2007	12:07:14 PM	3.04E+03	12	1	0	30	H4024	401B1	LA1S1	G01FA	WC	5	1	0	1.70E+01
H4024 401B1	98648	JEJ5742	162404	12	14	5/4/2007	12:07:40 PM	2.96E+03	12	1	0	30	H4024	401B1	LA1S1	G02FA	WC	5	1	0	1.65E+01
H4024 401B1	98648	JEJ5742	162404	12	15	5/4/2007	12:08:44 PM	2.71E+03	12	1	0	30	H4024	401B1	LA1S1	G01FA	WC	6	1	0	1.52E+01
H4024 401B1	98648	JEJ5742	162404	12	16	5/4/2007	12:09:12 PM	2.87E+03	12	1	0	30	H4024	401B1	LA1S1	G02FA	WC	6	1	0	1.60E+01
CS313 DRT02	98648	JEJ5742	162404	12	17	5/4/2007	12:50:20 PM	1.21E+05	600	1	0	30	CS313	DRT02	LA1S1	G01CA	LAB01	1	1	0	1.36E+01
CS313 DRT02	98648	JEJ5742	162404	12	18	5/4/2007	12:52:52 PM	5.97E+05	30	1	0	30	CS313	DRT02	LA1S1	G01BA	LAB01	1	1	0	1.34E+03
CS313 DRT02	98648	JEJ5742	162404	12	19	5/4/2007	12:55:20 PM	2.77E+04	30	1	0	30	CS313	DRT02	LA1S1	G01BA	LAB01	2	1	0	6.21E+01
CS313 DRT02	98648	JEJ5742	162404	12	20	5/4/2007	12:57:04 PM	1.77E+04	30	1	0	30	CS313	DRT02	LA1S1	G01BA	LAB01	3	1	0	3.97E+01

Reviewed By: Joe Long Date: 5-11-07 Approved By: JMM Date: 5/13/07

Measurement Database Download Report
Exposure Rate Measurements

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
DL050807-001	2	JLM3848	5/8/2007	4:08 PM	H4024 401B1	44-10	162404	5.36E+10													
CS313 DRT01	98648	JEJ5742	162404	12	0	5/8/2007	8:06:54 AM	1.14E+05	600	1	0	33	CS313	DRT01	LA1S1	G01AA	LAB01	1		0	1.27E+01
CS313 DRT01	98648	JEJ5742	162404	12	1	5/8/2007	8:09:28 AM	6.04E+05	30	1	0	33	CS313	DRT01	LA1S1	G01BA	LAB01	1		0	1.35E+03
CS313 DRT01	98648	JEJ5742	162404	12	2	5/8/2007	8:11:28 AM	2.85E+04	30	1	0	33	CS313	DRT01	LA1S1	G01BA	LAB01	2		0	6.37E+01
CS313 DRT01	98648	JEJ5742	162404	12	3	5/8/2007	8:12:54 AM	1.77E+04	30	1	0	33	CS313	DRT01	LA1S1	G01BA	LAB01	3		0	3.97E+01
H4024 401B1	98648	JEJ5742	162404	12	4	5/8/2007	8:58:52 AM	3.12E+03	12	1	0	33	H4024	401B1	LA1S1	G01FA	BC	1		0	1.75E+01
H4024 401B1	98648	JEJ5742	162404	12	5	5/8/2007	8:59:22 AM	2.98E+03	12	1	0	33	H4024	401B1	LA1S1	G02FA	BC	1		0	1.67E+01
H4024 401B1	98648	JEJ5742	162404	12	6	5/8/2007	9:00:54 AM	3.18E+03	12	1	0	33	H4024	401B1	LA1S1	G01FA	BC	2		0	1.78E+01
H4024 401B1	98648	JEJ5742	162404	12	7	5/8/2007	9:01:20 AM	3.09E+03	12	1	0	33	H4024	401B1	LA1S1	G02FA	BC	2		0	1.73E+01
H4024 401B1	98648	JEJ5742	162404	12	8	5/8/2007	9:02:12 AM	3.10E+03	12	1	0	33	H4024	401B1	LA1S1	G01FA	BC	3		0	1.73E+01
H4024 401B1	98648	JEJ5742	162404	12	9	5/8/2007	9:02:40 AM	3.06E+03	12	1	0	33	H4024	401B1	LA1S1	G02FA	BC	3		0	1.71E+01
H4024 401B1	98648	JEJ5742	162404	12	10	5/8/2007	9:03:56 AM	3.20E+03	12	1	0	33	H4024	401B1	LA1S1	G01FA	BC	4		0	1.79E+01
H4024 401B1	98648	JEJ5742	162404	12	11	5/8/2007	9:04:26 AM	3.01E+03	12	1	0	33	H4024	401B1	LA1S1	G02FA	BC	4		0	1.69E+01
H4024 401B1	98648	JEJ5742	162404	12	12	5/8/2007	9:06:54 AM	3.26E+03	12	1	0	33	H4024	401B1	LA1S1	G01FA	BC	5		0	1.82E+01
H4024 401B1	98648	JEJ5742	162404	12	13	5/8/2007	9:07:18 AM	3.16E+03	12	1	0	33	H4024	401B1	LA1S1	G02FA	BC	5		0	1.77E+01
H4024 401B1	98648	JEJ5742	162404	12	14	5/8/2007	9:08:02 AM	3.27E+03	12	1	0	33	H4024	401B1	LA1S1	G01FA	BC	6		0	1.83E+01
H4024 401B1	98648	JEJ5742	162404	12	15	5/8/2007	9:08:32 AM	3.26E+03	12	1	0	33	H4024	401B1	LA1S1	G02FA	BC	6		0	1.82E+01
CS313 DRT02	98648	JEJ5742	162404	12	16	5/8/2007	9:50:48 AM	1.23E+05	600	1	0	33	CS313	DRT02	LA1S1	G02CA	LAB01	1		0	1.37E+01
CS313 DRT02	98648	JEJ5742	162404	12	17	5/8/2007	9:52:56 AM	5.95E+05	30	1	0	33	CS313	DRT02	LA1S1	G01DA	LAB01	1		0	1.33E+03
CS313 DRT02	98648	JEJ5742	162404	12	18	5/8/2007	9:54:28 AM	2.84E+04	30	1	0	33	CS313	DRT02	LA1S1	G01DA	LAB01	2		0	6.37E+01
CS313 DRT02	98648	JEJ5742	162404	12	19	5/8/2007	9:55:42 AM	1.76E+04	30	1	0	33	CS313	DRT02	LA1S1	G01DA	LAB01	3		0	3.94E+01

Reviewed By: *[Signature]* Date: 5-11-07 Approved By: *[Signature]* Date: 5/13/07

Measurement Database Download Report
Exposure Rate Measurements

5/13/2007

Page 1 of 1

Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
DL050907-001	2	JLM3848	5/9/2007	4:08 PM	H4024 401B1	44-10	162404	5.36E+10													
CS313 DRT01	98648	JE15742	162404	12	0	5/9/2007	8:14:50 AM	1.19E+05	600	1	0	43	CS313	DRT01	LA1S1	G01AA	LAB01	1	0	0	1.33E+01
CS313 DRT01	98648	JE15742	162404	12	1	5/9/2007	8:17:20 AM	5.55E+05	30	1	0	43	CS313	DRT01	LA1S1	G01BA	LAB01	1	0	0	1.24E+03
CS313 DRT01	98648	JE15742	162404	12	2	5/9/2007	8:18:42 AM	2.84E+04	30	1	0	43	CS313	DRT01	LA1S1	G01BA	LAB01	2	0	0	6.36E+01
CS313 DRT01	98648	JE15742	162404	12	3	5/9/2007	8:20:12 AM	1.83E+04	30	1	0	43	CS313	DRT01	LA1S1	G01BA	LAB01	3	0	0	4.10E+01
H4024 401B1	98648	JE15742	162404	12	4	5/9/2007	10:19:00 AM	3.26E+03	12	1	0	43	H4024	401B1	LA1S1	G01FA	SSP	1	0	0	1.82E+01
H4024 401B1	98648	JE15742	162404	12	5	5/9/2007	10:19:58 AM	3.28E+03	12	1	0	43	H4024	401B1	LA1S1	G02FA	SSP	1	0	0	1.84E+01
H4024 401B1	98648	JE15742	162404	12	6	5/9/2007	10:24:18 AM	2.99E+03	12	1	0	43	H4024	401B1	LA1S1	G01FA	SSP	2	0	0	1.67E+01
H4024 401B1	98648	JE15742	162404	12	7	5/9/2007	10:24:46 AM	2.93E+03	12	1	0	43	H4024	401B1	LA1S1	G02FA	SSP	2	0	0	1.64E+01
H4024 401B1	98648	JE15742	162404	12	8	5/9/2007	10:30:18 AM	3.61E+03	12	1	0	43	H4024	401B1	LA1S1	G01FA	SSP	3	0	0	2.02E+01
H4024 401B1	98648	JE15742	162404	12	9	5/9/2007	10:30:46 AM	3.60E+03	12	1	0	43	H4024	401B1	LA1S1	G02FA	SSP	3	0	0	2.02E+01
H4024 401B1	98648	JE15742	162404	12	10	5/9/2007	10:35:40 AM	3.81E+03	12	1	0	43	H4024	401B1	LA1S1	G01FA	SSP	4	0	0	2.13E+01
H4024 401B1	98648	JE15742	162404	12	11	5/9/2007	10:36:08 AM	3.71E+03	12	1	0	43	H4024	401B1	LA1S1	G02FA	SSP	4	0	0	2.08E+01
H4024 401B1	98648	JE15742	162404	12	12	5/9/2007	10:41:08 AM	3.01E+03	12	1	0	43	H4024	401B1	LA1S1	G01FA	SSP	5	0	0	1.69E+01
H4024 401B1	98648	JE15742	162404	12	13	5/9/2007	10:41:32 AM	2.88E+03	12	1	0	43	H4024	401B1	LA1S1	G02FA	SSP	5	0	0	1.61E+01
H4024 401B1	98648	JE15742	162404	12	14	5/9/2007	10:48:12 AM	3.30E+03	12	1	0	43	H4024	401B1	LA1S1	G01FA	SSPBC	6	0	0	1.85E+01
H4024 401B1	98648	JE15742	162404	12	15	5/9/2007	10:48:40 AM	3.23E+03	12	1	0	43	H4024	401B1	LA1S1	G02FA	SSPBC	6	0	0	1.81E+01
CS313 DRT02	98648	JE15742	162404	12	16	5/9/2007	11:25:44 AM	1.22E+05	600	1	0	43	CS313	DRT02	LA1S1	G01CA	LAB01	1	0	0	1.37E+01
CS313 DRT02	98648	JE15742	162404	12	17	5/9/2007	11:36:20 AM	5.81E+05	30	1	0	43	CS313	DRT02	LA1S1	G01DA	LAB01	1	0	0	1.30E+03
CS313 DRT02	98648	JE15742	162404	12	18	5/9/2007	11:37:50 AM	2.93E+04	30	1	0	43	CS313	DRT02	LA1S1	G01DA	LAB01	2	0	0	6.57E+01
CS313 DRT02	98648	JE15742	162404	12	19	5/9/2007	11:39:08 AM	1.78E+04	30	1	0	43	CS313	DRT02	LA1S1	G01DA	LAB01	3	0	0	3.99E+01

Reviewed By: Jehey Date: 5-14-07 Approved By: Jan McJohn Date: 5/14/07

**SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA**

5/3/2007

Page C-6 of 8

Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

**Section 5.0
Sample Analysis Results – Alpha/Beta Counter
N/A Pages**

SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA

5/3/2007

Page C-7 of 8

Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Section 6.0
Sample Analysis Results – Gamma Spectroscopy
23 Pages

Gamma Spectrometry



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

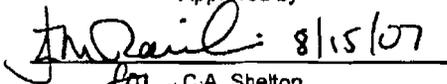
FEDERAL GRP Report Date 08/15/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-01 Client ID H4024 401B1 LA1S1 BC1 Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 08/09/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.227E+00 +/- 4.5E-02	6.5E-02	7.3E-02		bc
Ag-108m	3E-04 +/- 8.4E-03	4.2E-03	1.4E-02		
Ag-110m	-5E-03 +/- 1.7E-02	8.5E-03	2.9E-02		
Ba-140	-1.6E+00 +/- 1.6E+00	8.0E-01	3.0E+00		
Be-7	-2E-02 +/- 2.4E-01	1.2E-01	4.1E-01		
Ce-141	-3E-02 +/- 1.1E-01	5.7E-02	1.9E-01		
Ce-144	-1.3E-02 +/- 8.8E-02	4.4E-02	1.5E-01		
Co-57	-1E-03 +/- 9.1E-02	4.5E-02	1.5E-01		
Co-58	-3.2E-02 +/- 2.4E-02	1.2E-02	4.2E-02		
Co-60	4E-03 +/- 8.9E-03	4.4E-03	1.9E-02	2.0E-02	
Cr-51	-5.8E-01 +/- 8.1E-01	4.0E-01	1.4E+00		
Cs-134	-6.3E-02 +/- 4.3E-02	2.2E-02	7.2E-02	8.0E-02	
Cs-137	1.4E-02 +/- 1.0E-02	5.1E-03	1.6E-02	3.0E-02	
Eu-152	-4E-03 +/- 3.0E-02	1.5E-02	5.0E-02	1.0E-01	
Eu-154	-3E-03 +/- 3.4E-02	1.7E-02	5.8E-02	1.0E-01	
Fe-59	1.2E-02 +/- 9.4E-02	4.7E-02	1.6E-01		
K-40	2.311E+01 +/- 5.0E-01	1.2E+00	1.7E-01	3.0E-01	bc
La-140	-1.9E+00 +/- 1.8E+00	9.2E-01	3.4E+00		
Mn-54	1.8E-02 +/- 3.0E-02	1.5E-02	4.9E-02	1.0E-01	
Na-22	-1E-03 +/- 1.3E-02	6.3E-03	2.2E-02	4.0E-02	
Nb-94	4.1E-03 +/- 9.0E-03	4.5E-03	1.5E-02		
Nb-95	1.8E-02 +/- 8.8E-02	4.4E-02	1.5E-01		
Ru-103	7E-03 +/- 4.8E-02	2.4E-02	8.1E-02		
Ru-106	1E-02 +/- 1.1E-01	5.4E-02	1.8E-01		
Sb-124	-3.3E-02 +/- 4.2E-02	2.1E-02	7.8E-02		
Sb-125	4E-03 +/- 2.8E-02	1.4E-02	4.7E-02		
Se-75	-3E-03 +/- 2.3E-02	1.1E-02	3.8E-02		
Zn-65	-1.8E-02 +/- 6.7E-02	3.4E-02	1.1E-01		
Zr-95	-9E-02 +/- 2.3E-01	1.2E-01	3.8E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

Prepared by: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

FEDERAL GRF Report Date 07/11/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-02 Client ID H4024 401B1 LA1S1 BC2 Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 07/02/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma (pCi/g)				
AcTh-228	1.199E+00	+/- 6.2E-02	6.8E-02	1.1E-01		bc
Ag-108m	4E-03	+/- 1.1E-02	5.6E-03	1.9E-02		
Ag-110m	-9E-03	+/- 2.0E-02	1.0E-02	3.6E-02		
Ba-140	-2.1E-01	+/- 2.6E-01	1.3E-01	4.8E-01		
Be-7	-1E-02	+/- 2.1E-01	1.1E-01	3.6E-01		
Ce-141	2.4E-02	+/- 6.5E-02	3.3E-02	1.1E-01		
Ce-144	-3.8E-02	+/- 8.4E-02	4.2E-02	1.4E-01		
Co-57	1.5E-02	+/- 8.8E-02	4.4E-02	1.5E-01		
Co-58	-2.3E-02	+/- 2.3E-02	1.2E-02	4.2E-02		
Co-60	0E+00	+/- 1.3E-02	6.4E-03	2.8E-02	2.0E-02	a
Cr-51	1E-02	+/- 3.6E-01	1.8E-01	6.0E-01		
Cs-134	-4E-03	+/- 1.2E-02	6.0E-03	2.1E-02	8.0E-02	
Cs-137	1.6E-02	+/- 1.9E-02	9.5E-03	3.1E-02	3.0E-02	a c
Eu-152	2E-03	+/- 3.4E-02	1.7E-02	5.8E-02	1.0E-01	
Eu-154	-2E-03	+/- 5.2E-02	2.6E-02	9.0E-02	1.0E-01	
Fe-59	-7.8E-02	+/- 7.3E-02	3.7E-02	1.3E-01		
K-40	2.216E+01	+/- 7.2E-01	1.2E+00	2.5E-01	3.0E-01	bc
La-140	-2.4E-01	+/- 2.9E-01	1.5E-01	5.6E-01		
Mn-54	1.4E-02	+/- 1.7E-02	8.4E-03	2.7E-02	1.0E-01	
Na-22	2E-03	+/- 1.9E-02	9.5E-03	3.2E-02	4.0E-02	
Nb-94	2.2E-02	+/- 1.5E-02	7.5E-03	2.4E-02		
Nb-95	-4.3E-02	+/- 6.5E-02	3.3E-02	1.1E-01		
Ru-103	-2.1E-02	+/- 3.1E-02	1.6E-02	5.4E-02		
Ru-106	5E-02	+/- 1.2E-01	6.2E-02	2.1E-01		
Sb-124	1.1E-02	+/- 3.8E-02	1.9E-02	6.7E-02		
Sb-125	2.3E-02	+/- 3.6E-02	1.8E-02	6.0E-02		
Se-75	-2.6E-02	+/- 2.0E-02	1.0E-02	3.6E-02		
Zn-65	-3.8E-02	+/- 8.9E-02	4.5E-02	1.5E-01		
Zr-95	6.9E-02	+/- 4.7E-02	2.4E-02	7.5E-02		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

cc: Don McGehee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

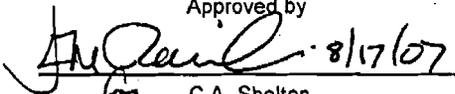
FEDERAL GRF Report Date 08/17/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-03 Client ID H4024 401B1 LA1S1 BC3 Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 08/17/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.162E+00 +/- 4.3E-02	6.2E-02	7.3E-02		bc
Ag-108m	4E-03 +/- 8.1E-03	4.1E-03	1.3E-02		
Ag-110m	-7E-03 +/- 1.7E-02	8.4E-03	2.9E-02		
Ba-140	-4.6E+00 +/- 2.8E+00	1.4E+00	5.5E+00		
Be-7	-2E-02 +/- 2.7E-01	1.4E-01	4.6E-01		
Ce-141	9E-02 +/- 2.9E-01	1.5E-01	4.9E-01		
Ce-144	1.3E-02 +/- 6.9E-02	3.4E-02	1.1E-01		
Co-57	1.4E-02 +/- 7.1E-02	3.6E-02	1.2E-01		
Co-58	2.9E-02 +/- 4.7E-02	2.4E-02	7.8E-02		
Co-60	-2.3E-03 +/- 9.2E-03	4.6E-03	2.1E-02	2.0E-02	a
Cr-51	-3.8E-01 +/- 8.1E-01	4.0E-01	1.4E+00		
Cs-134	2.9E-03 +/- 9.0E-03	4.5E-03	1.5E-02	8.0E-02	
Cs-137	8.2E-02 +/- 1.3E-02	7.9E-03	1.9E-02	3.0E-02	bc
Eu-152	-5E-03 +/- 2.4E-02	1.2E-02	4.1E-02	1.0E-01	
Eu-154	2E-03 +/- 3.9E-02	1.9E-02	6.5E-02	1.0E-01	
Fe-59	1E-02 +/- 1.0E-01	5.1E-02	1.7E-01		
K-40	2.181E+01 +/- 5.0E-01	1.1E+00	1.7E-01	3.0E-01	bc
La-140	-5.3E+00 +/- 3.3E+00	1.6E+00	6.4E+00		
Mn-54	0E+00 +/- 5.1E-02	2.6E-02	8.5E-02	1.0E-01	
Na-22	-1E-03 +/- 1.4E-02	7.2E-03	2.5E-02	4.0E-02	
Nb-94	1E-03 +/- 1.0E-02	5.0E-03	1.7E-02		
Nb-95	1E-01 +/- 1.1E-01	5.3E-02	1.7E-01		
Ru-103	-9E-03 +/- 4.9E-02	2.4E-02	8.3E-02		
Ru-106	-1.7E-02 +/- 9.6E-02	4.8E-02	1.6E-01		
Sb-124	0E+00 +/- 4.7E-02	2.4E-02	8.4E-02		
Sb-125	1.6E-02 +/- 2.8E-02	1.4E-02	4.6E-02		
Se-75	-4E-03 +/- 1.9E-02	9.6E-03	3.2E-02		
Zn-65	-5.6E-02 +/- 6.9E-02	3.5E-02	1.2E-01		
Zr-95	5E-02 +/- 5.3E-02	2.7E-02	8.7E-02		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Re: ing Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

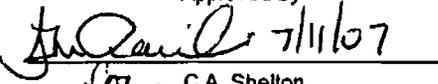
FEDERAL GRF Report Date 07/11/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-04 Client ID H4024 401B1 LA1S1 BC4 Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 07/02/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma				
AcTh-228	1.158E+00	+/- 3.8E-02	6.1E-02	6.6E-02		bc
Ag-108m	8E-04	+/- 7.1E-03	3.6E-03	1.2E-02		
Ag-110m	2E-03	+/- 1.8E-02	9.0E-03	3.0E-02		
Ba-140	-1.7E-01	+/- 1.7E-01	8.5E-02	3.2E-01		
Be-7	-1E-01	+/- 1.2E-01	6.2E-02	2.1E-01		
Ce-141	-4E-03	+/- 4.3E-02	2.1E-02	7.1E-02		
Ce-144	4.8E-02	+/- 6.7E-02	3.4E-02	1.1E-01		
Co-57	-6.3E-02	+/- 6.9E-02	3.5E-02	1.2E-01		
Co-58	-3E-03	+/- 2.4E-02	1.2E-02	4.1E-02		
Co-60	4.9E-03	+/- 7.2E-03	3.6E-03	1.5E-02	2.0E-02	
Cr-51	-2.5E-01	+/- 2.6E-01	1.3E-01	4.4E-01		
Cs-134	-4.6E-03	+/- 8.1E-03	4.1E-03	1.4E-02	8.0E-02	
Cs-137	5.27E-02	+/- 9.1E-03	5.3E-03	1.2E-02	3.0E-02	bc
Eu-152	5E-03	+/- 2.4E-02	1.2E-02	4.1E-02	1.0E-01	
Eu-154	3E-03	+/- 2.8E-02	1.4E-02	4.8E-02	1.0E-01	
Fe-59	-2.3E-02	+/- 4.3E-02	2.2E-02	7.4E-02		
K-40	2.184E+01	+/- 4.2E-01	1.1E+00	1.4E-01	3.0E-01	bc
La-140	-2E-01	+/- 1.9E-01	9.8E-02	3.6E-01		
Mn-54	1.5E-02	+/- 3.0E-02	1.5E-02	4.9E-02	1.0E-01	
Na-22	-3E-03	+/- 1.0E-02	5.2E-03	1.8E-02	4.0E-02	
Nb-94	8.5E-03	+/- 7.6E-03	3.8E-03	1.2E-02		
Nb-95	1.2E-02	+/- 3.7E-02	1.8E-02	6.2E-02		
Ru-103	-1.9E-02	+/- 2.0E-02	1.0E-02	3.5E-02		
Ru-106	1.4E-02	+/- 8.4E-02	4.2E-02	1.4E-01		
Sb-124	1.3E-02	+/- 2.1E-02	1.1E-02	3.5E-02		
Sb-125	-4E-03	+/- 2.3E-02	1.1E-02	3.8E-02		
Se-75	-1E-02	+/- 1.5E-02	7.7E-03	2.6E-02		
Zn-65	0E+00	+/- 4.8E-02	2.4E-02	8.0E-02		
Zr-95	-3E-02	+/- 1.2E-01	6.1E-02	2.0E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Counting Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

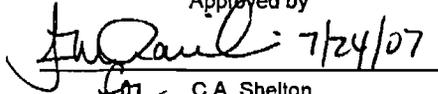
FEDERAL GRP Report Date 07/23/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-05 Client ID H4024 401B1 LA1S1 BC5 Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 07/20/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.256E+00 +/- 2.5E-02	6.4E-02	3.9E-02		bc
Ag-108m	4.9E-03 +/- 5.2E-03	2.6E-03	8.5E-03		
Ag-110m	-5E-04 +/- 8.7E-03	4.4E-03	1.5E-02		
Ba-140	-2E-01 +/- 3.5E-01	1.7E-01	6.0E-01		
Be-7	-1.4E-01 +/- 1.8E-01	9.1E-02	3.0E-01		
Ce-141	5.3E-02 +/- 4.7E-02	2.4E-02	7.8E-02		
Ce-144	2.1E-02 +/- 5.4E-02	2.7E-02	8.8E-02		
Co-57	-8E-03 +/- 5.5E-02	2.7E-02	9.1E-02		
Co-58	-1.2E-02 +/- 1.8E-02	8.8E-03	3.0E-02		
Co-60	-5E-04 +/- 4.6E-03	2.3E-03	1.0E-02	2.0E-02	
Cr-51	-8E-02 +/- 3.0E-01	1.5E-01	5.0E-01		
Cs-134	-4.1E-02 +/- 2.5E-02	1.2E-02	4.1E-02	8.0E-02	
Cs-137	2.82E-02 +/- 5.5E-03	3.1E-03	8.2E-03	3.0E-02	bc
Eu-152	-3E-02 +/- 1.8E-02	9.2E-03	3.1E-02	1.0E-01	
Eu-154	-1.2E-02 +/- 2.0E-02	9.9E-03	3.4E-02	1.0E-01	
Fe-59	-3.9E-02 +/- 3.7E-02	1.9E-02	6.3E-02		
K-40	2.077E+01 +/- 2.7E-01	1.0E+00	8.5E-02	3.0E-01	bc
La-140	-2.3E-01 +/- 4.0E-01	2.0E-01	6.9E-01		
Mn-54	3E-03 +/- 1.7E-02	8.3E-03	2.7E-02	1.0E-01	
Na-22	-5.1E-03 +/- 7.3E-03	3.7E-03	1.2E-02	4.0E-02	
Nb-94	3.2E-03 +/- 5.5E-03	2.7E-03	9.0E-03		
Nb-95	4.2E-02 +/- 3.2E-02	1.6E-02	5.3E-02		
Ru-103	5E-03 +/- 1.8E-02	8.8E-03	2.9E-02		
Ru-106	7E-03 +/- 5.7E-02	2.9E-02	9.6E-02		
Sb-124	-3E-02 +/- 2.8E-02	1.4E-02	5.1E-02		
Sb-125	7E-03 +/- 1.7E-02	8.4E-03	2.8E-02		
Se-75	-2.2E-02 +/- 1.1E-02	5.7E-03	1.9E-02		
Zn-65	-1E-03 +/- 3.4E-02	1.7E-02	5.6E-02		
Zr-95	-1.3E-02 +/- 2.8E-02	1.4E-02	4.6E-02		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Printing Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

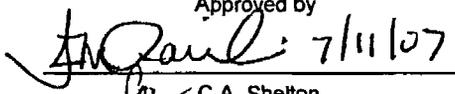
FEDERAL GRF Report Date 07/11/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-06 Client ID H4024 401B1 LA1S1 BC6 Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 07/02/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma				
AcTh-228	1.123E+00	+/- 6.3E-02	6.4E-02	1.1E-01		bc
Ag-108m	-3E-03	+/- 1.1E-02	5.6E-03	1.9E-02		
Ag-110m	-4E-03	+/- 2.1E-02	1.0E-02	3.6E-02		
Ba-140	-3.3E-01	+/- 2.7E-01	1.4E-01	5.3E-01		
Be-7	-1.8E-01	+/- 2.2E-01	1.1E-01	3.8E-01		
Ce-141	3.1E-02	+/- 6.4E-02	3.2E-02	1.1E-01		
Ce-144	1.9E-02	+/- 8.4E-02	4.2E-02	1.4E-01		
Co-57	-3.6E-02	+/- 8.7E-02	4.3E-02	1.5E-01		
Co-58	-1.3E-02	+/- 2.4E-02	1.2E-02	4.2E-02		
Co-60	-1.1E-02	+/- 1.3E-02	6.3E-03	3.0E-02	2.0E-02	a
Cr-51	2.7E-01	+/- 3.5E-01	1.7E-01	5.7E-01		
Cs-134	4E-03	+/- 1.2E-02	6.0E-03	2.0E-02	8.0E-02	
Cs-137	2.4E-02	+/- 2.0E-02	1.0E-02	3.2E-02	3.0E-02	a c
Eu-152	-8E-03	+/- 3.4E-02	1.7E-02	5.8E-02	1.0E-01	
Eu-154	3.6E-02	+/- 5.4E-02	2.7E-02	8.9E-02	1.0E-01	
Fe-59	-2.2E-02	+/- 7.4E-02	3.7E-02	1.3E-01		
K-40	2.065E+01	+/- 7.1E-01	1.1E+00	2.3E-01	3.0E-01	bc
La-140	-3.8E-01	+/- 3.2E-01	1.6E-01	6.1E-01		
Mn-54	-1E-03	+/- 1.7E-02	8.7E-03	3.0E-02	1.0E-01	
Na-22	7E-03	+/- 2.0E-02	1.0E-02	3.4E-02	4.0E-02	
Nb-94	1.2E-02	+/- 1.4E-02	7.1E-03	2.3E-02		
Nb-95	-2.8E-02	+/- 5.7E-02	2.8E-02	9.8E-02		
Ru-103	-2.4E-02	+/- 3.1E-02	1.6E-02	5.5E-02		
Ru-106	6E-02	+/- 1.3E-01	6.4E-02	2.1E-01		
Sb-124	0E+00	+/- 3.6E-02	1.8E-02	6.7E-02		
Sb-125	1.4E-02	+/- 3.8E-02	1.9E-02	6.3E-02		
Se-75	-9E-03	+/- 2.1E-02	1.0E-02	3.5E-02		
Zn-65	-1.6E-02	+/- 8.7E-02	4.3E-02	1.5E-01		
Zr-95	2.7E-02	+/- 4.5E-02	2.3E-02	7.5E-02		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 C.A. Shelton
 Sample Control & Measurements Lead

Counting Level Ratio:

CC: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

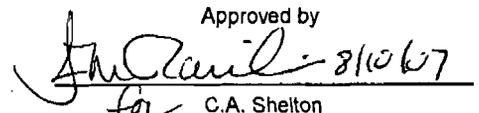
FEDERAL GRF Report Date 08/10/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-07 Client ID H4024 401B1 LA1S1 WC1 Product GAMMA SPECTROMETRY
Reference Date 05/04/07 Analysis Date 07/20/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma				
AcTh-228	1.188E+00	+/- 3.3E-02	6.2E-02	5.8E-02		bc
Ag-108m	-2.1E-03	+/- 6.3E-03	3.2E-03	1.1E-02		
Ag-110m	-2E-03	+/- 1.2E-02	6.1E-03	2.1E-02		
Ba-140	-4.3E-01	+/- 5.8E-01	2.9E-01	1.0E+00		
Be-7	2.2E-01	+/- 3.0E-01	1.5E-01	5.0E-01		c
Ce-141	-1E-02	+/- 1.1E-01	5.6E-02	1.9E-01		
Ce-144	1.5E-02	+/- 5.0E-02	2.5E-02	8.3E-02		
Co-57	1.9E-02	+/- 5.2E-02	2.6E-02	8.6E-02		
Co-58	-3E-03	+/- 2.8E-02	1.4E-02	4.6E-02		
Co-60	-1E-04	+/- 7.0E-03	3.5E-03	1.6E-02	2.0E-02	
Cr-51	-2.7E-01	+/- 3.5E-01	1.7E-01	5.9E-01		
Cs-134	4E-04	+/- 7.0E-03	3.5E-03	1.2E-02	8.0E-02	
Cs-137	1.65E-02	+/- 9.8E-03	5.0E-03	1.6E-02	3.0E-02	bc
Eu-152	-5E-03	+/- 1.9E-02	9.4E-03	3.2E-02	1.0E-01	
Eu-154	-2.2E-02	+/- 3.0E-02	1.5E-02	5.2E-02	1.0E-01	
Fe-59	-2.6E-02	+/- 5.6E-02	2.8E-02	9.6E-02		
K-40	2.057E+01	+/- 3.8E-01	1.0E+00	1.4E-01	3.0E-01	bc
La-140	-5E-01	+/- 6.7E-01	3.3E-01	1.2E+00		
Mn-54	2E-03	+/- 2.3E-02	1.1E-02	3.8E-02	1.0E-01	
Na-22	-8E-03	+/- 1.1E-02	5.6E-03	1.9E-02	4.0E-02	
Nb-94	2.7E-03	+/- 7.4E-03	3.7E-03	1.2E-02		
Nb-95	2.2E-02	+/- 5.4E-02	2.7E-02	8.9E-02		
Ru-103	-1.2E-02	+/- 2.5E-02	1.2E-02	4.2E-02		
Ru-106	-4.4E-02	+/- 7.1E-02	3.5E-02	1.2E-01		
Sb-124	9E-03	+/- 2.8E-02	1.4E-02	4.7E-02		
Sb-125	-8E-03	+/- 2.1E-02	1.0E-02	3.5E-02		
Se-75	-8E-03	+/- 1.3E-02	6.5E-03	2.2E-02		
Zn-65	2.3E-02	+/- 5.1E-02	2.5E-02	8.4E-02		
Zr-95	8E-02	+/- 1.6E-01	8.1E-02	2.7E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

c: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

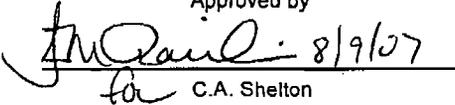
FEDERAL GRP Report Date 08/08/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-08 Client ID H4024 401B1 LA1S1 WC2 Product GAMMA SPECTROMETRY
 Reference Date 05/04/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.179E+00 +/- 4.9E-02	6.4E-02	7.9E-02		bc
Ag-108m	1.6E-03 +/- 9.0E-03	4.5E-03	1.5E-02		
Ag-110m	-8E-03 +/- 1.9E-02	9.3E-03	3.2E-02		
Ba-140	-8E-01 +/- 2.0E+00	1.0E+00	3.6E+00		
Be-7	-3.2E-01 +/- 2.7E-01	1.4E-01	4.8E-01		
Ce-141	5E-02 +/- 1.3E-01	6.6E-02	2.2E-01		
Ce-144	6.8E-02 +/- 9.7E-02	4.8E-02	1.6E-01		
Co-57	2.2E-02 +/- 9.9E-02	5.0E-02	1.6E-01		
Co-58	-1.9E-02 +/- 4.1E-02	2.0E-02	6.9E-02		
Co-60	2E-04 +/- 8.9E-03	4.4E-03	2.0E-02	2.0E-02	
Cr-51	7.1E-01 +/- 9.1E-01	4.6E-01	1.5E+00		
Cs-134	-1E-03 +/- 1.1E-02	5.4E-03	1.8E-02	8.0E-02	
Cs-137	-2E-03 +/- 1.1E-02	5.6E-03	1.9E-02	3.0E-02	
Eu-152	-4E-03 +/- 3.2E-02	1.6E-02	5.3E-02	1.0E-01	
Eu-154	1.1E-02 +/- 3.7E-02	1.8E-02	6.2E-02	1.0E-01	
Fe-59	-3E-02 +/- 1.0E-01	5.1E-02	1.8E-01		
K-40	1.954E+01 +/- 5.1E-01	1.0E+00	1.8E-01	3.0E-01	bc
La-140	-1E+00 +/- 2.3E+00	1.2E+00	4.1E+00		
Mn-54	0E+00 +/- 4.9E-02	2.4E-02	8.1E-02	1.0E-01	
Na-22	0E+00 +/- 1.4E-02	6.8E-03	2.3E-02	4.0E-02	
Nb-94	7.1E-03 +/- 9.5E-03	4.8E-03	1.6E-02		
Nb-95	-9E-02 +/- 1.1E-01	5.3E-02	1.8E-01		
Ru-103	-3E-02 +/- 5.5E-02	2.8E-02	9.5E-02		
Ru-106	4E-02 +/- 1.1E-01	5.7E-02	1.9E-01		
Sb-124	2E-03 +/- 4.5E-02	2.2E-02	8.0E-02		
Sb-125	1.8E-02 +/- 3.0E-02	1.5E-02	5.0E-02		
Se-75	-1E-03 +/- 2.5E-02	1.3E-02	4.2E-02		
Zn-65	-1.5E-02 +/- 7.3E-02	3.7E-02	1.2E-01		
Zr-95	1E-01 +/- 2.5E-01	1.3E-01	4.2E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

c: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

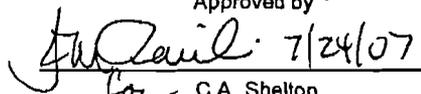
FEDERAL GRF Report Date 07/23/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-09 Client ID H4024 401B1 LA1S1 WC3 Product GAMMA SPECTROMETRY
 Reference Date 05/04/07 Analysis Date 07/20/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.046E+00 +/- 2.0E-02	5.3E-02	3.0E-02		bc
Ag-108m	7E-04 +/- 4.1E-03	2.0E-03	6.7E-03		
Ag-110m	-1.4E-03 +/- 7.2E-03	3.6E-03	1.2E-02		
Ba-140	-5.9E-01 +/- 3.5E-01	1.8E-01	6.2E-01		
Be-7	-3.3E-02 +/- 9.6E-02	4.8E-02	1.6E-01		
Ce-141	1E-02 +/- 1.1E-01	5.4E-02	1.8E-01		
Ce-144	1E-02 +/- 4.2E-02	2.1E-02	6.9E-02		
Co-57	-3E-03 +/- 4.3E-02	2.1E-02	7.1E-02		
Co-58	0E+00 +/- 1.4E-02	7.2E-03	2.4E-02		
Co-60	-2.2E-03 +/- 3.8E-03	1.9E-03	8.5E-03	2.0E-02	
Cr-51	3E-02 +/- 2.6E-01	1.3E-01	4.3E-01		
Cs-134	2.7E-03 +/- 3.9E-03	1.9E-03	6.4E-03	8.0E-02	
Cs-137	2.26E-02 +/- 4.3E-03	2.4E-03	6.4E-03	3.0E-02	bc
Eu-152	-2E-02 +/- 1.4E-02	7.1E-03	2.4E-02	1.0E-01	
Eu-154	3E-03 +/- 2.9E-02	1.5E-02	4.8E-02	1.0E-01	
Fe-59	-2E-02 +/- 3.3E-02	1.6E-02	5.5E-02		
K-40	2.126E+01 +/- 2.2E-01	1.1E+00	6.7E-02	3.0E-01	bc
La-140	-6.8E-01 +/- 4.0E-01	2.0E-01	7.1E-01		
Mn-54	2E-03 +/- 8.2E-03	4.1E-03	1.4E-02	1.0E-01	
Na-22	-1E-03 +/- 1.0E-02	5.2E-03	1.7E-02	4.0E-02	
Nb-94	5E-03 +/- 4.7E-03	2.4E-03	7.8E-03		
Nb-95	4.6E-02 +/- 3.4E-02	1.7E-02	5.6E-02		
Ru-103	-9E-03 +/- 1.5E-02	7.3E-03	2.5E-02		
Ru-106	3.9E-02 +/- 4.6E-02	2.3E-02	7.6E-02		
Sb-124	-1E-03 +/- 1.5E-02	7.4E-03	2.5E-02		
Sb-125	-2E-03 +/- 1.3E-02	6.6E-03	2.2E-02		
Se-75	-1.26E-02 +/- 8.9E-03	4.5E-03	1.5E-02		
Zn-65	4E-03 +/- 3.7E-02	1.8E-02	6.1E-02		
Zr-95	-4E-03 +/- 2.2E-02	1.1E-02	3.7E-02		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/15/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-10 Client ID H4024 401B1 LA1S1 WC4 Product GAMMA SPECTROMETRY
Reference Date 05/04/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma				
AcTh-228	1.021E+00	+/- 4.7E-02	5.6E-02	8.2E-02		bc
Ag-108m	-4.6E-03	+/- 9.0E-03	4.5E-03	1.5E-02		
Ag-110m	1.2E-02	+/- 1.9E-02	9.3E-03	3.1E-02		
Ba-140	1.2E+00	+/- 1.3E+00	6.5E-01	2.1E+00		
Be-7	-1.9E-01	+/- 2.6E-01	1.3E-01	4.6E-01		
Ce-141	3E-02	+/- 1.3E-01	6.4E-02	2.1E-01		
Ce-144	5.2E-02	+/- 9.3E-02	4.6E-02	1.5E-01		
Co-57	-7.2E-02	+/- 9.5E-02	4.8E-02	1.6E-01		
Co-58	-6E-03	+/- 2.4E-02	1.2E-02	4.2E-02		
Co-60	-1.4E-03	+/- 9.0E-03	4.5E-03	1.9E-02	2.0E-02	
Cr-51	6E-02	+/- 9.1E-01	4.5E-01	1.5E+00		
Cs-134	-1E-03	+/- 1.1E-02	5.4E-03	1.8E-02	8.0E-02	
Cs-137	8.6E-02	+/- 1.5E-02	8.8E-03	2.1E-02	3.0E-02	bc
Eu-152	-1.2E-02	+/- 3.1E-02	1.6E-02	5.3E-02	1.0E-01	
Eu-154	2E-03	+/- 3.7E-02	1.9E-02	6.3E-02	1.0E-01	
Fe-59	-1.2E-01	+/- 1.0E-01	5.2E-02	1.8E-01		
K-40	2.16E+01	+/- 5.3E-01	1.1E+00	1.7E-01	3.0E-01	bc
La-140	1.3E+00	+/- 1.5E+00	7.4E-01	2.4E+00		
Mn-54	2E-03	+/- 1.4E-02	7.1E-03	2.4E-02	1.0E-01	
Na-22	8E-03	+/- 1.4E-02	6.9E-03	2.3E-02	4.0E-02	
Nb-94	8E-03	+/- 2.5E-02	1.2E-02	4.1E-02		
Nb-95	2E-02	+/- 1.0E-01	5.0E-02	1.7E-01		
Ru-103	2.9E-02	+/- 5.3E-02	2.6E-02	8.7E-02		
Ru-106	-1E-02	+/- 1.1E-01	5.4E-02	1.8E-01		
Sb-124	3.6E-02	+/- 4.1E-02	2.0E-02	6.6E-02		
Sb-125	1.4E-02	+/- 2.9E-02	1.5E-02	4.8E-02		
Se-75	-3E-03	+/- 2.5E-02	1.2E-02	4.2E-02		
Zn-65	-1.1E-02	+/- 7.1E-02	3.6E-02	1.2E-01		
Zr-95	0E+00	+/- 6.8E-01	3.4E-01	1.1E+00		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

John Shelton 8/15/07
for C.A. Shelton

Sample Control & Measurements Lead

Reporting Level Ratio:

Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

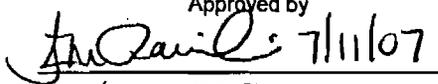
FEDERAL GRF Report Date 07/11/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-11 Client ID H4024 401B1 LA1S1 WC5 Product GAMMA SPECTROMETRY
 Reference Date 05/04/07 Analysis Date 07/03/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.061E+00 +/- 6.5E-02	6.2E-02	1.2E-01		bc
Ag-108m	-3E-03 +/- 1.3E-02	6.3E-03	2.2E-02		
Ag-110m	-1.2E-02 +/- 2.4E-02	1.2E-02	4.2E-02		
Ba-140	-1.5E-01 +/- 5.1E-01	2.5E-01	9.2E-01		
Be-7	8E-02 +/- 2.6E-01	1.3E-01	4.3E-01		
Ce-141	5.5E-02 +/- 7.9E-02	4.0E-02	1.3E-01		
Ce-144	-3.9E-02 +/- 9.4E-02	4.7E-02	1.6E-01		
Co-57	2.7E-02 +/- 9.8E-02	4.9E-02	1.6E-01		
Co-58	1E-03 +/- 2.6E-02	1.3E-02	4.5E-02		
Co-60	2E-03 +/- 1.4E-02	6.8E-03	3.0E-02	2.0E-02	a
Cr-51	-8E-02 +/- 4.5E-01	2.3E-01	7.8E-01		
Cs-134	1.2E-02 +/- 1.3E-02	6.7E-03	2.2E-02	8.0E-02	
Cs-137	0E+00 +/- 1.6E-02	8.0E-03	2.8E-02	3.0E-02	
Eu-152	-9E-03 +/- 3.8E-02	1.9E-02	6.6E-02	1.0E-01	
Eu-154	5.5E-02 +/- 6.0E-02	3.0E-02	9.8E-02	1.0E-01	
Fe-59	3.3E-02 +/- 8.9E-02	4.4E-02	1.5E-01		
K-40	2.049E+01 +/- 7.7E-01	1.1E+00	2.8E-01	3.0E-01	bc
La-140	-1.7E-01 +/- 5.8E-01	2.9E-01	1.1E+00		
Mn-54	1.1E-02 +/- 1.9E-02	9.6E-03	3.2E-02	1.0E-01	
Na-22	1.6E-02 +/- 2.2E-02	1.1E-02	3.7E-02	4.0E-02	
Nb-94	8E-03 +/- 1.5E-02	7.7E-03	2.6E-02		
Nb-95	-5.2E-02 +/- 9.0E-02	4.5E-02	1.5E-01		
Ru-103	0E+00 +/- 3.6E-02	1.8E-02	6.2E-02		
Ru-106	3E-02 +/- 1.3E-01	6.7E-02	2.3E-01		
Sb-124	-1E-02 +/- 4.3E-02	2.2E-02	8.3E-02		
Sb-125	2.8E-02 +/- 4.0E-02	2.0E-02	6.7E-02		
Se-75	-1E-03 +/- 2.4E-02	1.2E-02	4.0E-02		
Zn-65	4.9E-02 +/- 9.4E-02	4.7E-02	1.6E-01		
Zr-95	3E-02 +/- 5.2E-02	2.6E-02	8.7E-02		

Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

CC: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/15/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-12 Client ID H4024 401B1 LA1S1 WC6 Product GAMMA SPECTROMETRY
Reference Date 05/04/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	9.5E-01 +/- 4.0E-02	5.2E-02	6.9E-02		bc
Ag-108m	-1.2E-03 +/- 7.8E-03	3.9E-03	1.3E-02		
Ag-110m	-1E-02 +/- 1.6E-02	8.0E-03	2.8E-02		
Ba-140	-8E-01 +/- 1.8E+00	8.9E-01	3.2E+00		
Be-7	-1E-01 +/- 2.3E-01	1.2E-01	4.0E-01		
Ce-141	3E-02 +/- 1.0E-01	5.2E-02	1.7E-01		
Ce-144	3.6E-02 +/- 6.4E-02	3.2E-02	1.1E-01		
Co-57	-1.2E-02 +/- 6.7E-02	3.3E-02	1.1E-01		
Co-58	-7E-03 +/- 2.4E-02	1.2E-02	4.1E-02		
Co-60	7.5E-03 +/- 9.0E-03	4.5E-03	2.0E-02	2.0E-02	a
Cr-51	5.2E-01 +/- 6.8E-01	3.4E-01	1.1E+00		
Cs-134	-5.8E-03 +/- 8.6E-03	4.3E-03	1.5E-02	8.0E-02	
Cs-137	1.04E-02 +/- 8.6E-03	4.3E-03	1.4E-02	3.0E-02	c
Eu-152	1.2E-02 +/- 2.3E-02	1.2E-02	3.9E-02	1.0E-01	
Eu-154	-2E-03 +/- 3.9E-02	2.0E-02	6.7E-02	1.0E-01	
Fe-59	-2.1E-02 +/- 9.2E-02	4.6E-02	1.6E-01		
K-40	2.024E+01 +/- 5.0E-01	1.0E+00	1.6E-01	3.0E-01	bc
La-140	-9E-01 +/- 2.1E+00	1.0E+00	3.7E+00		
Mn-54	-1E-02 +/- 1.0E-02	5.1E-03	1.8E-02	1.0E-01	
Na-22	-1E-02 +/- 1.5E-02	7.5E-03	2.6E-02	4.0E-02	
Nb-94	8.1E-03 +/- 9.7E-03	4.9E-03	1.6E-02		
Nb-95	-7E-02 +/- 1.1E-01	5.7E-02	1.9E-01		
Ru-103	1.9E-02 +/- 4.2E-02	2.1E-02	7.0E-02		
Ru-106	1.3E-02 +/- 9.5E-02	4.7E-02	1.6E-01		
Sb-124	9E-03 +/- 4.0E-02	2.0E-02	7.0E-02		
Sb-125	-1.4E-02 +/- 2.6E-02	1.3E-02	4.5E-02		
Se-75	-1.6E-02 +/- 1.8E-02	9.1E-03	3.1E-02		
Zn-65	-4.9E-02 +/- 6.6E-02	3.3E-02	1.1E-01		
Zr-95	1E-01 +/- 2.0E-01	1.0E-01	3.4E-01		

- Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by
[Signature] 8/15/07
C.A. Shelton
Sample Control & Measurements Lead

cc: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/06/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-13 Client ID H4024 401B1 LA1S1 SSP1 Product GAMMA SPECTROMETRY
Reference Date 05/09/07 Analysis Date 08/06/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.236E+00 +/- 5.6E-02	6.8E-02	1.1E-01		bc
Ag-108m	-7E-03 +/- 1.1E-02	5.7E-03	2.0E-02		
Ag-110m	-1.6E-02 +/- 2.1E-02	1.1E-02	3.8E-02		
Ba-140	-2.9E+00 +/- 2.2E+00	1.1E+00	4.3E+00		
Be-7	-9E-02 +/- 3.2E-01	1.6E-01	5.4E-01		
Ce-141	7E-02 +/- 1.3E-01	6.5E-02	2.2E-01		
Ce-144	2.5E-02 +/- 9.1E-02	4.5E-02	1.5E-01		
Co-57	6.4E-02 +/- 9.4E-02	4.7E-02	1.5E-01		
Co-58	3.7E-02 +/- 5.8E-02	2.9E-02	9.5E-02		
Co-60	1E-02 +/- 1.3E-02	6.4E-03	2.9E-02	2.0E-02	a
Cr-51	-1.4E-01 +/- 8.0E-01	4.0E-01	1.4E+00		
Cs-134	-1.2E-02 +/- 1.2E-02	6.2E-03	2.2E-02	8.0E-02	
Cs-137	7.4E-02 +/- 1.6E-02	8.9E-03	2.3E-02	3.0E-02	bc
Eu-152	-3.4E-02 +/- 3.4E-02	1.7E-02	5.8E-02	1.0E-01	
Eu-154	-1.7E-02 +/- 5.4E-02	2.7E-02	9.3E-02	1.0E-01	
Fe-59	1E-02 +/- 1.2E-01	5.8E-02	2.0E-01		
K-40	2.319E+01 +/- 6.8E-01	1.2E+00	2.5E-01	3.0E-01	bc
La-140	-3.3E+00 +/- 2.5E+00	1.3E+00	4.9E+00		
Mn-54	1.2E-02 +/- 1.7E-02	8.5E-03	2.8E-02	1.0E-01	
Na-22	-6E-03 +/- 2.0E-02	1.0E-02	3.5E-02	4.0E-02	
Nb-94	1.5E-02 +/- 2.4E-02	1.2E-02	4.0E-02		
Nb-95	2E-02 +/- 1.2E-01	5.9E-02	2.0E-01		
Ru-103	1E-02 +/- 5.5E-02	2.8E-02	9.3E-02		
Ru-106	4E-02 +/- 1.3E-01	6.5E-02	2.2E-01		
Sb-124	2.3E-02 +/- 5.6E-02	2.8E-02	9.6E-02		
Sb-125	-3E-03 +/- 3.7E-02	1.9E-02	6.3E-02		
Se-75	-1.8E-02 +/- 2.5E-02	1.2E-02	4.2E-02		
Zn-65	1E-02 +/- 9.6E-02	4.8E-02	1.6E-01		
Zr-95	-1E-03 +/- 7.4E-02	3.7E-02	1.3E-01		

- Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Reporting Level Ratio:

c: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/15/07
Receipt Date 06/19/07

AREVA NP Inc.
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-14 Client ID H4024 401B1 LA1S1 SSP2 Product GAMMA SPECTROMETRY
Reference Date 05/09/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	8.74E-01 +/- 3.8E-02	4.8E-02	7.5E-02		bc
Ag-108m	-1.1E-03 +/- 7.3E-03	3.7E-03	1.2E-02		
Ag-110m	-5E-03 +/- 1.6E-02	7.8E-03	2.8E-02		
Ba-140	-1.8E+00 +/- 1.4E+00	7.0E-01	2.7E+00		
Be-7	1E-01 +/- 2.1E-01	1.0E-01	3.5E-01		
Ce-141	0E+00 +/- 8.8E-02	4.4E-02	1.5E-01		
Ce-144	-1.1E-02 +/- 7.1E-02	3.5E-02	1.2E-01		
Co-57	2E-02 +/- 7.3E-02	3.6E-02	1.2E-01		
Co-58	-8E-03 +/- 2.0E-02	1.0E-02	3.5E-02		
Co-60	-2.9E-03 +/- 8.7E-03	4.4E-03	1.9E-02	2.0E-02	
Cr-51	1E-02 +/- 6.3E-01	3.2E-01	1.1E+00		
Cs-134	-2.9E-02 +/- 3.9E-02	1.9E-02	6.4E-02	8.0E-02	
Cs-137	1.15E-02 +/- 9.5E-03	4.8E-03	1.5E-02	3.0E-02	c
Eu-152	-1.1E-02 +/- 2.5E-02	1.2E-02	4.2E-02	1.0E-01	
Eu-154	-2.1E-02 +/- 3.6E-02	1.8E-02	6.3E-02	1.0E-01	
Fe-59	-1.6E-02 +/- 8.2E-02	4.1E-02	1.4E-01		
K-40	2.057E+01 +/- 4.7E-01	1.1E+00	1.6E-01	3.0E-01	bc
La-140	-2.1E+00 +/- 1.6E+00	8.0E-01	3.1E+00		
Mn-54	1E-03 +/- 1.1E-02	5.5E-03	1.9E-02	1.0E-01	
Na-22	-1.2E-02 +/- 1.4E-02	6.8E-03	2.4E-02	4.0E-02	
Nb-94	8E-03 +/- 8.9E-03	4.5E-03	1.5E-02		
Nb-95	-9.4E-02 +/- 7.5E-02	3.8E-02	1.3E-01		
Ru-103	1.9E-02 +/- 3.7E-02	1.8E-02	6.1E-02		
Ru-106	5.9E-02 +/- 9.5E-02	4.8E-02	1.6E-01		
Sb-124	-5E-03 +/- 3.7E-02	1.8E-02	6.6E-02		
Sb-125	-1.6E-02 +/- 2.4E-02	1.2E-02	4.1E-02		
Se-75	-1.1E-02 +/- 1.6E-02	8.2E-03	2.8E-02		
Zn-65	-1.4E-02 +/- 6.4E-02	3.2E-02	1.1E-01		
Zr-95	4.5E-02 +/- 4.7E-02	2.4E-02	7.9E-02		

- Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Approved by
[Signature] 8/15/07
for C.A. Shelton
Sample Control & Measurements Lead

Reporting Level Ratio:

CC: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

FEDERAL GRF Report Date 08/17/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-15 Client ID H4024 401B1 LA1S1 SSP3 Product GAMMA SPECTROMETRY
 Reference Date 05/09/07 Analysis Date 08/16/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.313E+00 +/- 6.0E-02	7.2E-02	1.1E-01		bc
Ag-108m	3E-03 +/- 1.1E-02	5.5E-03	1.9E-02		
Ag-110m	1.3E-02 +/- 2.2E-02	1.1E-02	3.7E-02		
Ba-140	-4.6E+00 +/- 3.5E+00	1.7E+00	6.9E+00		
Be-7	1.4E-01 +/- 3.5E-01	1.8E-01	5.8E-01		
Ce-141	1.3E-01 +/- 1.6E-01	8.1E-02	2.6E-01		
Ce-144	5E-03 +/- 9.2E-02	4.6E-02	1.5E-01		
Co-57	-7E-03 +/- 9.5E-02	4.8E-02	1.6E-01		
Co-58	-4.1E-02 +/- 6.1E-02	3.1E-02	1.0E-01		
Co-60	-2E-03 +/- 1.2E-02	6.0E-03	2.6E-02	2.0E-02	a
Cr-51	-1.5E+00 +/- 1.0E+00	5.2E-01	1.8E+00		
Cs-134	2E-03 +/- 1.2E-02	6.1E-03	2.1E-02	8.0E-02	
Cs-137	-1.7E-02 +/- 1.3E-02	6.7E-03	2.4E-02	3.0E-02	
Eu-152	-1E-03 +/- 3.2E-02	1.6E-02	5.4E-02	1.0E-01	
Eu-154	-2.5E-02 +/- 5.1E-02	2.5E-02	8.9E-02	1.0E-01	
Fe-59	-6E-02 +/- 1.4E-01	6.9E-02	2.4E-01		
K-40	2.268E+01 +/- 6.7E-01	1.2E+00	2.3E-01	3.0E-01	bc
La-140	-5.3E+00 +/- 4.0E+00	2.0E+00	7.9E+00		
Mn-54	1.3E-02 +/- 1.8E-02	9.1E-03	3.0E-02	1.0E-01	
Na-22	-5E-03 +/- 1.9E-02	9.5E-03	3.3E-02	4.0E-02	
Nb-94	3E-03 +/- 1.3E-02	6.7E-03	2.3E-02		
Nb-95	-1E-01 +/- 1.5E-01	7.4E-02	2.5E-01		
Ru-103	8E-03 +/- 6.4E-02	3.2E-02	1.1E-01		
Ru-106	-4E-02 +/- 1.3E-01	6.5E-02	2.3E-01		
Sb-124	1.1E-02 +/- 5.6E-02	2.8E-02	9.9E-02		
Sb-125	7E-03 +/- 3.7E-02	1.8E-02	6.2E-02		
Se-75	3E-03 +/- 1.8E-02	8.9E-03	3.0E-02		
Zn-65	4.9E-02 +/- 9.0E-02	4.5E-02	1.5E-01		
Zr-95	7.6E-02 +/- 7.1E-02	3.6E-02	1.2E-01		

Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

Prepared by: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

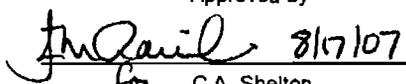
FEDERAL GRP Report Date 08/17/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-16 Client ID H4024 401B1 LA1S1 SSP4 Product GAMMA SPECTROMETRY
 Reference Date 05/09/07 Analysis Date 08/16/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.071E+00 +/- 5.7E-02	6.1E-02	1.0E-01		bc
Ag-108m	-1E-03 +/- 1.1E-02	5.6E-03	1.9E-02		
Ag-110m	-2E-03 +/- 2.5E-02	1.3E-02	4.3E-02		
Ba-140	-3E+00 +/- 3.4E+00	1.7E+00	6.6E+00		
Be-7	-3E-01 +/- 3.4E-01	1.7E-01	6.0E-01		
Ce-141	1.7E-01 +/- 1.6E-01	8.0E-02	2.6E-01		
Ce-144	4E-02 +/- 1.1E-01	5.3E-02	1.8E-01		
Co-57	-3E-02 +/- 1.1E-01	5.5E-02	1.8E-01		
Co-58	-3.7E-02 +/- 3.2E-02	1.6E-02	5.8E-02		
Co-60	1E-02 +/- 1.3E-02	6.3E-03	2.5E-02	2.0E-02	a
Cr-51	5E-01 +/- 1.2E+00	5.9E-01	2.0E+00		
Cs-134	-6E-03 +/- 1.4E-02	6.8E-03	2.3E-02	8.0E-02	
Cs-137	2.8E-02 +/- 1.3E-02	6.8E-03	2.0E-02	3.0E-02	bc
Eu-152	-4.2E-02 +/- 3.8E-02	1.9E-02	6.6E-02	1.0E-01	
Eu-154	4.2E-02 +/- 5.4E-02	2.7E-02	8.9E-02	1.0E-01	
Fe-59	0E+00 +/- 1.4E-01	7.0E-02	2.4E-01		
K-40	2.13E+01 +/- 6.7E-01	1.1E+00	2.4E-01	3.0E-01	bc
La-140	-3.5E+00 +/- 4.0E+00	2.0E+00	7.6E+00		
Mn-54	1.1E-02 +/- 1.7E-02	8.4E-03	2.8E-02	1.0E-01	
Na-22	1.1E-02 +/- 2.0E-02	1.0E-02	3.4E-02	4.0E-02	
Nb-94	3E-03 +/- 1.3E-02	6.7E-03	2.3E-02		
Nb-95	1.6E-01 +/- 1.4E-01	6.9E-02	2.2E-01		
Ru-103	2.6E-02 +/- 6.3E-02	3.1E-02	1.0E-01		
Ru-106	2E-02 +/- 1.5E-01	7.3E-02	2.5E-01		
Sb-124	3.5E-02 +/- 6.8E-02	3.4E-02	1.1E-01		
Sb-125	-2.5E-02 +/- 3.7E-02	1.9E-02	6.4E-02		
Se-75	1.1E-02 +/- 2.6E-02	1.3E-02	4.3E-02		
Zn-65	-6.4E-02 +/- 9.9E-02	5.0E-02	1.7E-01		
Zr-95	7E-03 +/- 9.0E-02	4.5E-02	1.5E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

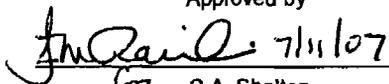
FEDERAL GRF Report Date 07/11/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-17 Client ID H4024 401B1 LA1S1 SSP5 Product GAMMA SPECTROMETRY
Reference Date 05/09/07 Analysis Date 07/05/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma (pCi/g)				
AcTh-228	8.13E-01	+/- 5.5E-02	4.9E-02	1.0E-01		bc
Ag-108m	0E+00	+/- 1.0E-02	5.0E-03	1.7E-02		
Ag-110m	1.6E-02	+/- 1.9E-02	9.8E-03	3.2E-02		
Ba-140	2.2E-01	+/- 2.0E-01	1.0E-01	3.1E-01		
Be-7	0E+00	+/- 1.9E-01	9.6E-02	3.3E-01		
Ce-141	1E-02	+/- 6.1E-02	3.0E-02	1.0E-01		
Ce-144	4.2E-02	+/- 7.7E-02	3.9E-02	1.3E-01		
Co-57	-8.7E-02	+/- 7.9E-02	4.0E-02	1.4E-01		
Co-58	-2E-02	+/- 2.3E-02	1.1E-02	4.1E-02		
Co-60	1E-03	+/- 1.3E-02	6.3E-03	2.8E-02	2.0E-02	a
Cr-51	1.4E-01	+/- 3.4E-01	1.7E-01	5.7E-01		
Cs-134	-7E-03	+/- 1.1E-02	5.6E-03	2.0E-02	8.0E-02	
Cs-137	-3E-03	+/- 1.3E-02	6.3E-03	2.2E-02	3.0E-02	
Eu-152	-3.3E-02	+/- 3.1E-02	1.5E-02	5.5E-02	1.0E-01	
Eu-154	-2.1E-02	+/- 5.3E-02	2.7E-02	9.4E-02	1.0E-01	
Fe-59	4E-02	+/- 7.6E-02	3.8E-02	1.3E-01		
K-40	2.131E+01	+/- 7.2E-01	1.1E+00	1.9E-01	3.0E-01	bc
La-140	2.5E-01	+/- 2.3E-01	1.2E-01	3.6E-01		
Mn-54	-4E-03	+/- 1.6E-02	8.0E-03	2.8E-02	1.0E-01	
Na-22	-8E-03	+/- 2.0E-02	9.8E-03	3.5E-02	4.0E-02	
Nb-94	-4E-03	+/- 1.3E-02	6.4E-03	2.2E-02		
Nb-95	-5.2E-02	+/- 6.2E-02	3.1E-02	1.1E-01		
Ru-103	2.1E-02	+/- 2.9E-02	1.4E-02	4.8E-02		
Ru-106	-8E-02	+/- 1.2E-01	5.8E-02	2.1E-01		
Sb-124	2.5E-02	+/- 2.9E-02	1.5E-02	4.7E-02		
Sb-125	-1.6E-02	+/- 3.3E-02	1.6E-02	5.7E-02		
Se-75	-3E-03	+/- 1.9E-02	9.4E-03	3.2E-02		
Zn-65	-4.2E-02	+/- 8.1E-02	4.0E-02	1.4E-01		
Zr-95	-1.03E+01	+/- 4.7E+00	2.4E+00	7.8E+00		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Fluorescing Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

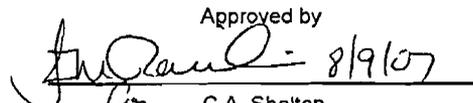
FEDERAL GRP Report Date 08/08/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-18 Client ID H4024 401B1 LA1S1 SSP6 Product GAMMA SPECTROMETRY
Reference Date 05/09/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
	+/-	2 - Sigma				
AcTh-228	1.276E+00	+/- 4.9E-02	6.8E-02	8.4E-02		bc
Ag-108m	-3E-03	+/- 9.6E-03	4.8E-03	1.6E-02		
Ag-110m	8E-03	+/- 1.7E-02	8.6E-03	2.9E-02		
Ba-140	-2E-01	+/- 1.8E+00	8.8E-01	3.0E+00		
Be-7	-2.4E-01	+/- 4.2E-01	2.1E-01	7.2E-01		
Ce-141	6E-02	+/- 1.3E-01	6.5E-02	2.1E-01		
Ce-144	9E-02	+/- 1.1E-01	5.3E-02	1.7E-01		
Co-57	-3E-02	+/- 1.1E-01	5.5E-02	1.8E-01		
Co-58	-2.5E-02	+/- 4.1E-02	2.0E-02	6.9E-02		
Co-60	-3.9E-03	+/- 8.8E-03	4.4E-03	2.0E-02	2.0E-02	a
Cr-51	-3.1E-01	+/- 8.8E-01	4.4E-01	1.5E+00		
Cs-134	-1.3E-02	+/- 4.5E-02	2.3E-02	7.5E-02	8.0E-02	
Cs-137	3.8E-02	+/- 1.5E-02	7.7E-03	2.3E-02	3.0E-02	bc
Eu-152	-2.2E-02	+/- 3.5E-02	1.8E-02	6.0E-02	1.0E-01	
Eu-154	-8E-03	+/- 3.7E-02	1.8E-02	6.3E-02	1.0E-01	
Fe-59	-5.7E-02	+/- 9.2E-02	4.6E-02	1.6E-01		
K-40	2.021E+01	+/- 5.0E-01	1.0E+00	1.8E-01	3.0E-01	bc
La-140	-2E-01	+/- 2.0E+00	1.0E+00	3.5E+00		
Mn-54	1.6E-02	+/- 1.4E-02	7.0E-03	2.3E-02	1.0E-01	
Na-22	-1E-03	+/- 1.4E-02	6.8E-03	2.3E-02	4.0E-02	
Nb-94	6E-03	+/- 1.1E-02	5.3E-03	1.8E-02		
Nb-95	-1.1E-02	+/- 8.7E-02	4.4E-02	1.5E-01		
Ru-103	-6E-03	+/- 4.4E-02	2.2E-02	7.5E-02		
Ru-106	1E-02	+/- 1.1E-01	5.7E-02	1.9E-01		
Sb-124	-1.7E-02	+/- 4.0E-02	2.0E-02	7.4E-02		
Sb-125	3.9E-02	+/- 3.2E-02	1.6E-02	5.2E-02		
Se-75	-1.7E-02	+/- 2.4E-02	1.2E-02	4.0E-02		
Zn-65	-7.5E-02	+/- 7.0E-02	3.5E-02	1.2E-01		
Zr-95	1.9E-01	+/- 2.4E-01	1.2E-01	3.9E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

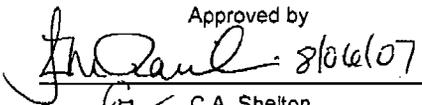
FEDERAL GRF Report Date 08/06/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-19 Client ID H4024 401B1 LA1S1 QA1 Product GAMMA SPECTROMETRY
 Reference Date 05/10/07 Analysis Date 08/06/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.098E+00 +/- 4.2E-02	5.9E-02	7.3E-02		bc
Ag-108m	2.4E-03 +/- 8.1E-03	4.0E-03	1.3E-02		
Ag-110m	8E-03 +/- 1.5E-02	7.7E-03	2.6E-02		
Ba-140	3E-01 +/- 1.2E+00	5.8E-01	1.9E+00		
Be-7	8E-02 +/- 2.2E-01	1.1E-01	3.6E-01		
Ce-141	-8.5E-02 +/- 9.9E-02	5.0E-02	1.7E-01		
Ce-144	-1.2E-02 +/- 8.3E-02	4.2E-02	1.4E-01		
Co-57	1.9E-02 +/- 8.6E-02	4.3E-02	1.4E-01		
Co-58	2.9E-02 +/- 3.6E-02	1.8E-02	6.0E-02		
Co-60	-9.2E-03 +/- 8.2E-03	4.1E-03	2.0E-02	2.0E-02	
Cr-51	-3.2E-01 +/- 9.4E-01	4.7E-01	1.6E+00		
Cs-134	-1E-02 +/- 4.1E-02	2.0E-02	6.7E-02	8.0E-02	
Cs-137	3.6E-02 +/- 1.0E-02	5.3E-03	1.5E-02	3.0E-02	bc
Eu-152	1E-02 +/- 2.8E-02	1.4E-02	4.6E-02	1.0E-01	
Eu-154	-1E-03 +/- 3.0E-02	1.5E-02	5.1E-02	1.0E-01	
Fe-59	-3.2E-02 +/- 8.2E-02	4.1E-02	1.4E-01		
K-40	2.009E+01 +/- 4.7E-01	1.0E+00	1.7E-01	3.0E-01	bc
La-140	3E-01 +/- 1.3E+00	6.6E-01	2.2E+00		
Mn-54	-1.24E-02 +/- 8.4E-03	4.3E-03	1.6E-02	1.0E-01	
Na-22	-1.7E-02 +/- 2.2E-02	1.1E-02	3.8E-02	4.0E-02	
Nb-94	3.1E-03 +/- 8.4E-03	4.2E-03	1.4E-02		
Nb-95	-1.4E-02 +/- 7.6E-02	3.8E-02	1.3E-01		
Ru-103	5E-03 +/- 4.3E-02	2.1E-02	7.2E-02		
Ru-106	-2E-02 +/- 1.0E-01	5.0E-02	1.7E-01		
Sb-124	-9E-03 +/- 3.6E-02	1.8E-02	6.5E-02		
Sb-125	8E-03 +/- 2.6E-02	1.3E-02	4.3E-02		
Se-75	-3.3E-02 +/- 2.2E-02	1.1E-02	3.8E-02		
Zn-65	-2.4E-02 +/- 6.4E-02	3.2E-02	1.1E-01		
Zr-95	5.6E-02 +/- 4.5E-02	2.3E-02	7.3E-02		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

c: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

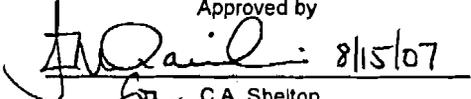
FEDERAL GRP Report Date 08/15/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-21 Client ID H4024 401B1 LA1S1 DUPLICATE Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 08/09/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.343E+00 +/- 6.6E-02	7.5E-02	1.1E-01		bc
Ag-108m	-3E-03 +/- 1.4E-02	6.9E-03	2.4E-02		
Ag-110m	-1.2E-02 +/- 2.3E-02	1.2E-02	4.1E-02		
Ba-140	-1.8E+00 +/- 2.6E+00	1.3E+00	4.8E+00		
Be-7	4.8E-01 +/- 4.1E-01	2.1E-01	6.7E-01		
Ce-141	7E-02 +/- 1.9E-01	9.5E-02	3.2E-01		
Ce-144	-2.3E-01 +/- 2.8E-01	1.4E-01	4.6E-01		
Co-57	-1E-02 +/- 1.5E-01	7.4E-02	2.5E-01		
Co-58	-7E-03 +/- 3.5E-02	1.8E-02	6.1E-02		
Co-60	4E-03 +/- 1.2E-02	5.9E-03	2.7E-02	2.0E-02	a
Cr-51	-7E-01 +/- 1.4E+00	6.9E-01	2.3E+00		
Cs-134	-2E-03 +/- 1.4E-02	7.1E-03	2.4E-02	8.0E-02	
Cs-137	1.3E-02 +/- 1.8E-02	8.9E-03	2.9E-02	3.0E-02	
Eu-152	-1.5E-02 +/- 5.1E-02	2.5E-02	8.6E-02	1.0E-01	
Eu-154	8E-03 +/- 4.9E-02	2.5E-02	8.4E-02	1.0E-01	
Fe-59	-2E-02 +/- 1.3E-01	6.4E-02	2.2E-01		
K-40	2.298E+01 +/- 6.6E-01	1.2E+00	2.4E-01	3.0E-01	bc
La-140	-2.1E+00 +/- 3.0E+00	1.5E+00	5.5E+00		
Mn-54	-1E-03 +/- 1.9E-02	9.6E-03	3.3E-02	1.0E-01	
Na-22	0E+00 +/- 1.9E-02	9.4E-03	3.2E-02	4.0E-02	
Nb-94	2E-03 +/- 1.5E-02	7.3E-03	2.5E-02		
Nb-95	-2E-02 +/- 1.2E-01	5.8E-02	2.0E-01		
Ru-103	-2.2E-02 +/- 7.0E-02	3.5E-02	1.2E-01		
Ru-106	5E-02 +/- 1.6E-01	8.2E-02	2.8E-01		
Sb-124	-4.5E-02 +/- 6.4E-02	3.2E-02	1.2E-01		
Sb-125	-5E-03 +/- 4.7E-02	2.4E-02	8.0E-02		
Se-75	-4E-02 +/- 3.4E-02	1.7E-02	5.9E-02		
Zn-65	-2E-02 +/- 9.6E-02	4.8E-02	1.6E-01		
Zr-95	1.2E-02 +/- 8.8E-02	4.4E-02	1.5E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

cc: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

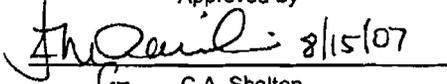
FEDERAL GRP Report Date 08/15/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-22 Client ID CONTROL SPIKE CS Product GAMMA SPECTROMETRY
 Reference Date 06/19/07 Analysis Date 08/13/07 Matrix Control Spike

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags
AcTh-228	-4E+00 +/- 2.0E+01	9.8E+00	3.9E+01		
Ag-108m	3E-01 +/- 5.7E+00	2.9E+00	1.0E+01		
Ag-110m	-2.2E+00 +/- 6.5E+00	3.2E+00	1.4E+01		
Ba-140	0E+00 +/- 9.0E+01	4.5E+01	1.9E+02	1.5E+01	a
Be-7	-5E+01 +/- 1.0E+02	5.1E+01	1.9E+02		
Ce-141	-2E+00 +/- 2.0E+01	1.0E+01	3.6E+01		
Ce-144	4E+00 +/- 2.8E+01	1.4E+01	4.9E+01		
Co-57	2.28E+02 +/- 1.3E+01	1.3E+01	9.9E+00		bc
Co-58	1.4E+00 +/- 7.7E+00	3.8E+00	1.4E+01	1.5E+01	
Co-60	-4E-01 +/- 4.6E+00	2.3E+00	9.7E+00	1.5E+01	
Cr-51	6E+01 +/- 1.5E+02	7.5E+01	2.6E+02		
Cs-134	6.2E+00 +/- 6.1E+00	3.1E+00	9.5E+00	1.5E+01	
Cs-137	2.48E+02 +/- 2.3E+01	1.7E+01	1.5E+01	1.8E+01	bc
Fe-59	3E+00 +/- 2.4E+01	1.2E+01	4.5E+01	3.0E+01	a
I-131	-7E+01 +/- 5.3E+02	2.7E+02	9.8E+02	1.5E+01	a
K-40	-6.8E+01 +/- 6.3E+01	3.1E+01	1.5E+02		
La-140	0E+00 +/- 1.0E+02	5.2E+01	2.2E+02		
Mn-54	8.8E+00 +/- 6.1E+00	3.1E+00	8.5E+00	1.5E+01	
Nb-95	4E+00 +/- 1.4E+01	7.2E+00	2.6E+01	1.5E+01	a
Ru-103	5E+00 +/- 1.3E+01	6.7E+00	2.3E+01		
Ru-106	1.3E+01 +/- 5.1E+01	2.6E+01	9.2E+01		
Sb-124	1.8E+01 +/- 2.1E+01	1.1E+01	3.3E+01		
Sb-125	-3E+00 +/- 1.6E+01	8.0E+00	2.9E+01		
Se-75	0E+00 +/- 7.4E+00	3.7E+00	1.3E+01		
Zn-65	-6E+00 +/- 1.2E+01	6.2E+00	2.6E+01	3.0E+01	
Zr-95	9E+00 +/- 1.4E+01	7.1E+00	2.4E+01	1.5E+01	a

Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio: 05.0
 This is a spiked QC sample. Required MDCs do not apply.

CC: Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
 Attention John McGehee

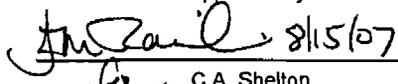
FEDERAL GRP Report Date 08/15/07
 Receipt Date 06/19/07

AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12561-23 Client ID 53859-162 MATRIX SPIKE Product GAMMA SPECTROMETRY
 Reference Date 05/08/07 Analysis Date 08/14/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	7.11E-01 +/- 7.5E-02	5.2E-02	1.6E-01		bc
Ag-108m	1.4E-02 +/- 2.8E-02	1.4E-02	4.7E-02		
Ag-110m	2.6E-02 +/- 4.6E-02	2.3E-02	7.7E-02		
Ba-140	2.1E+00 +/- 2.0E+00	9.9E-01	3.2E+00		
Be-7	2.9E-01 +/- 9.0E-01	4.5E-01	1.5E+00		
Ce-141	9E-02 +/- 2.6E-01	1.3E-01	4.4E-01		
Ce-144	1.2E-01 +/- 1.9E-01	9.4E-02	3.1E-01		
Co-57	-9E-02 +/- 1.9E-01	9.6E-02	3.2E-01		
Co-58	1.4E-02 +/- 5.9E-02	3.0E-02	9.8E-02		
Co-60	1.102E+01 +/- 7.6E-02	5.5E-01	2.7E-02	2.0E-02	abc
Cr-51	-1.8E+00 +/- 2.5E+00	1.3E+00	4.2E+00		
Cs-134	-6.1E-02 +/- 5.9E-02	3.0E-02	9.9E-02	8.0E-02	a
Cs-137	2.282E+01 +/- 1.3E-01	1.1E+00	5.0E-02	3.0E-02	abc
Eu-152	3.6E-02 +/- 8.2E-02	4.1E-02	1.3E-01	1.0E-01	a
Eu-154	-4.6E-02 +/- 4.2E-02	2.1E-02	7.4E-02	1.0E-01	
Fe-59	0E+00 +/- 2.4E-01	1.2E-01	4.1E-01		
K-40	5.1E-01 +/- 1.4E-01	7.5E-02	2.1E-01	3.0E-01	bc
La-140	2.4E+00 +/- 2.3E+00	1.1E+00	3.7E+00		
Mn-54	-1.2E-02 +/- 3.0E-02	1.5E-02	5.0E-02	1.0E-01	
Na-22	-1.8E-02 +/- 1.6E-02	7.9E-03	2.8E-02	4.0E-02	
Nb-94	-2E-03 +/- 2.0E-02	9.8E-03	3.3E-02		
Nb-95	4E-02 +/- 1.5E-01	7.4E-02	2.5E-01		
Ru-103	-1.4E-01 +/- 1.4E-01	6.9E-02	2.3E-01		
Ru-106	1.5E-01 +/- 2.6E-01	1.3E-01	4.4E-01		
Sb-124	4.7E-02 +/- 6.1E-02	3.0E-02	1.0E-01		
Sb-125	2.3E-02 +/- 9.2E-02	4.6E-02	1.5E-01		
Se-75	-2.9E-02 +/- 5.4E-02	2.7E-02	9.1E-02		
Zn-65	8E-02 +/- 1.4E-01	7.0E-02	2.3E-01		
Zr-95	-3E-02 +/- 1.1E-01	5.4E-02	1.8E-01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:
 This is a spiked QC sample. Required MDCs do not apply.

cc: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

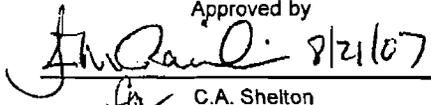
FEDERAL GRP Report Date 08/21/07
Receipt Date 06/19/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12561-24 Client ID BLANK Product GAMMA SPECTROMETRY
Reference Date 06/19/07 Analysis Date 08/13/07 Matrix A Blank

Nuclide	Activity Concentration		TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags
	+/-	2 - Sigma				
AcTh-228	-9E+00	+/- 1.7E+01	8.3E+00	3.3E+01		
Ag-108m	-1.8E+00	+/- 3.7E+00	1.9E+00	7.0E+00		
Ag-110m	-2.7E+00	+/- 5.6E+00	2.8E+00	1.1E+01		
Ba-140	3.9E+01	+/- 9.6E+01	4.8E+01	1.7E+02		
Be-7	-6.5E+01	+/- 6.3E+01	3.1E+01	1.3E+02		
Ce-141	1.6E+01	+/- 1.8E+01	8.9E+00	2.9E+01		
Ce-144	1.6E+01	+/- 2.4E+01	1.2E+01	4.0E+01		
Co-57	-3.9E+00	+/- 3.4E+00	1.7E+00	6.4E+00		
Co-58	-4.9E+00	+/- 6.2E+00	3.1E+00	1.3E+01		
Co-60	-5E-01	+/- 4.5E+00	2.2E+00	8.8E+00		
Cr-51	0E+00	+/- 1.2E+02	5.8E+01	2.1E+02		
Cs-134	4E-01	+/- 4.4E+00	2.2E+00	8.1E+00		
Cs-137	1.6E+00	+/- 4.5E+00	2.3E+00	7.9E+00		
Fe-59	-7E+00	+/- 1.5E+01	7.8E+00	3.2E+01		
I-131	-5E+01	+/- 5.0E+02	2.5E+02	9.0E+02		
K-40	-3.1E+01	+/- 5.1E+01	2.6E+01	1.1E+02		
La-140	5E+01	+/- 1.1E+02	5.5E+01	2.0E+02		
Mn-54	7E-01	+/- 4.4E+00	2.2E+00	7.9E+00		
Nb-95	1E+00	+/- 1.1E+01	5.7E+00	2.1E+01		
Ru-103	0E+00	+/- 1.0E+01	5.1E+00	1.8E+01		
Ru-106	9E+00	+/- 4.2E+01	2.1E+01	7.5E+01		
Sb-124	2.1E+01	+/- 1.7E+01	8.7E+00	2.4E+01		
Sb-125	-9E+00	+/- 1.2E+01	6.0E+00	2.3E+01		
Se-75	3.5E+00	+/- 6.2E+00	3.1E+00	1.0E+01		
Zn-65	-4E+00	+/- 1.1E+01	5.4E+00	2.1E+01		
Zr-95	-6E+00	+/- 1.2E+01	5.9E+00	2.4E+01		

- Flags: a The measured MDC is greater than the required MDC
 b The activity concentration is greater than three times its one sigma counting uncertainty.
 c Peak was found

Approved by

 C.A. Shelton
 Sample Control & Measurements Lead

Reporting Level Ratio:

cc: Don McGee

SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA

5/3/2007

Page C-8 of 8

Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 Package: Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Section 7.0
Sample Analysis Results – Alpha Spectroscopy
48 Pages

U-234,

U-235,

U-238



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 08/15/07

Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/30/2007	U-234	7.9E-01	+/- 1.2E-01	7.5E-02	1.3E-02	1.0E-01	b	
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/30/2007	U-235	5.8E-02	+/- 3.7E-02	1.9E-02	2.1E-02	1.0E-01	b	
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/30/2007	U-238	7.3E-01	+/- 1.2E-01	7.2E-02	1.7E-02	1.0E-01	b	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/30/2007	U-234	6.9E-01	+/- 1.3E-01	7.4E-02	2.4E-02	1.0E-01	b	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/30/2007	U-235	2.9E-02	+/- 3.0E-02	1.5E-02	2.9E-02	1.0E-01		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/30/2007	U-238	6.1E-01	+/- 1.2E-01	6.9E-02	2.8E-02	1.0E-01	b	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/30/2007	U-234	5.3E-01	+/- 1.1E-01	6.1E-02	2.9E-02	1.0E-01	b	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/30/2007	U-235	2.6E-02	+/- 2.6E-02	1.3E-02	2.4E-02	1.0E-01		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/30/2007	U-238	4.6E-01	+/- 1.0E-01	5.6E-02	2.4E-02	1.0E-01	b	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/30/2007	U-234	6E-01	+/- 1.4E-01	7.9E-02	4.1E-02	1.0E-01	b	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/30/2007	U-235	3E-02	+/- 3.5E-02	1.8E-02	3.6E-02	1.0E-01		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/30/2007	U-238	6.6E-01	+/- 1.5E-01	8.3E-02	3.2E-02	1.0E-01	b	

Flags:

- a The measured MDC is greater than the required MDC.
- b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by

C.A. Shelton 8/16/07
for C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



Environmental Laboratory Analysis Report

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508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/30/2007	U-234	6.5E-01	+/- 1.1E-01	6.7E-02	2.9E-02	1.0E-01	b	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/30/2007	U-235	6.3E-02	+/- 4.0E-02	2.0E-02	2.9E-02	1.0E-01	b	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/30/2007	U-238	6.7E-01	+/- 1.1E-01	6.8E-02	2.3E-02	1.0E-01	b	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/30/2007	U-234	6.4E-01	+/- 1.3E-01	7.4E-02	2.7E-02	1.0E-01	b	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/30/2007	U-235	2.3E-02	+/- 2.7E-02	1.4E-02	2.8E-02	1.0E-01		
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/30/2007	U-238	4.9E-01	+/- 1.1E-01	6.3E-02	2.7E-02	1.0E-01	b	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/30/2007	U-234	6.9E-01	+/- 1.0E-01	6.2E-02	2.1E-02	1.0E-01	b	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/30/2007	U-235	7.6E-02	+/- 3.7E-02	1.9E-02	1.9E-02	1.0E-01	b	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/30/2007	U-238	6.68E-01	+/- 9.9E-02	6.1E-02	1.0E-02	1.0E-01	b	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/30/2007	U-234	6.8E-01	+/- 1.2E-01	7.2E-02	3.3E-02	1.0E-01	b	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/30/2007	U-235	6E-03	+/- 1.4E-02	6.8E-03	2.7E-02	1.0E-01		
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/30/2007	U-238	6.2E-01	+/- 1.2E-01	6.8E-02	2.8E-02	1.0E-01	b	

Flags:
 a The measured MDC is greater than the required MDC.
 b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by

J. Shelton 8/16/07
 for C.A. Shelton
 Sample Control & Measurements Lead

c: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/30/2007	U-234	4.5E-01	+/- 1.0E-01	5.8E-02	2.2E-02	1.0E-01	b	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/30/2007	U-235	5.2E-02	+/- 4.0E-02	2.0E-02	3.0E-02	1.0E-01		
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/30/2007	U-238	4.8E-01	+/- 1.1E-01	6.0E-02	2.2E-02	1.0E-01	b	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/30/2007	U-234	6.9E-01	+/- 1.3E-01	7.4E-02	2.2E-02	1.0E-01	b	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/30/2007	U-235	6.2E-02	+/- 4.2E-02	2.1E-02	2.7E-02	1.0E-01		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/30/2007	U-238	6E-01	+/- 1.2E-01	6.8E-02	1.5E-02	1.0E-01	b	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	07/30/2007	U-234	8.1E-01	+/- 1.4E-01	8.2E-02	2.5E-02	1.0E-01	b	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	07/30/2007	U-235	3.4E-02	+/- 3.3E-02	1.7E-02	3.6E-02	1.0E-01		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	07/30/2007	U-238	7.5E-01	+/- 1.3E-01	7.8E-02	3.6E-02	1.0E-01	b	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/30/2007	U-234	5.3E-01	+/- 1.0E-01	5.9E-02	2.2E-02	1.0E-01	b	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/30/2007	U-235	4.3E-02	+/- 3.3E-02	1.7E-02	2.5E-02	1.0E-01		
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/30/2007	U-238	4.5E-01	+/- 9.6E-02	5.4E-02	1.8E-02	1.0E-01	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by

C.A. Shelton 8/16/07
for C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/31/2007	U-234	5.6E-01	+/- 1.1E-01	6.2E-02	2.5E-02	1.0E-01	b	
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/31/2007	U-235	1.1E-02	+/- 1.8E-02	9.0E-03	2.7E-02	1.0E-01		
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/31/2007	U-238	6.5E-01	+/- 1.2E-01	6.8E-02	2.5E-02	1.0E-01	b	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/30/2007	U-234	5.6E-01	+/- 1.1E-01	6.4E-02	2.2E-02	1.0E-01	b	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/30/2007	U-235	5.4E-02	+/- 3.8E-02	1.9E-02	1.8E-02	1.0E-01		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/30/2007	U-238	5E-01	+/- 1.1E-01	6.0E-02	1.5E-02	1.0E-01	b	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/30/2007	U-234	6.1E-01	+/- 1.2E-01	6.9E-02	3.0E-02	1.0E-01	b	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/30/2007	U-235	6.5E-02	+/- 4.4E-02	2.2E-02	2.9E-02	1.0E-01		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/30/2007	U-238	5.3E-01	+/- 1.1E-01	6.3E-02	2.3E-02	1.0E-01	b	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/30/2007	U-234	5.26E-01	+/- 9.0E-02	5.3E-02	2.1E-02	1.0E-01	b	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/30/2007	U-235	2.2E-02	+/- 2.1E-02	1.1E-02	2.0E-02	1.0E-01		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/30/2007	U-238	5.55E-01	+/- 9.2E-02	5.4E-02	1.7E-02	1.0E-01	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by

C.A. Shelton
C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

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AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
		Date	Date		+/- 2-Sigma (pCi/g)					
Soil										
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	07/30/2007	U-234	3.9E-01 +/- 1.0E-01	5.4E-02	3.0E-02	1.0E-01	b	
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	07/30/2007	U-235	2.4E-02 +/- 2.7E-02	1.4E-02	2.1E-02	1.0E-01		
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	07/30/2007	U-238	4.1E-01 +/- 1.0E-01	5.6E-02	2.7E-02	1.0E-01	b	
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	07/31/2007	U-234	7.2E-01 +/- 1.3E-01	7.5E-02	2.1E-02	1.0E-01	b	
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	07/31/2007	U-235	6.1E-02 +/- 4.1E-02	2.1E-02	2.8E-02	1.0E-01		
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	07/31/2007	U-238	6.3E-01 +/- 1.2E-01	6.9E-02	1.5E-02	1.0E-01	b	
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	07/30/2007	U-234	6E-01 +/- 1.3E-01	7.3E-02	3.4E-02	1.0E-01	b	
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	07/30/2007	U-235	3.1E-02 +/- 3.5E-02	1.7E-02	4.2E-02	1.0E-01		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	07/30/2007	U-238	6E-01 +/- 1.3E-01	7.3E-02	4.1E-02	1.0E-01	b	
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	07/30/2007	U-234	1.54E+00 +/- 1.1E-01	8.9E-02	1.2E-02	1.0E-01	b	
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	07/30/2007	U-235	5.8E-02 +/- 2.5E-02	1.3E-02	1.6E-02	1.0E-01	b	
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	07/30/2007	U-238	1.64E+00 +/- 1.2E-01	9.4E-02	1.1E-02	1.0E-01	b	

Flags:
a The measured MDC is greater than the required MDC.
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Approved by

C.A. Shelton 8/16/07

C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



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400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

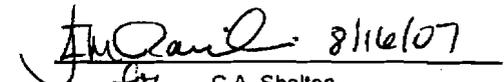
Product U-234, U-235, U-238

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU	Measured	Required	Reporting	
		Date	Date		+/- 2-Sigma (pCi/g)	1 Sigma (pCi/g)	MDC (pCi/g)	MDC (pCi/g)		Flags Level Ratio
Soil										
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	07/30/2007	U-234	8E-01 +/- 1.3E-01	8.0E-02	2.7E-02	1.0E-01	b	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	07/30/2007	U-235	4E-02 +/- 3.4E-02	1.7E-02	2.7E-02	1.0E-01		
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	07/30/2007	U-238	8.2E-01 +/- 1.4E-01	8.1E-02	2.5E-02	1.0E-01	b	

- Flags:**
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 - b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by

for C.A. Shelton
Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Reporting Flags Level Ratio
		Date	Date		+/-	2-Sigma				
A Blank										
L12561-24	BLANK	06/19/2007	07/30/2007	U-234	1.2E+01	+/- 1.7E+01	8.7E+00	2.2E+01	1.0E+00	a
L12561-24	BLANK	06/19/2007	07/30/2007	U-235	1.4E+01	+/- 2.1E+01	1.1E+01	3.0E+01	1.0E+00	a
L12561-24	BLANK	06/19/2007	07/30/2007	U-238	-1.6E+00	+/- 1.6E+00	8.2E-01	2.7E+01	1.0E+00	a
Control Spike										
L12561-22	CONTROL SPIKE CS	06/19/2007	07/30/2007	U-234	8.73E+02	+/- 9.0E+01	5.8E+01	1.0E+01	1.0E+00	ab
L12561-22	CONTROL SPIKE CS	06/19/2007	07/30/2007	U-235	1.11E+02	+/- 3.6E+01	1.9E+01	1.4E+01	1.0E+00	ab
L12561-22	CONTROL SPIKE CS	06/19/2007	07/30/2007	U-238	9.61E+02	+/- 9.5E+01	6.3E+01	1.3E+01	1.0E+00	ab

Flags: a The measured MDC is greater than the required MDC.
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Approved by

C.A. Shelton 8/16/07
C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee

Sr-89,90



Environmental Laboratory Analysis Report

29 Research Drive
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508-573-6650

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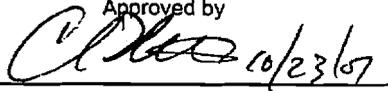
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product SR-89, SR-90**Report Date** 10/23/07**Receipt Date** 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
		Date	Date		+/-	2-Sigma				
Soil										
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	10/19/2007	Sr-90	3.5E-02	+/- 5.8E-02	2.9E-02	9.6E-02	1.2E-01	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	10/19/2007	Sr-90	4.2E-02	+/- 5.0E-02	2.5E-02	8.2E-02	1.2E-01	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	10/19/2007	Sr-90	3E-02	+/- 6.0E-02	3.0E-02	1.0E-01	1.2E-01	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	10/19/2007	Sr-90	-4.7E-02	+/- 5.4E-02	2.7E-02	9.3E-02	1.2E-01	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	10/20/2007	Sr-90	0E+00	+/- 5.8E-02	2.9E-02	9.7E-02	1.2E-01	

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c: Don McGee

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C.A. Shelton
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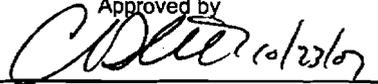
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product SR-89, SR-90**Report Date** 10/23/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	10/20/2007	Sr-90	0E+00	+/- 5.3E-02	2.6E-02	8.8E-02	1.2E-01	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	10/19/2007	Sr-90	0E+00	+/- 6.0E-02	3.0E-02	1.0E-01	1.2E-01	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	10/19/2007	Sr-90	-2.2E-02	+/- 5.0E-02	2.5E-02	8.5E-02	1.2E-01	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	10/19/2007	Sr-90	2E-02	+/- 5.6E-02	2.8E-02	9.2E-02	1.2E-01	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	10/19/2007	Sr-90	4.2E-02	+/- 5.8E-02	2.9E-02	9.5E-02	1.2E-01	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	10/19/2007	Sr-90	8E-03	+/- 5.6E-02	2.8E-02	9.4E-02	1.2E-01	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	10/19/2007	Sr-90	7E-03	+/- 6.0E-02	3.0E-02	1.0E-01	1.2E-01	

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Product SR-89, SR-90

Report Date 11/02/07

Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
		Date	Date		+/- 2-Sigma (pCi/g)				
Soil									
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	10/22/2007	Sr-90	5E-03 +/- 5.3E-02	2.7E-02	9.0E-02	1.2E-01	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	10/24/2007	Sr-90	2.8E-02 +/- 5.9E-02	3.0E-02	9.8E-02	1.2E-01	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	10/24/2007	Sr-90	4.2E-02 +/- 5.5E-02	2.8E-02	9.1E-02	1.2E-01	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	10/24/2007	Sr-90	-2.4E-02 +/- 5.0E-02	2.5E-02	8.6E-02	1.2E-01	
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	10/24/2007	Sr-90	0E+00 +/- 6.3E-02	3.2E-02	1.1E-01	1.2E-01	

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Product SR-89, SR-90

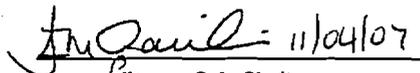
Report Date 11/02/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
		Date	Date		+/- 2-Sigma (pCi/g)					
Soil										
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	10/22/2007	Sr-90	-5E-03 +/- 5.2E-02	2.6E-02	8.7E-02	1.2E-01		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	10/22/2007	Sr-90	-2.7E-02 +/- 5.1E-02	2.5E-02	8.7E-02	1.2E-01		
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	10/22/2007	Sr-90	9.05E-01 +/- 9.3E-02	7.3E-02	8.7E-02	1.2E-01	b	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	10/22/2007	Sr-90	-1.9E-02 +/- 5.8E-02	2.9E-02	9.8E-02	1.2E-01		

Flags: a The measured MDC is greater than the required MDC.
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Product SR-89, SR-90

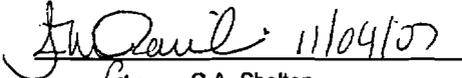
Report Date 11/02/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Reporting Flags	Level Ratio
		Date	Date		+/-	2-Sigma					
A Blank											
L12561-24	BLANK	06/19/2007	10/15/2007	Sr-89	-1.5E+03	+/- 3.9E+03	2.0E+03	8.6E+03			
L12561-24	BLANK	06/19/2007	10/19/2007	Sr-90	-5E+01	+/- 1.6E+02	7.9E+01	2.8E+02			
Control Spike											
L12561-22	CONTROL SPIKE CS	06/19/2007	10/15/2007	Sr-89	-1E+03	+/- 2.5E+03	1.2E+03	4.8E+03	1.0E+01	a	
L12561-22	CONTROL SPIKE CS	06/19/2007	10/22/2007	Sr-90	1.2E+03	+/- 1.0E+02	9.0E+01	5.1E+01	2.0E+00	ab	

Flags:
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Approved by


for C.A. Shelton
Sample Control & Measurements Lead

Th-230, 232



Environmental Laboratory Analysis Report

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Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product TH-230, TH-232

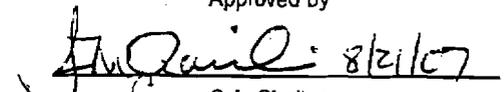
Report Date 08/21/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting	
					+/-	2-Sigma				Flags	Level Ratio
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/31/2007	Th-228	6E-02	+/- 3.6E-01	1.8E-01	6.0E-01	1.0E-01	a	
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/31/2007	Th-230	9.2E-02	+/- 4.8E-02	2.5E-02	5.4E-02	1.0E-01	b	
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/31/2007	Th-232	3E-02	+/- 2.5E-02	1.2E-02	2.5E-02	1.0E-01		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/31/2007	Th-228	2.9E-01	+/- 5.3E-01	2.7E-01	8.8E-01	1.0E-01	a	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/31/2007	Th-230	9.6E-02	+/- 6.6E-02	3.4E-02	8.4E-02	1.0E-01		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/31/2007	Th-232	3.5E-02	+/- 3.4E-02	1.7E-02	3.8E-02	1.0E-01		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/31/2007	Th-228	1.4E-01	+/- 4.3E-01	2.1E-01	7.1E-01	1.0E-01	a	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/31/2007	Th-230	2.8E-02	+/- 4.0E-02	2.0E-02	6.7E-02	1.0E-01		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/31/2007	Th-232	4.6E-02	+/- 3.3E-02	1.7E-02	3.2E-02	1.0E-01		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/31/2007	Th-228	-3E-01	+/- 5.5E-01	2.8E-01	9.3E-01	1.0E-01	a	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/31/2007	Th-230	8.1E-02	+/- 6.4E-02	3.2E-02	9.0E-02	1.0E-01		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/31/2007	Th-232	8.6E-02	+/- 4.9E-02	2.5E-02	2.9E-02	1.0E-01	b	

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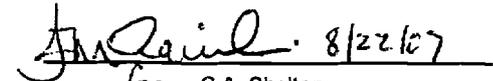
Product TH-230, TH-232

Report Date 08/21/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU ± Sigma	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
		Date	Date		+/- 2-Sigma (pCi/g)					
<u>Soil</u>										
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/31/2007	Th-228	3E-02 +/- 3.9E-01	1.9E-01	6.5E-01	1.0E-01	a	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/31/2007	Th-230	4.8E-02 +/- 4.3E-02	2.1E-02	6.1E-02	1.0E-01		
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/31/2007	Th-232	3E-02 +/- 2.6E-02	1.3E-02	2.4E-02	1.0E-01		
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/31/2007	Th-228	6E-02 +/- 4.4E-01	2.2E-01	7.4E-01	1.0E-01	a	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/31/2007	Th-230	1.11E-01 +/- 5.9E-02	3.0E-02	6.8E-02	1.0E-01	b	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/31/2007	Th-232	6.2E-02 +/- 3.9E-02	2.0E-02	3.3E-02	1.0E-01	b	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/31/2007	Th-228	-1E-02 +/- 3.5E-01	1.7E-01	5.9E-01	1.0E-01	a	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/31/2007	Th-230	8.9E-02 +/- 4.8E-02	2.5E-02	5.7E-02	1.0E-01	b	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/31/2007	Th-232	8E-02 +/- 3.9E-02	2.0E-02	2.3E-02	1.0E-01	b	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/31/2007	Th-228	-2E-01 +/- 4.2E-01	2.1E-01	7.1E-01	1.0E-01	a	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/31/2007	Th-230	9.2E-02 +/- 5.5E-02	2.8E-02	6.8E-02	1.0E-01	b	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/31/2007	Th-232	6.7E-02 +/- 4.0E-02	2.0E-02	3.3E-02	1.0E-01	b	

Flags:
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Attr: John McGehee

Product TH-230, TH-232

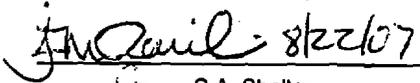
Report Date 08/21/07

Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/31/2007	Th-228	5E-02	+/- 4.5E-01	2.3E-01	7.6E-01	1.0E-01	a	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/31/2007	Th-230	-5E-03	+/- 3.1E-02	1.5E-02	7.1E-02	1.0E-01		
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/31/2007	Th-232	4.7E-02	+/- 3.5E-02	1.8E-02	3.2E-02	1.0E-01		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/31/2007	Th-228	-2.3E-01	+/- 4.1E-01	2.1E-01	7.1E-01	1.0E-01	a	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/31/2007	Th-230	4.1E-02	+/- 4.5E-02	2.3E-02	6.9E-02	1.0E-01		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/31/2007	Th-232	4.8E-02	+/- 3.5E-02	1.8E-02	2.7E-02	1.0E-01		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/01/2007	Th-228	1.5E-01	+/- 4.9E-01	2.4E-01	8.1E-01	1.0E-01	a	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/01/2007	Th-230	1.22E-01	+/- 6.3E-02	3.2E-02	7.2E-02	1.0E-01	b	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/01/2007	Th-232	9E-02	+/- 5.0E-02	2.6E-02	5.0E-02	1.0E-01	b	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/31/2007	Th-228	-2.5E-01	+/- 4.5E-01	2.2E-01	7.6E-01	1.0E-01	a	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/31/2007	Th-230	7E-03	+/- 3.6E-02	1.8E-02	7.1E-02	1.0E-01		
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/31/2007	Th-232	6.2E-02	+/- 3.9E-02	2.0E-02	1.7E-02	1.0E-01	b	

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Product TH-230, TH-232

Report Date 08/21/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/31/2007	Th-228	2.5E-01	+/- 4.3E-01	2.2E-01	7.2E-01	1.0E-01	a	
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/31/2007	Th-230	1.06E-01	+/- 5.9E-02	3.0E-02	6.8E-02	1.0E-01	b	
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/31/2007	Th-232	1.14E-01	+/- 5.1E-02	2.6E-02	2.3E-02	1.0E-01	b	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/31/2007	Th-228	-2.2E-01	+/- 3.8E-01	1.9E-01	6.4E-01	1.0E-01	a	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/31/2007	Th-230	7E-02	+/- 4.8E-02	2.4E-02	6.1E-02	1.0E-01		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/31/2007	Th-232	7.4E-02	+/- 4.0E-02	2.0E-02	2.3E-02	1.0E-01	b	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/31/2007	Th-228	1.1E-01	+/- 4.4E-01	2.2E-01	7.4E-01	1.0E-01	a	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/31/2007	Th-230	6.4E-02	+/- 5.3E-02	2.7E-02	7.5E-02	1.0E-01		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/31/2007	Th-232	9E-02	+/- 4.8E-02	2.5E-02	3.1E-02	1.0E-01	b	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/31/2007	Th-228	2.7E-01	+/- 3.5E-01	1.7E-01	5.7E-01	1.0E-01	a	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/31/2007	Th-230	1.78E-01	+/- 6.0E-02	3.2E-02	5.4E-02	1.0E-01	b	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/31/2007	Th-232	7.5E-02	+/- 3.6E-02	1.9E-02	2.6E-02	1.0E-01	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by
J. Shelton 8/22/07
for C.A. Shelton
Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

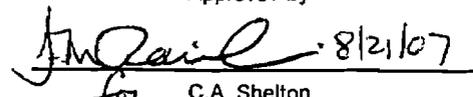
Product TH-230, TH-232

Report Date 08/21/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
		Date	Date		+/-	2-Sigma				
Soil										
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/01/2007	Th-228	-3E-01	+/- 5.0E-01	2.5E-01	8.5E-01	1.0E-01	a
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/01/2007	Th-230	8.2E-02	+/- 6.0E-02	3.0E-02	7.9E-02	1.0E-01	
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/01/2007	Th-232	1E-01	+/- 5.3E-02	2.7E-02	3.4E-02	1.0E-01	b
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/10/2007	Th-228	1.4E-01	+/- 4.5E-01	2.3E-01	7.5E-01	1.0E-01	a
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/10/2007	Th-230	1.34E-01	+/- 6.6E-02	3.4E-02	7.5E-02	1.0E-01	b
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/10/2007	Th-232	7.8E-02	+/- 4.5E-02	2.3E-02	4.4E-02	1.0E-01	b
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/01/2007	Th-228	2.3E-01	+/- 5.5E-01	2.8E-01	9.2E-01	1.0E-01	a
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/01/2007	Th-230	1.53E-01	+/- 8.0E-02	4.1E-02	9.1E-02	1.0E-01	b
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/01/2007	Th-232	1.34E-01	+/- 6.3E-02	3.2E-02	3.6E-02	1.0E-01	b
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/01/2007	Th-228	6.9E-01	+/- 3.4E-01	1.7E-01	5.4E-01	1.0E-01	ab
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/01/2007	Th-230	3.22E+00	+/- 2.0E-01	1.9E-01	4.4E-02	1.0E-01	b
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/01/2007	Th-232	7.9E-01	+/- 1.0E-01	6.4E-02	2.0E-02	1.0E-01	b

Flags:
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c: Don McGee

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead



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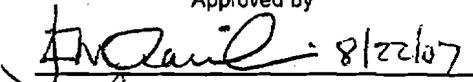
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product TH-230, TH-232**Report Date** 08/21/07**Receipt Date** 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting	
					+/-	2-Sigma				Flags	Level Ratio
Soil											
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/01/2007	Th-228	7E-02	+/- 4.8E-01	2.4E-01	8.1E-01	1.0E-01	a	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/01/2007	Th-230	1.05E-01	+/- 6.3E-02	3.2E-02	7.6E-02	1.0E-01	b	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/01/2007	Th-232	9.6E-02	+/- 5.1E-02	2.6E-02	3.3E-02	1.0E-01	b	

Flags:
a The measured MDC is greater than the required MDC.
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c: Don McGee

Approved by

for C.A. Shelton
Sample Control & Measurements Lead



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Product TH-230, TH-232

Report Date 08/21/07

Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Reporting Flags	Level Ratio
		Date	Date		+/-	2-Sigma					
A Blank											
L12561-24	BLANK	06/19/2007	08/01/2007	Th-228	-2.7E+01	+/- 2.4E+01	1.2E+01	7.6E+01			
L12561-24	BLANK	06/19/2007	08/01/2007	Th-230	1.3E+01	+/- 4.1E+01	2.0E+01	7.7E+01			
L12561-24	BLANK	06/19/2007	08/01/2007	Th-232	-1.6E+00	+/- 1.6E+00	7.8E-01	2.8E+01			
Control Spike											
L12561-22	CONTROL SPIKE CS	06/19/2007	08/01/2007	Th-228	-4E+01	+/- 3.3E+02	1.7E+02	5.5E+02			
L12561-22	CONTROL SPIKE CS	06/19/2007	08/01/2007	Th-230	9.86E+02	+/- 8.3E+01	5.7E+01	3.4E+01		b	
L12561-22	CONTROL SPIKE CS	06/19/2007	08/01/2007	Th-232	1.9E+01	+/- 1.2E+01	5.8E+00	8.3E+00		b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by
John Paul 8/22/07
for C.A. Shelton
Sample Control & Measurements Lead

Pu-238, 239/240



Environmental Laboratory Analysis Report

29 Research Drive
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400 South Tryon Street
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Attn: John McGehee

Product PU-238,PU-239/240

Report Date 08/30/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	08/10/2007	Pu-238	-6E-03	+/- 1.2E-02	6.0E-03	8.5E-02	1.0E-01	
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	08/10/2007	Pu-239/240	2.8E-02	+/- 5.0E-02	2.5E-02	8.5E-02	1.0E-01	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	08/06/2007	Pu-238	8E-03	+/- 1.6E-02	8.0E-03	2.2E-02	1.0E-01	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	08/06/2007	Pu-239/240	6E-03	+/- 1.6E-02	8.1E-03	3.6E-02	1.0E-01	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	08/06/2007	Pu-238	0E+00	+/- 6.0E-04	3.0E-04	5.5E-02	1.0E-01	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	08/06/2007	Pu-239/240	-3E-03	+/- 4.3E-03	2.1E-03	8.1E-02	1.0E-01	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	08/06/2007	Pu-238	1.1E-02	+/- 3.5E-02	1.8E-02	8.4E-02	1.0E-01	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	08/06/2007	Pu-239/240	-3.9E-03	+/- 4.5E-03	2.3E-03	7.5E-02	1.0E-01	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	08/06/2007	Pu-238	-4.7E-04	+/- 9.5E-04	4.7E-04	2.3E-02	1.0E-01	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	08/06/2007	Pu-239/240	-1.4E-03	+/- 1.6E-03	8.2E-04	2.7E-02	1.0E-01	

- Flags:**
- a The measured MDC is greater than the required MDC.
 - b The activity concentration is greater than three times its one sigma counting uncertainty.

Batch QC Performance for these analyses:

c: Don McGee	Matrix Spike	Pu-238	+70.1%
	Matrix Spike Reprocess	Pu-239/240	-41.0%
	LCS	Pu-238	+35.4%
	LCS Reprocess	Pu-239/240	- 2.4%

Approved by
J. Shelton 8/30/07
for C.A. Shelton
Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

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Product PU-238,PU-239/240

Report Date 08/30/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
		Date	Date		+/- 2-Sigma (pCi/g)				
Soil									
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	08/06/2007	Pu-238	0E+00 +/- 2.4E-04	1.2E-04	2.0E-02	1.0E-01	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	08/06/2007	Pu-239/240	1.4E-02 +/- 2.1E-02	1.0E-02	2.7E-02	1.0E-01	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	08/06/2007	Pu-238	-1.6E-03 +/- 2.3E-03	1.1E-03	4.3E-02	1.0E-01	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	08/06/2007	Pu-239/240	1.1E-02 +/- 2.1E-02	1.1E-02	2.9E-02	1.0E-01	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	08/10/2007	Pu-238	0E+00 +/- 3.7E-04	1.9E-04	3.6E-02	1.0E-01	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	08/10/2007	Pu-239/240	7E-03 +/- 2.8E-02	1.4E-02	7.0E-02	1.0E-01	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	08/06/2007	Pu-238	-1.8E-03 +/- 2.5E-03	1.3E-03	4.7E-02	1.0E-01	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	08/06/2007	Pu-239/240	9E-03 +/- 2.4E-02	1.2E-02	5.1E-02	1.0E-01	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	08/07/2007	Pu-238	0E+00 +/- 3.8E-04	1.9E-04	3.3E-02	1.0E-01	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	08/07/2007	Pu-239/240	1.1E-02 +/- 2.4E-02	1.2E-02	4.7E-02	1.0E-01	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Batch QC Performance for these analyses:

c: Don McGee

Matrix, Spike	Pu-238	+70.1%
Matrix Spike Reprocess	Pu-239/240	-41.0%
LCS	Pu-238	+35.4%
LCS Reprocess	Pu-239/240	- 2.4%

Approved by
[Signature] 8/30/07
for C.A. Shelton
Sample Control & Measurements Lead



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Attn: John McGehee

Product PU-238,PU-239/240

Report Date 08/30/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
		Date	Date		+/-	2-Sigma				
Soil										
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/07/2007	Pu-238	-4.4E-03	+/- 4.0E-03	2.0E-03	6.7E-02	1.0E-01	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/07/2007	Pu-239/240	-2.7E-03	+/- 3.1E-03	1.5E-03	6.1E-02	1.0E-01	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	08/07/2007	Pu-238	-9E-04	+/- 1.7E-03	8.6E-04	5.1E-02	1.0E-01	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	08/07/2007	Pu-239/240	1.2E-02	+/- 2.9E-02	1.4E-02	5.9E-02	1.0E-01	
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	08/07/2007	Pu-238	0E+00	+/- 5.7E-04	2.8E-04	5.1E-02	1.0E-01	
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	08/07/2007	Pu-239/240	-1.1E-03	+/- 2.2E-03	1.1E-03	6.6E-02	1.0E-01	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	08/07/2007	Pu-238	7E-03	+/- 1.7E-02	8.4E-03	3.3E-02	1.0E-01	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	08/07/2007	Pu-239/240	2.5E-02	+/- 2.9E-02	1.5E-02	3.0E-02	1.0E-01	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	08/07/2007	Pu-238	-3.4E-03	+/- 3.9E-03	2.0E-03	5.2E-02	1.0E-01	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	08/07/2007	Pu-239/240	2E-02	+/- 3.2E-02	1.6E-02	4.8E-02	1.0E-01	

- Flags:**
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Batch QC Performance for these analyses:

c: Don McGee

Matrix Spike	Pu-238	+70.1%
Matrix Spike Reprocess	Pu-239/240	-41.0%
LCS	Pu-238	+35.4%
LCS Reprocess	Pu-239/240	- 2.4%

Approved by
J. Rail 8/30/07
for C.A. Shelton
Sample Control & Measurements Lead



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LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	08/10/2007	Pu-238	2.6E-02	+/- 3.7E-02	1.8E-02	3.5E-02	1.0E-01	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	08/10/2007	Pu-239/240	6E-03	+/- 2.9E-02	1.4E-02	7.2E-02	1.0E-01	
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/07/2007	Pu-238	-4.3E-03	+/- 8.6E-03	4.3E-03	9.3E-02	1.0E-01	
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/07/2007	Pu-239/240	1.7E-02	+/- 4.4E-02	2.2E-02	9.2E-02	1.0E-01	
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/08/2007	Pu-238	0E+00	+/- 4.1E-04	2.1E-04	9.1E-02	1.0E-01	
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/08/2007	Pu-239/240	9E-03	+/- 3.0E-02	1.5E-02	7.2E-02	1.0E-01	
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/08/2007	Pu-238	0E+00	+/- 3.8E-04	1.9E-04	3.3E-02	1.0E-01	
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/08/2007	Pu-239/240	-2.9E-03	+/- 2.9E-03	1.5E-03	5.3E-02	1.0E-01	

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
[Signature] 8/30/07
for C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee

Batch QC Performance for these analyses:

Matrix Spike	Pu-238	+70.1%
Matrix Spike Reprocess	Pu-239/240	-41.0%
LCS	Pu-238	+35.4%
LCS Reprocess	Pu-239/240	- 2.4%



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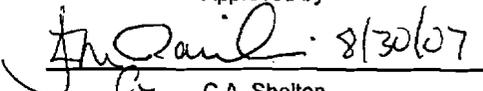
Product PU-238,PU-239/240**Report Date** 08/30/07**Receipt Date** 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/03/2007	Pu-238	1.56E+00	+/- 1.3E-01	6.4E-02	1.8E-02	1.0E-01	b	
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/03/2007	Pu-239/240	7.7E-02	+/- 2.6E-02	1.3E-02	1.2E-02	1.0E-01	b	
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE <i>RP</i>	05/08/2007	08/16/2007	Pu-238	0E+00	+/- 3.5E-05	1.7E-05	2.8E-03	1.0E-01		
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE <i>RP</i>	05/08/2007	08/16/2007	Pu-239/240	2.19E+00	+/- 1.2E-01	6.0E-02	2.8E-03	1.0E-01	b	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/08/2007	Pu-238	0E+00	+/- 3.1E-04	1.6E-04	3.0E-02	1.0E-01		
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/08/2007	Pu-239/240	4.4E-03	+/- 6.2E-03	3.1E-03	5.5E-02	1.0E-01		

- Flags:**
- a The measured MDC is greater than the required MDC.
 - b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by


for C.A. Shelton

Sample Control & Measurements Lead

Batch QC Performance for these analyses:

Matrix Spike	Pu-238	+70.1%
Matrix Spike Reprocess	Pu-239/240	-41.0%
LCS	Pu-238	+35.4%
LCS Reprocess	Pu-239/240	- 2.4%



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product PU-238,PU-239/240

Report Date 08/30/07

Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Reporting Flags	Level Ratio
		Date	Date		+/- 2-Sigma (pCi/L)					
A Blank										
L12561-24	BLANK	06/19/2007	08/03/2007	Pu-238	0E+00 +/- 4.1E-01	2.0E-01	3.1E+01			
L12561-24	BLANK	06/19/2007	08/03/2007	Pu-239/240	1E+01 +/- 2.3E+01	1.1E+01	4.3E+01			
Control Spike										
L12561-22	CONTROL SPIKE CS	06/19/2007	08/03/2007	Pu-238	9.03E+02 +/- 8.8E+01	4.4E+01	5.2E+00		b	
L12561-22	CONTROL SPIKE CS	06/19/2007	08/03/2007	Pu-239/240	1.7E+01 +/- 1.6E+01	7.9E+00	2.3E+01			
L12561-22	CONTROL SPIKE CS RP	06/19/2007	08/16/2007	Pu-238	0E+00 +/- 3.9E-02	1.9E-02	3.4E+00			
L12561-22	CONTROL SPIKE CS RP	06/19/2007	08/16/2007	Pu-239/240	3.66E+03 +/- 1.8E+02	8.8E+01	6.6E+00		b	

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Approved by
[Signature] 8/30/07
for C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee

Batch QC Performance for these analyses:

Matrix Spike	Pu-238	+70.1%
Matrix Spike Reprocess	Pu-239/240	-41.0%
LCS	Pu-238	+35.4%
LCS Reprocess	Pu-239/240	- 2.4%

Pu-241



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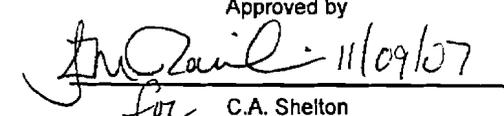
Product PU-241

Report Date 11/09/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	10/25/2007	Pu-241	2E-01	+/- 1.4E+00	7.0E-01	2.3E+00	5.0E+00	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	10/30/2007	Pu-241	-2E+00	+/- 2.9E+00	1.4E+00	4.7E+00	5.0E+00	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	10/31/2007	Pu-241	1.3E+00	+/- 2.3E+00	1.2E+00	3.8E+00	5.0E+00	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	10/27/2007	Pu-241	0E+00	+/- 1.1E+00	5.4E-01	1.8E+00	5.0E+00	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	10/28/2007	Pu-241	-3E-01	+/- 1.2E+00	5.8E-01	1.9E+00	5.0E+00	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	11/01/2007	Pu-241	5E-01	+/- 1.5E+00	7.7E-01	2.5E+00	5.0E+00	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	10/28/2007	Pu-241	0E+00	+/- 1.9E+00	9.6E-01	3.1E+00	5.0E+00	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	10/28/2007	Pu-241	3E-01	+/- 2.3E+00	1.1E+00	3.7E+00	5.0E+00	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	10/28/2007	Pu-241	3E-01	+/- 2.9E+00	1.5E+00	4.8E+00	5.0E+00	

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by

for C.A. Shelton
Sample Control & Measurements Lead



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400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product PU-241

Report Date 11/14/07

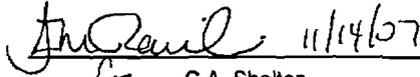
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU	Measured	Required	Reporting Flags Level Ratio
		Date	Date		+/- 2-Sigma (pCi/g)	1 Sigma (pCi/g)	MDC (pCi/g)	MDC (pCi/g)	
Soil									
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	11/12/2007	Pu-241	9E-01 +/- 2.2E+00	1.1E+00	3.5E+00	5.0E+00	
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	11/13/2007	Pu-241	2E-01 +/- 2.0E+00	1.0E+00	3.3E+00	5.0E+00	

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Product PU-241

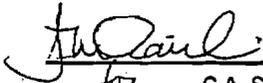
Report Date 11/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	11/08/2007	Pu-241	-7E-01	+/- 1.3E+00	6.7E-01	2.2E+00	5.0E+00	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	11/09/2007	Pu-241	-6E-01	+/- 2.8E+00	1.4E+00	4.5E+00	5.0E+00	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	11/08/2007	Pu-241	-5E-01	+/- 1.5E+00	7.4E-01	2.4E+00	5.0E+00	
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	11/09/2007	Pu-241	-2E-01	+/- 1.4E+00	6.9E-01	2.3E+00	5.0E+00	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	11/09/2007	Pu-241	4E-01	+/- 1.3E+00	6.3E-01	2.1E+00	5.0E+00	

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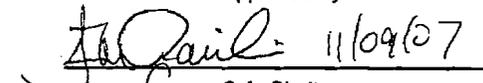
Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product PU-241

Report Date 11/09/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	11/01/2007	Pu-241	-1.8E+00	+/- 1.8E+00	9.1E-01	3.0E+00	5.0E+00	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	10/29/2007	Pu-241	1E-01	+/- 1.9E+00	9.3E-01	3.1E+00	5.0E+00	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	10/31/2007	Pu-241	1E-01	+/- 2.5E+00	1.2E+00	4.1E+00	5.0E+00	
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	11/02/2007	Pu-241	-3E+00	+/- 1.6E+00	8.0E-01	2.6E+00	5.0E+00	

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Approved by

for C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



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AREVA NP Federal D&D Group
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Attn: John McGehee

Product PU-241**Report Date** 11/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
		Date	Date		+/-	2-Sigma				
		05/08/2007	10/04/2007	Pu-241	3.7E+00	+/- 2.9E+00	1.5E+00	4.5E+00	5.0E+00	

Soil

L12561-20 H4024 401B1 LA1S1 MATRIX SPIKE 05/08/2007 10/04/2007 Pu-241 3.7E+00 +/- 2.9E+00 1.5E+00 4.5E+00 5.0E+00

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Approved by


C.A. Shelton
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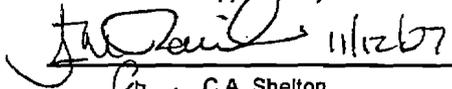
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product PU-241**Report Date** 11/12/07**Receipt Date** 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU	Measured	Required	Reporting
		Date	Date		+/- 2-Sigma (pCi/L)	1 Sigma (pCi/L)	MDC (pCi/L)	MDC (pCi/L)	
A Blank									
L12561-24	BLANK	06/19/2007	10/24/2007	Pu-241	1E+02 +/- 1.8E+03	8.9E+02	2.9E+03		
Control Spike									
L12561-22	CONTROL SPIKE CS	06/19/2007	10/04/2007	Pu-241	5.6E+03 +/- 3.1E+03	1.6E+03	4.6E+03	1.0E+07	b

Flags: a The measured MDC is greater than the required MDC.
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c: Don McGee

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

**Am-241,
Cm-242, 243/244**



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/- 2-Sigma (pCi/g)				
Soil									
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	08/03/2007	Am-241	7E-03 +/- 2.2E-02	1.1E-02	5.0E-02	1.9E+00	
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	08/03/2007	Cm-242	1.4E-02 +/- 2.8E-02	1.4E-02	3.8E-02		
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	08/03/2007	Cm-243/244	1E-02 +/- 2.0E-02	9.8E-03	2.7E-02		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	08/13/2007	Am-241	-6E-03 +/- 1.1E-02	5.6E-03	6.2E-02	1.9E+00	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	08/13/2007	Cm-242	0E+00 +/- 5.5E-04	2.8E-04	4.5E-02		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	08/13/2007	Cm-243/244	-6E-04 +/- 1.1E-03	5.6E-04	3.9E-02		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	08/03/2007	Am-241	-3E-03 +/- 1.3E-02	6.5E-03	6.7E-02	1.9E+00	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	08/03/2007	Cm-242	2E-02 +/- 3.9E-02	2.0E-02	5.3E-02		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	08/03/2007	Cm-243/244	0E+00 +/- 4.5E-04	2.3E-04	3.7E-02		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	08/13/2007	Am-241	1.9E-02 +/- 4.4E-02	2.2E-02	8.6E-02	1.9E+00	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	08/13/2007	Cm-242	0E+00 +/- 6.5E-04	3.2E-04	6.0E-02		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	08/13/2007	Cm-243/244	0E+00 +/- 4.3E-04	2.2E-04	4.0E-02		

- Flags:
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Approved by
C. A. Shelton

C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
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Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	08/03/2007	Am-241	2.2E-02	+/- 4.2E-02	2.1E-02	7.6E-02	1.9E+00		
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	08/03/2007	Cm-242	2E-02	+/- 4.2E-02	2.1E-02	7.2E-02			
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	08/03/2007	Cm-243/244	0E+00	+/- 4.5E-04	2.3E-04	3.9E-02			
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	08/03/2007	Am-241	-3E-03	+/- 1.0E-02	5.0E-03	5.1E-02	1.9E+00		
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	08/03/2007	Cm-242	2.9E-02	+/- 4.0E-02	2.0E-02	3.9E-02			
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	08/03/2007	Cm-243/244	0E+00	+/- 3.4E-04	1.7E-04	2.7E-02			
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	08/03/2007	Am-241	-2.1E-03	+/- 9.0E-03	4.5E-03	4.7E-02	1.9E+00		
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	08/03/2007	Cm-242	1.3E-02	+/- 2.8E-02	1.4E-02	4.9E-02			
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	08/03/2007	Cm-243/244	0E+00	+/- 3.2E-04	1.6E-04	2.6E-02			
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	08/03/2007	Am-241	-3E-03	+/- 1.0E-02	5.1E-03	5.5E-02	1.9E+00		
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	08/03/2007	Cm-242	1.6E-02	+/- 3.1E-02	1.6E-02	4.2E-02			
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	08/03/2007	Cm-243/244	-5E-04	+/- 1.1E-03	5.3E-04	3.7E-02			

Flags: a The measured MDC is greater than the required MDC.
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Approved by

C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



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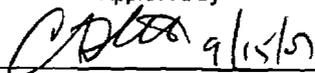
Customer
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Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	08/03/2007	Am-241	-5E-03	+/- 1.2E-02	5.9E-03	6.6E-02	1.9E+00	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	08/03/2007	Cm-242	0E+00	+/- 6.0E-04	3.0E-04	5.0E-02		
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	08/03/2007	Cm-243/244	-6E-04	+/- 1.3E-03	6.3E-04	4.4E-02		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	08/03/2007	Am-241	-3.4E-03	+/- 9.9E-03	4.9E-03	5.1E-02	1.9E+00	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	08/03/2007	Cm-242	2.9E-02	+/- 4.1E-02	2.0E-02	3.9E-02		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	08/03/2007	Cm-243/244	0E+00	+/- 3.3E-04	1.7E-04	2.7E-02		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/03/2007	Am-241	-3E-03	+/- 1.1E-02	5.4E-03	5.6E-02	1.9E+00	
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/03/2007	Cm-242	1.6E-02	+/- 3.3E-02	1.6E-02	4.4E-02		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	08/03/2007	Cm-243/244	-6E-04	+/- 1.1E-03	5.6E-04	3.9E-02		
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	08/03/2007	Am-241	-2.6E-03	+/- 9.3E-03	4.6E-03	5.0E-02	1.9E+00	
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	08/03/2007	Cm-242	0E+00	+/- 4.8E-04	2.4E-04	4.0E-02		
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	08/03/2007	Cm-243/244	0E+00	+/- 3.3E-04	1.7E-04	2.8E-02		

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Attn: John McGehee

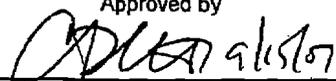
Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	08/03/2007	Am-241	-2E-03	+/- 1.1E-02	5.4E-03	5.8E-02	1.9E+00	
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	08/03/2007	Cm-242	-9E-04	+/- 1.7E-03	8.7E-04	6.0E-02		
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	08/03/2007	Cm-243/244	0E+00	+/- 3.9E-04	2.0E-04	3.3E-02		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	08/03/2007	Am-241	-4E-03	+/- 1.2E-02	5.9E-03	6.6E-02	1.9E+00	
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	08/03/2007	Cm-242	0E+00	+/- 6.1E-04	3.0E-04	5.1E-02		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	08/03/2007	Cm-243/244	-7E-04	+/- 1.3E-03	6.6E-04	4.6E-02		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	08/03/2007	Am-241	-3.7E-03	+/- 9.6E-03	4.8E-03	5.2E-02	1.9E+00	
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	08/03/2007	Cm-242	0E+00	+/- 4.7E-04	2.4E-04	3.9E-02		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	08/03/2007	Cm-243/244	-5E-04	+/- 1.0E-03	5.0E-04	3.5E-02		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	08/03/2007	Am-241	-3.2E-03	+/- 9.5E-03	4.8E-03	5.1E-02	1.9E+00	
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	08/03/2007	Cm-242	0E+00	+/- 4.7E-04	2.4E-04	3.9E-02		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	08/03/2007	Cm-243/244	0E+00	+/- 3.3E-04	1.6E-04	2.7E-02		

- Flags:**
- a The measured MDC is greater than the required MDC.
 - b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by

 C.A. Shelton
 Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

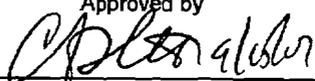
Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/03/2007	Am-241	-4E-03	+/- 1.2E-02	6.2E-03	6.5E-02	1.9E+00		
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/03/2007	Cm-242	3.7E-02	+/- 5.3E-02	2.6E-02	5.0E-02			
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	08/03/2007	Cm-243/244	-7E-04	+/- 1.3E-03	6.5E-04	4.5E-02			
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/13/2007	Am-241	1.7E-02	+/- 3.2E-02	1.6E-02	5.6E-02	1.9E+00		
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/13/2007	Cm-242	0E+00	+/- 4.7E-04	2.4E-04	4.3E-02			
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	08/13/2007	Cm-243/244	-2.1E-03	+/- 3.0E-03	1.5E-03	4.5E-02			
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/06/2007	Am-241	-2E-03	+/- 1.0E-02	5.1E-03	5.5E-02	1.9E+00		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/06/2007	Cm-242	0E+00	+/- 5.4E-04	2.7E-04	4.6E-02			
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	08/06/2007	Cm-243/244	0E+00	+/- 3.8E-04	1.9E-04	3.2E-02			
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/16/2007	Am-241	1.171E+00	+/- 9.3E-02	4.6E-02	1.6E-02	1.9E+00	b	
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/16/2007	Cm-242	2.4E-03	+/- 4.8E-03	2.4E-03	6.5E-03			
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	08/16/2007	Cm-243/244	3.52E-01	+/- 4.8E-02	2.4E-02	1.1E-02			b

Flags:
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Approved by


C.A. Shelton
Sample Control & Measurements Lead

c: Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
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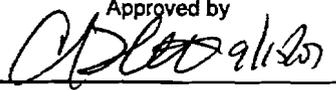
Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/06/2007	Am-241	-2E-03	+/- 1.2E-02	5.9E-03	7.2E-02	1.9E+00		
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/06/2007	Cm-242	-1.2E-03	+/- 2.4E-03	1.2E-03	8.2E-02			
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	08/06/2007	Cm-243/244	0E+00	+/- 5.0E-04	2.5E-04	4.4E-02			

- Flags:**
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Sample Control & Measurements Lead



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400 South Tryon Street
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Product AM-241 CM242,243,244

Report Date 09/12/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
A Blank											
L12561-24	BLANK	06/19/2007	08/06/2007	Am-241	-7E+00	+/- 1.4E+01	6.8E+00	7.6E+01			
L12561-24	BLANK	06/19/2007	08/06/2007	Cm-242	-8E-01	+/- 1.7E+00	8.3E-01	5.8E+01			
L12561-24	BLANK	06/19/2007	08/06/2007	Cm-243/244	0E+00	+/- 4.5E-01	2.3E-01	3.7E+01			
Control Spike											
L12561-22	CONTROL SPIKE CS	06/19/2007	08/16/2007	Am-241	1.112E+03	+/- 8.3E+01	4.1E+01	1.3E+01		b	
L12561-22	CONTROL SPIKE CS	06/19/2007	08/16/2007	Cm-242	3.2E+00	+/- 4.6E+00	2.3E+00	4.4E+00			
L12561-22	CONTROL SPIKE CS	06/19/2007	08/16/2007	Cm-243/244	3.84E+02	+/- 4.6E+01	2.3E+01	3.4E+00		b	

Flags:
a The measured MDC is greater than the required MDC.
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Approved by

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Sample Control & Measurements Lead

Fe-55



Environmental Laboratory Analysis Report

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Westboro, MA 01581
508-573-6650

Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product FE-55

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
<u>Soil</u>											
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/26/2007	Fe-55	4.7E+00	+/- 4.8E+00	2.4E+00	7.8E+00	2.0E+01		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/26/2007	Fe-55	-1E-01	+/- 4.2E+00	2.1E+00	7.2E+00	2.0E+01		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/26/2007	Fe-55	-2E-01	+/- 4.4E+00	2.2E+00	7.4E+00	2.0E+01		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/26/2007	Fe-55	4.1E+00	+/- 4.7E+00	2.4E+00	7.6E+00	2.0E+01		
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/26/2007	Fe-55	-3.9E+00	+/- 4.8E+00	2.4E+00	8.3E+00	2.0E+01		
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/26/2007	Fe-55	-1E+00	+/- 3.4E+00	1.7E+00	5.7E+00	2.0E+01		
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/26/2007	Fe-55	-5E-01	+/- 2.6E+00	1.3E+00	4.4E+00	2.0E+01		
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/26/2007	Fe-55	-9E-01	+/- 3.6E+00	1.8E+00	6.1E+00	2.0E+01		
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/26/2007	Fe-55	-1.7E+00	+/- 4.4E+00	2.2E+00	7.5E+00	2.0E+01		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/26/2007	Fe-55	-1.2E+00	+/- 4.2E+00	2.1E+00	7.2E+00	2.0E+01		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	07/26/2007	Fe-55	5E-01	+/- 2.9E+00	1.4E+00	4.8E+00	2.0E+01		

- Flags:**
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c: Don McGee

Approved by


 for C.A. Shelton
 Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
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Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product FE-55

Report Date 08/15/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting	
		Date	Date		+/- 2-Sigma (pCi/g)				Flags	Level Ratio
Soil										
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/26/2007	Fe-55	1E+00 +/- 3.8E+00	1.9E+00	6.4E+00	2.0E+01		
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/27/2007	Fe-55	-1.7E+00 +/- 3.5E+00	1.8E+00	6.0E+00	2.0E+01		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/27/2007	Fe-55	-3E+00 +/- 4.9E+00	2.5E+00	8.5E+00	2.0E+01		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/27/2007	Fe-55	-3E-01 +/- 3.7E+00	1.8E+00	6.2E+00	2.0E+01		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/27/2007	Fe-55	-1.9E+00 +/- 4.3E+00	2.2E+00	7.4E+00	2.0E+01		
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	07/27/2007	Fe-55	-2.5E+00 +/- 3.7E+00	1.9E+00	6.4E+00	2.0E+01		
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	07/27/2007	Fe-55	-1.9E+00 +/- 2.9E+00	1.4E+00	5.0E+00	2.0E+01		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	07/27/2007	Fe-55	-3.4E+00 +/- 2.9E+00	1.5E+00	5.2E+00	2.0E+01		
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	07/27/2007	Fe-55	1.668E+03 +/- 2.5E+01	1.4E+02	8.1E+00	2.0E+01	b	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	07/27/2007	Fe-55	-3E-01 +/- 5.0E+00	2.5E+00	8.4E+00	2.0E+01		

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by


 for C.A. Shelton
 Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product FE-55**Report Date** 08/15/07**Receipt Date** 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Reporting	
					+/-	2-Sigma				Flags	Level Ratio
A Blank											
L12561-24	BLANK	06/19/2007	07/27/2007	Fe-55	-4E+02	+/- 3.6E+03	1.8E+03	6.1E+03			
Control Spike											
L12561-22	CONTROL SPIKE CS	06/19/2007	07/27/2007	Fe-55	1.07E+06	+/- 1.3E+04	8.7E+04	3.6E+03		b	

Flags:

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c: Don McGee

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

**SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA**

5/3/2007

Page C-8 a of 8

Survey Package Appendix C – Survey Results

Survey Package: H4024 401B1 **Package:** Environ
Survey Area Name: Environmental Background Reference Area for SETF Building 4024
Survey Unit Name: Environmental Background Areas

Sample Analysis Results - Supplemental
***12* Pages**

H-3



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product H-3

Report Date 07/23/07

Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags Level Ratio
					+/-	2-Sigma				
Soil										
L12561-01	H4024 401B1 LA1S1 BC1	05/08/2007	07/06/2007	H-3	2E-01	+/- 1.1E+00	5.4E-01	1.6E+00	2.3E+00	
L12561-02	H4024 401B1 LA1S1 BC2	05/08/2007	07/06/2007	H-3	4E-01	+/- 1.1E+00	5.5E-01	1.6E+00	2.3E+00	
L12561-03	H4024 401B1 LA1S1 BC3	05/08/2007	07/06/2007	H-3	-2E-01	+/- 1.1E+00	5.7E-01	1.7E+00	2.3E+00	
L12561-04	H4024 401B1 LA1S1 BC4	05/08/2007	07/06/2007	H-3	-3E-01	+/- 1.1E+00	5.5E-01	1.7E+00	2.3E+00	
L12561-05	H4024 401B1 LA1S1 BC5	05/08/2007	07/06/2007	H-3	-3E-01	+/- 1.1E+00	5.4E-01	1.6E+00	2.3E+00	
L12561-06	H4024 401B1 LA1S1 BC6	05/08/2007	07/06/2007	H-3	1E-01	+/- 1.1E+00	5.7E-01	1.7E+00	2.3E+00	
L12561-07	H4024 401B1 LA1S1 WC1	05/04/2007	07/06/2007	H-3	-6E-01	+/- 1.1E+00	5.5E-01	1.7E+00	2.3E+00	
L12561-08	H4024 401B1 LA1S1 WC2	05/04/2007	07/06/2007	H-3	0E+00	+/- 1.1E+00	5.5E-01	1.7E+00	2.3E+00	
L12561-09	H4024 401B1 LA1S1 WC3	05/04/2007	07/06/2007	H-3	4E-01	+/- 1.1E+00	5.6E-01	1.7E+00	2.3E+00	
L12561-10	H4024 401B1 LA1S1 WC4	05/04/2007	07/06/2007	H-3	1E-01	+/- 1.1E+00	5.5E-01	1.6E+00	2.3E+00	

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c: Don McGee

Approved by
[Signature] 8/3/07
for C.A. Shelton
Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

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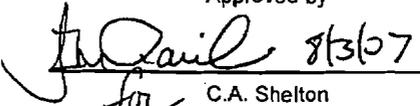
Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product H-3

Report Date 07/23/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting Flags	Level Ratio
					+/-	2-Sigma					
Soil											
L12561-11	H4024 401B1 LA1S1 WC5	05/04/2007	07/06/2007	H-3	-6E-01	+/- 1.1E+00	5.4E-01	1.6E+00	2.3E+00		
L12561-12	H4024 401B1 LA1S1 WC6	05/04/2007	07/06/2007	H-3	-1E-01	+/- 1.1E+00	5.6E-01	1.7E+00	2.3E+00		
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/2007	07/06/2007	H-3	-3E-01	+/- 1.1E+00	5.4E-01	1.6E+00	2.3E+00		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/2007	07/06/2007	H-3	0E+00	+/- 1.1E+00	5.6E-01	1.7E+00	2.3E+00		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/2007	07/06/2007	H-3	-3E-01	+/- 1.1E+00	5.5E-01	1.7E+00	2.3E+00		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/2007	07/06/2007	H-3	-9E-01	+/- 1.1E+00	5.6E-01	1.7E+00	2.3E+00		
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/2007	07/06/2007	H-3	4E-01	+/- 1.1E+00	5.5E-01	1.6E+00	2.3E+00		
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/2007	07/06/2007	H-3	-3E-01	+/- 1.1E+00	5.7E-01	1.7E+00	2.3E+00		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/2007	07/06/2007	H-3	8E-01	+/- 1.1E+00	5.7E-01	1.7E+00	2.3E+00		
L12561-20	H4024 401B1 LA1S1 MATRIX SPIKE	05/08/2007	07/06/2007	H-3	2.3E+00	+/- 1.2E+00	5.9E-01	1.6E+00	2.3E+00	b	
L12561-21	H4024 401B1 LA1S1 DUPLICATE	05/08/2007	07/06/2007	H-3	0E+00	+/- 1.1E+00	5.5E-01	1.7E+00	2.3E+00		

Flags:
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Charlotte, NC 28285
Attn: John McGehee

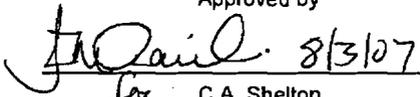
Product H-3

Report Date 08/03/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU	Measured	Required	Reporting Flags	Level Ratio
		Date	Date		+/-	2-Sigma	1 Sigma	MDC	MDC		
					(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)		
A Blank											
L12561-24	BLANK	06/19/2007	07/06/2007	H-3	-3E+01	+/- 6.8E+02	3.4E+02	1.0E+03	2.0E+03		
Control Spike											
L12561-22	CONTROL SPIKE CS	06/19/2007	08/02/2007	H-3	3.39E+03	+/- 3.3E+02	1.9E+02	4.3E+02	2.0E+03	b	

- Flags:**
- a The measured MDC is greater than the required MDC.
 - b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Ni-59



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-8650

Customer
 AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285
 Attention: John McGehee

Product Ni-59

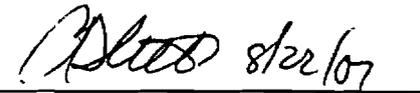
Report Date 08/21/07
Receipt Date 08/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
Soll										
L12561-01	H4024 401B1 LA1S1 BC1	05/08/07	07/26/07	Ni-59	-2.6E+02 ± 4.8E+02	2.4E+02	8.8E+02	2.0E+03		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/07	07/27/07	Ni-59	-2.2E+02 ± 8.4E+02	4.2E+02	1.5E+03	2.0E+03		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/07	07/27/07	Ni-59	2.3E+02 ± 8.0E+02	4.0E+02	1.3E+03	2.0E+03		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/07	07/27/07	Ni-59	-4.9E+02 ± 5.4E+02	2.7E+02	1.0E+03	2.0E+03		
L12561-05	H4024 401B1 LA1S1 BC5	05/08/07	07/27/07	Ni-59	-8E+01 ± 8.6E+02	4.3E+02	1.5E+03	2.0E+03		
L12561-06	H4024 401B1 LA1S1 BC6	05/08/07	07/27/07	Ni-59	-3.0E+02 ± 4.6E+02	2.3E+02	8.5E+02	2.0E+03		
L12561-07	H4024 401B1 LA1S1 WC1	05/04/07	07/27/07	Ni-59	-3.3E+02 ± 4.8E+02	2.4E+02	8.8E+02	2.0E+03		
L12561-08	H4024 401B1 LA1S1 WC2	05/04/07	07/27/07	Ni-59	-6E+01 ± 6.0E+02	3.0E+02	1.0E+03	2.0E+03		
L12561-09	H4024 401B1 LA1S1 WC3	05/04/07	07/30/07	Ni-59	-1.0E+02 ± 9.2E+02	4.8E+02	1.8E+03	2.0E+03		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/07	07/30/07	Ni-59	4.8E+02 ± 7.0E+02	3.5E+02	9.6E+02	2.0E+03		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/07	07/30/07	Ni-59	-3E+01 ± 4.6E+02	2.3E+02	7.8E+02	2.0E+03		

Flags: a The measured MDC is greater than the required MDC.
 b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by


 J. M. Raymond
 Laboratory Manager


 C. A. Shelton
 Sample Control and Measurements Lead



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer
 AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285
 Attention: John McGehee

Product Ni-59

Report Date 08/22/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
Soil										
L12561-12	H4024 401B1 LA1S1 WC6	05/04/07	07/30/07	Ni-59	-1.2E+02 ± 3.6E+02	1.8E+02	6.3E+02	2.0E+03		
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/07	07/30/07	Ni-59	2E+01 ± 4.8E+02	2.4E+02	7.9E+02	2.0E+03		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/07	07/30/07	Ni-59	-3.1E+02 ± 7.2E+02	3.6E+02	1.3E+03	2.0E+03		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/07	07/30/07	Ni-59	-2.5E+02 ± 5.8E+02	2.9E+02	1.0E+03	2.0E+03		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/07	07/31/07	Ni-59	8E+01 ± 7.2E+02	3.6E+02	1.2E+03	2.0E+03		
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/07	07/31/07	Ni-59	3.3E+02 ± 6.0E+02	3.0E+02	8.7E+02	2.0E+03		
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/07	07/31/07	Ni-59	2.6E+02 ± 5.4E+02	2.7E+02	8.3E+02	2.0E+03		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/07	07/31/07	Ni-59	5.4E+02 ± 6.8E+02	3.4E+02	9.3E+02	2.0E+03		
L12561-20	H4024 401B1 LA1S1 MS	05/08/07	07/31/07	Ni-59	2E+01 ± 7.0E+02	3.5E+02	1.2E+03	2.0E+03		
L12561-21	H4024 401B1 LA1S1 DUP	05/08/07	07/31/07	Ni-59	-4.2E+02 ± 6.8E+02	3.4E+02	1.2E+03	2.0E+03		

Flags: a The measured MDC is greater than the required MDC.
 b The activity concentration is greater than three times its one-sigma counting uncertainty.


 J. M. Raimondi
 Laboratory Manager


 C. A. Shelton
 Sample Control and Measurements Lead



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attention: John McGehee

Product Ni-59

Report Date 08/21/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/L)	TPU 1-Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
A. Blank										
L12561-24	Blank	06/19/07	07/31/07	Ni-59	-3.2E+02 ± 9.4E+02	4.7E+02	1.6E+03	None		
Control Spike										
L12561-22	Control Spike CS	06/19/07	07/31/07	Ni-59	7.3E+02 ± 9.6E+02	4.8E+02	1.3E+03	None		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by

J. M. Raimondi
Laboratory Manager

C. A. Shelton
Sample Control and Measurements Lead

Ni-63



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc.
Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Product Ni-63

Report Date 08/16/07
Receipt Date 06/19/07

Attention: John McGehee

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
<u>Soil</u>										
L12561-01	H4024 401B1 LA1S1 BC1	05/08/07	07/29/07	Ni-63	-6E-01 ± 2.6E+00	1.3E+00	4.2E+00	15		
L12561-02	H4024 401B1 LA1S1 BC2	05/08/07	07/29/07	Ni-63	-1.6E+00 ± 2.8E+00	1.4E+00	4.6E+00	15		
L12561-03	H4024 401B1 LA1S1 BC3	05/08/07	07/29/07	Ni-63	1.4E+00 ± 3.4E+00	1.7E+00	5.4E+00	15		
L12561-04	H4024 401B1 LA1S1 BC4	05/08/07	07/29/07	Ni-63	3E-01 ± 2.6E+00	1.3E+00	4.3E+00	15		
L12561-05	H4024 401B1 LA1S1 BC5	05/08/07	07/29/07	Ni-63	4E-01 ± 2.8E+00	1.4E+00	4.7E+00	15		
L12561-06	H4024 401B1 LA1S1 BC6	05/08/07	07/29/07	Ni-63	0E+00 ± 2.4E+00	1.2E+00	4.0E+00	15		
L12561-07	H4024 401B1 LA1S1 WC1	05/04/07	07/29/07	Ni-63	-6E-01 ± 2.2E+00	1.1E+00	3.6E+00	15		
L12561-08	H4024 401B1 LA1S1 WC2	05/04/07	07/29/07	Ni-63	1E-01 ± 2.4E+00	1.2E+00	3.9E+00	15		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by


J. M. Raimondi
Laboratory Manager


C. A. Shelton
Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
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Customer
AREVA NP Inc.
Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attention: John McGehee

Product Ni-63

Report Date 08/16/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
Soil										
L12561-09	H4024 401B1 LA1S1 WC3	05/04/07	07/29/07	Ni-63	-1.1E+00 ± 3.2E+00	1.6E+00	5.2E+00	15		
L12561-10	H4024 401B1 LA1S1 WC4	05/04/07	07/29/07	Ni-63	-1.2E+00 ± 2.8E+00	1.4E+00	4.5E+00	15		
L12561-11	H4024 401B1 LA1S1 WC5	05/04/07	07/29/07	Ni-63	-1.8E+00 ± 1.8E+00	8.9E-01	3.0E+00	15		
L12561-12	H4024 401B1 LA1S1 WC6	05/04/07	07/29/07	Ni-63	3E-01 ± 2.2E+00	1.1E+00	3.6E+00	15		
L12561-13	H4024 401B1 LA1S1 SSP1	05/09/07	07/29/07	Ni-63	7E-01 ± 1.9E+00	9.7E-01	3.2E+00	15		
L12561-14	H4024 401B1 LA1S1 SSP2	05/09/07	07/29/07	Ni-63	-1.4E+00 ± 3.4E+00	1.7E+00	5.6E+00	15		
L12561-15	H4024 401B1 LA1S1 SSP3	05/09/07	07/29/07	Ni-63	-5E-01 ± 2.2E+00	1.1E+00	3.5E+00	15		
L12561-16	H4024 401B1 LA1S1 SSP4	05/09/07	07/29/07	Ni-63	-9.0E-01 ± 3.2E+00	1.6E+00	5.1E+00	15		
L12561-17	H4024 401B1 LA1S1 SSP5	05/09/07	07/29/07	Ni-63	-1.5E+00 ± 2.6E+00	1.3E+00	4.3E+00	15		
L12561-18	H4024 401B1 LA1S1 SSP6	05/09/07	07/29/07	Ni-63	-1.1E+00 ± 2.2E+00	1.1E+00	3.7E+00	15		
L12561-19	H4024 401B1 LA1S1 QA1	05/10/07	07/29/07	Ni-63	-3.0E+00 ± 2.8E+00	1.4E+00	4.6E+00	15		
L12561-20	H4024 401B1 LA1S1 Matrix Spike	05/08/07	07/29/07	Ni-63	2.00E+03 ± 3.2E+02	1.6E+02	5.2E+00	15	b	
L12561-21	H4024 401B1 LA1S1 Duplicate	05/08/07	07/29/07	Ni-63	-8E-01 ± 2.2E+00	1.1E+00	3.7E+00	15		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than two times its one-sigma counting uncertainty.

Approved by


J. M. Raimondi
Laboratory Manager


C. A. Shelton
Sample Control & Measurements Lead



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc.
Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Product Ni-63

Report Date 08/16/07

Receipt Date 06/19/07

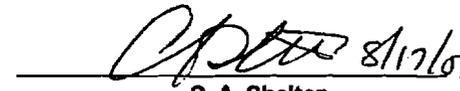
Attention: John McGehee

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
A. Blank										
L12561-24	BLANK	06/19/07	07/30/07	Ni-63	-2E+00 ± 2.8E+00	1.4E+00	4.5E+00	15		
Control Spike										
L12561-22	Control Spike CS	06/19/07	07/30/07	Ni-63	1.00E+03 ± 1.6E+02	7.9E+01	4.2E+00	15		

- Flags:
- a The measured MDC is greater than the required MDC.
 - b The activity concentration is greater than two times its one-sigma counting uncertainty.

Approved by

 8/17/07
J. M. Raimondi
Laboratory Manager

 8/17/07
C. A. Shelton
Sample Control & Measurements Lead

Page 1 of 1

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