Attachment D

Final Status Survey Report #4 Documentation

(UNDER SEPARATE COVER)

FINAL

COLUMBUS CLOSURE PROJECT CHARACTERIZATION AND FINAL STATUS SURVEY REPORT FOR THE JN-3 FOUNDATION AREA

Revision 2
June 16, 2006

Prepared by

ECC & E2 Closure Services
1425 State Route 142 East
West Jefferson, OH 43162

Contract Number: DE-AC24-04OH20171

Final Characterization and Final Status Report for the JN-3 Foundation Area

Revision Data Compiled By:

Randy Parsons, Characterization Lead — Date

FSS Report Written By:

Keith Anderson, Site Radiation Safety Officer — Date

Approved By:

Glenn Henderson, Project Manager — Date

Dave Garber, Quality Assurance Manager — Date

Signatory page represents only revisions to this document that may reflect comments received by the U.S. Department of Energy, Battelle Memorial Institute, and the Oak Ridge Institute for Science and Education (ORISE). As such, original data compilation and drafting may have been by other Employees, Representatives, or Subcontractors of LLC, ALARA Closure Services, LLC, not specifically represented by said Signatory Page.

Contract Number: DE-AC24-04OH20171

This report is a work prepared for the United States Government by ECC & E2 Closure Services, LLC. In no event shall either the United States Government or ECC & E2 Closure Services. LLC have any responsibility or liability for any consequences of any use, misuse, inability to use, or reliance upon the information as used by other parties contained herein, nor does it either warrant or otherwise represent in any way the accuracy, adequacy, efficacy, or applicability of the contents hereof to other parties.

Table of Contents

1.0 Introduction 1
1.1 Background 1
2.0 Site Description 3
2.1 Area Description 3
3.0 Decommissioning Activities 4
3.1 Decommissioning Objective 4
4.0 Final Status Survey Procedures 5
4.1 Sampling Parameters 5
4.2 Major Contaminants Identified 5
4.2.1 Guidelines Established 6
5.0 Equipment and Procedures 7
5.1 Equipment 7
5.2 Scanning Minimum Detectable Activities 7
5.3 Procedures 7
6.0 Survey Findings 9
6.1 Exposure Rate Surveys 9
6.2 Excavation Sampling 9
6.3 Overburden Sampling 10
6.4 Scanning Measurements 11
7.0 Conclusions 12
8.0 References 13

Figures

Figure 1 Site Map
Figure 2 JN-3 Foundation Area Map

Tables

Table 1 BCLDP Guidelines for Residual Radioactivity Concentrations for Soil and Solid Volumes
Table 2 Cesium-137 Surrogate Analysis Data & Modified Cs-137 Screening Criteria
Table 3 JN-3 Foundation Area Dose Rate Survey
Table 4 JN-3 Foundation Area Soil Result Summary
Table 5 JN-3 Foundation Area Soil Analytical Results
Table 6 JN-3 Foundation Area Overburden Sample Results
Table 7 Excavation Overburden Comparison Value Calculation
Table 8 JN-3 Foundation Area Walkover Scan Results
Table 9 Routine Plant Perimeter Surveys

1.0 Introduction

This report contains the final status surveys (FSS) for the JN-3 foundation area located at the Columbus Closure Project (CCP), 1425 State Route 142 East, West Jefferson. OH 43162. Final status surveys were conducted according to the guidance presented in the *Manual for Conducting Surveys in Support of License Termination*, NUREG/CR-5849 (NUREG/CR-5849) (ORAU, 1992) and the *Radiological Characterization and Final Status Plan for Battelle Columbus Laboratories Decommissioning Project, West Jefferson Site*, DD-97-02 (Final Status Plan) (Battelle, 2000). The final status surveys were conducted in March and April of 2005 and performed under Work Instruction 2806 (Closure Services, 2004).

The intent of this final status survey report is to provide a complete and unambiguous record of the radiological status of the excavation. Sufficient information and data is provided to enable an independent re-creation and evaluation at some future date of both the survey activities and the reported results for the excavation. Information in this report is also available in referenced technical basis documents, final status survey plans and procedures, and the *Battelle Memorial Institute Columbus Operations, Decommissioning Plan*, DD-93-19 (BMI Decommissioning Plan), and reporting and quality assurance procedures.

To the extent practicable, this final status survey report is presented with minimal information incorporated by reference. This final status survey report has been generated following the comprehensive, annotated outline presented in Chapter 9 of NUREG-5849 (ORAU, 1992).

1.1 Background

On April 16, 1943, BMI, acting through what is now its Battelle Columbus Operations (BCO), entered into Contract No. W-7405-ENG-92 with the Manhattan Engineering District to perform atomic energy research and development (R&D) activities. BCO performed nuclear materials research and development at privately-owned facilities for the Manhattan Engineering District and its successor agencies – the Atomic Energy Commission (AEC), the Energy Research and Development Agency (ERDA), and the Department of Energy (DOE). Research and development continued until 1988 (Battelle, 2003a).

The BCO facilities at the King Avenue Site, Columbus, Ohio, and the West Jefferson North (WJN) and South (WJS) Sites, West Jefferson, Ohio, became partially radiologically contaminated as a result of the R&D activities. Decontamination of the King Avenue and WJS Sites has been completed and activities continue at the WJN site. The DOE, as the successor to the AEC and the Government's earlier work, is the agreed party with predominant liability and responsibility for decontamination and decommissioning (D&D) of the BCO facilities (Battelle, 2003a). The Assistant Secretary for Nuclear Energy of the DOE accepted the decontamination and decommissioning (D&D) of the WJN into the DOE's Surplus Facilities Management Program as a major

project (DOE, 1986). The DOE is the agency funding and managing the cleanup of the WJN (Battelle, 2003a). However, the site is not a DOE-owned facility.

BMI holds U.S. Nuclear Regulatory Commission (NRC) license number SNM-7. BMI has continually operated and conducted D&D activities in full compliance with this NRC license. The BMI Decommissioning Plan for the WJN site does not serve as a declaration to terminate SNM-7, but establish the criteria for performing D&D activities. The end goal of the BMI Decommissioning Plan is to reach unrestricted use conditions for the site (Battelle, 2003a).

The DOE has contracted ECC&E2 Closure Services, LLC (Closure Services) to safely remove DOE radioactive materials and contamination from the WJN site. Removal of radioactive material will be to levels allowing future use of the site without radiological restrictions as described in the BMI Decommissioning Plan. Closure Services has conducted characterization and final status surveys of the JN-3 foundation excavation to demonstrate that the area is available for unrestricted release.

2.0 Site Description

Created in 1984, the Battelle Columbus Decommissioning Project (BCLDP) is a remediation project that includes nine buildings at the King Avenue site and five at the WJN site. The CCP is the successor of the BCLDP. The WJN site has one permanent structure (Well House). Three former research facilities, JN-1, JN-2, and JN-3 have been demolished as well as JN-6, the guard house. Several outfalls, filter beds, and wells are also located at the site. The JN-3 foundation area is the area below and surrounding the JN-3 foundation slab. Figure 1 shows the JN-3 facility in relation to the CCP site.

2.1 Area Description

Building JN-3 was 131 feet long, 66 feet wide and about 44 feet above ground. It is constructed of cement block faced with brick up to 24 feet above ground and aluminum siding the rest of the way. Building JN-3 was demolished in 2004. The first, or experimental floor, was 12 feet below ground level. Various drain lines as well as building areas were known to be contaminated above the volumetric release limits presented in DD-93-03, Rev. 0, "Volumetric Release Criteria Technical Basis Document for Battelle Columbus Laboratory Decommissioning Project" (Battelle, 1993). For this reason, the piping, surrounding soils, and building components were removed and disposed of as low level waste. These areas included the pump room and reactor walls and floor, and various sanitary drains and pipes. The majority of the JN-3 foundation and walls were released per HP-OP-011 and disposed of off-site as sanitary waste. The location of the JN-3 foundation area, available for unrestricted release, is highlighted in Figure 2.

Two classifications of areas are used in NUREG-5849 and are termed **affected** or **unaffected.** These classifications are defined as (NRC, 1992):

> **Affected Areas:** Areas that have potential radioactive contamination (based on plant operating history) or known radioactive contamination (based on past or preliminary radiological surveillance). This would normally include areas where radioactive materials were used and stored, where records indicate spills or other unusual occurrences that could have resulted in spread of contamination, and where radioactive materials were buried. Areas immediately surrounding or adjacent to locations where radioactive materials were used, stored, or buried are included in this classification because of the potential for inadvertent spread of contamination.
>
> **Unaffected Areas:** All areas not classified as affected. These areas are not expected to contain residual radioactivity, based on knowledge of site history and previous information.

The JN-3 foundation excavation was considered affected.

3.0 Decommissioning Activities

3.1 Decommissioning Objective

The objective of the final status survey performed on the JN-3 foundation area was to statistically demonstrate that the remediation of the area was successful and that the excavation is free from residual radioactive contamination that would not make it suitable for unrestricted release. The excavation is determined to be free of residual radioactive contamination when remaining soil contamination levels are below those presented in DD-93-03, Rev. 0, "Volumetric Release Criteria Technical Basis Document for Battelle Columbus Laboratory Decommissioning Project" (Battelle, 1993A). **Table 1** presents the volumetric release criteria as presented in DD-93-03, Rev. 0.

4.0 Final Status Survey Procedures

Planning and implementation of the final status survey of the excavation adhered to the requirements of the Final Status Plan (Battelle, 2000) and Work Instruction 2806 (CS, 2004)

4.1 Sampling Parameters

Final status samples of the JN-3 foundation area were taken by dividing ten by ten meter grids in four quadrants and taking samples from each quadrant. Analyses of samples by gamma spectroscopy were performed by the Onsite Radioanalytical Laboratory (RAL).

4.2 Major Contaminants Identified

The characterization of the JN-3 foundation area excavation identified Cesium-137 (Cs-137) as the primary radiological contaminant of concern (RCOC). Other RCOCs included Cobalt-60 (Co-60), Europium-152 (Eu-152), Eu-154, Americium-241 (Am-241), Strontium-90 (SR-90), Plutonium-238 (Pu-238), Pu-239, and Pu-241. Cs-137 is used as a surrogate for the other RCOC present in the soils as it typically accounts for 64 percent of the total isotopic activity. Further, the release criteria set for Cs-137 is considered conservative for the decommissioning activities. The surrogate relationship of Cs-137 to other RCOCs was calculated using data presented in **Table 2. Table 2** presents the isotopic quantity and activity concentrations of samples collected from the filter bed area by BMI from March through September 2000. These data are not associated with the excavation of the JN-3 foundation area. Average activities for the multiple samples were calculated for each RCOC prior to setting the ratios against Cs-137.[1] For each RCOC, the average activity concentration was set as a ratio against the average Cs-137 activity concentration as obtained from previous actions at the filter beds. Cs-137 activity ratios for each RCOC utilized to calculate the RCOCs for the JN-3 foundation are presented at the lower portion of **Table 2.**

These ratios are used for the JN-3 foundation area since the drain lines removed from the JN-3 excavation are a contributory to the impacted filter bed areas. Ag-108m was not detected in final status samples above detection limits and is not included in the calculations. Similarly, C-14 was detected slightly above detection limits in a small percentage of samples at levels up to 10 pCi/g. The cleanup criteria for C-14 is 940 pCi/g, and as a result, C-14 is not included in the calculations.

[1] Battelle, *Radiological Status of Abandoned Filter Bed Presentation*, http://www.ohio.doe.gov/ccp_seb/, Posted 7/15/2003. Presentation provided by DOE to the CCP website. Page titled "Radioactive Inventory of the Abandoned North Filter Beds & Limit Fractions" contains sampling data obtained from March through September 2000 from the filter beds. Average Cs-137 ratios were utilized to calculate the activity concentrations of the isotopes of concern.

4.2.1 Guidelines Established

Table 1 presents the guidelines for residual radioactivity concentrations for soil and solid volumes as applied to the excavation. Criteria for residual radioactivity concentrations in soil are defined in a number of references. DOE Order 5400.5, Section IV.a.2 provides generic guidelines for residual concentrations of Ra-226, Ra-228, Th-230, and Th-232. NRC Guidance has been received by the CCP which contains soil radioactivity concentration guidelines for Co-60, Sr-90, Cs-137, Ra-226, and Ra-228. NRC guidance for soil radioactivity concentration guidelines for natural, enriched and depleted uranium are also utilized. **Table 1** compiles soil residual radioactivity concentration guidelines to be utilized by the CCP. **Table 1** values have been generated primarily from the various reference technical documents and from soil guidelines generated from computer pathway analyses. Pu-241 is calculated by applying a ratio to sum of Pu-238 and Pu-239 (obtained from ORIGEN 2.1 derived values, Battelle, 2003c), resulting in a Cs-137 to Pu-241 ratio of 2.8. Using the ratios from **Table 2**, and the Cs-137 to Pu-241 ratio of 2.8, the sum of ratios of radionuclides will meet unity at Cs-137 concentrations of 11 pCi/g.

Exposure rates were compared to the 5 μR/hr above mean background limit listed in DD-97-02, Rev. 0. The calculated mean background exposure rate and the 95 percent confidence intervals used for the CCP grounds are 8 ± 2 μR/hr. Data collected from trench-like culverts located on Battelle property unassociated with site operations indicate a geometry effect, increasing the exposure rates inside the trenches by 3 to 5 μR/hr.

5.0 Equipment and Procedures

5.1 Equipment

Survey instruments sensitive to gamma radiation are used to monitor excavation surfaces for residual radioactive materials. Ludlum Model 44-10 two-inch by two-inch sodium iodide detectors with Eberline ESP-2 meters were used to scan the excavation. Ludlum Model 19 exposure rate meters were used to obtain microRoentgen per hour measurements.

Other instrumentation used in the RAL to support the final status survey includes:

- A VMS based Canberra Procount data acquisition system in conjunction with high purity germanium detectors for gamma spectroscopy of soil samples.
- A Tennelec Model LB5100 Simultaneous Alpha and Beta Gas Proportional Counter to count smear samples

5.2 Scanning Minimum Detectable Activities

Scanning minimum detectable concentrations (MDC_{scan}) is determined to demonstrate that the MDC_{scan} is less than the modified Cs-137 screening criteria. The MDC_{scan} is calculated utilizing the methodology described in NUREG-1507 and the background count rate and a default detector response to Cs-137 (NRC. 1998). The equation during the walkover surveys of the CCP incorporates a d' of 1.38 and a surveyor efficiency of 0.5. The ambient background in the area was 16.000 counts per minute (cpm). The following is the calculation of the MDC_{scan}:

b_i	=	(16,000 cpm) x (1 sec) x (1 min/60 sec)	=	267 counts
MDCR	=	(1.38) x ($\sqrt{267 counts}$) x (60 sec/1min)	=	1350 cpm
$MDCR_{surveyor}$	=	1350 cpm/$\sqrt{0.5}$	=	1910 cpm
MDER	=	1910 cpm/(900 cpm/μR/hr	=	2.12 μR/hr
MDC_{scan}	=	$(5 pCi/g) * \frac{2.12 \mu R/hr}{1.307 \mu R/hr} = 8.11 pCi/g$		

5.3 Procedures

The Characterization Team was formally trained and qualified to applicable procedures prior to the initiation of the characterization and final status surveys. Documentation of training is maintained by CCP Project Records.

The following plans and procedures were utilized for the surveys:

DD-93-19, Rev. 5	Decommissioning Plan, Battelle Memorial Institute Columbus Operations
DD-97-02, Rev. 0	Radiological Characterization and Final Status Plan for BCLDP West Jefferson Site
SC-SP-004.2, Rev. 3	Manual and Mechanical Collection of Surface and Subsurface Soil Samples in Support of Site Characterization
WI-2806	Excavation and Trench Sampling and Surveys

6.0 Survey Findings

6.1 Exposure Rate Surveys

The calculated mean background exposure rate and the 95 percent confidence intervals used for the CCP grounds are 8 ± 2 μR/hr. The exposure rate readings for the excavation are presented in **Table 3**. The exposure rate readings were individually compared to the mean background value of 8 ± 2 μR/hr in order to show compliance with the 5 μR /hr above background release criterion (grounds exposure rate surveys must be less than or equal to13 μR/hr to be compliant, trenches, less than or equal to 18 μR/hr). The average one meter measurement was 15.6 μR/hr, the minimum measurement was 13 μR/hr and the maximum measurement was 21 μR/hr. The increased exposure rate in the area is attributable to the area's proximity to Building JN-1. Building JN-1 is the hot cell facility and is in active decontamination and decommissioning. Routine exposure rate surveys performed, of the area to the west of Building JN-1 and immediately east of the JN-3 foundation area, averaged 33 ± 37 μR/hr as noted in **Table 9**. The average and maximum exposure rates are within 5 μR/hr of the ambient background at the time of the final status survey.

Closure Services subsequently performed external exposure rate surveys of the JN-3 area grounds following the demolition and removal of Building JN-1. The results of these surveys are compliant with the exposure rate release criteria and are included in the Final Status Survey Report for *Remaining Land Areas Inside the WJN Site Restricted Area.*

6.2 Excavation Sampling

Samples of the excavation were taken at a rate of four per ten by ten meter grid in accordance with Section 6.3.3 of DD-97-02, Rev. 0. Summary tables of the Cs-137 results in relation to the sample locations are presented as **Table 4**. Sample results for the excavation are presented as **Table 5**. **Table 5** presents all radionuclides activities and minimum detectable activities of the analyses.

Cesium-137 is utilized as a surrogate for determining compliance to the cleanup criteria presented in **Table 1**. The CCP has consistently utilized Cs-137 as a surrogate for other radionuclides of concern as it is the predominate radionuclide present throughout the site and the buildings. Additionally, Cs-137 exhibits the lowest cleanup criteria of 15 pCi/g. The calculation of the Cs-137 surrogate value is performed utilizing sample results obtained prior to remediation of the area in question. Pu-241 is calculated by applying a ratio to sum of Pu-238 and Pu-239 (obtained from ORIGEN 2.1 derived values, Battelle, 2003c), resulting in a Cs-137 to Pu-241 ratio of 2.8. **Table 2** presents the results of the pre-remediation samples of the filter bed and are not associated with JN-3 Foundation Area.

Compliance to the cleanup criteria presented in **Table 1** is demonstrated through a "fraction of limit." The total quantity and activity concentrations are calculated using the

average isotopic ratios of radionuclides to Cs-137 as obtained for the filter beds, with the exception of Pu-241 (Battelle, 2003b). See **Table 2**. Results for Co-60, Cs-137, Sr-90, Eu152 and 154, Pu-239, 240 and 241, and Am-241 are compared to the respective release criteria and a "fraction of limit" calculated. The "fraction of limit" is determined by summing the ratios of each isotopic concentration to the respective release limit. The sum of ratios must be less than one to meet sample release criteria. This ratio has been used in past technical basis documents which have been reviewed and approved by the NRC and licensee. A modified screening criteria for CS-137 is set at 11 pCi/g by calculating a sum of ratios for the RCOCs using the Cs-137 surrogate ratios presented in **Table 2**. The "fraction of limit" for the JN-3 foundation samples was not calculated due to the low concentrations of Cs-137 in respect to the modified screening criteria.

Statistical analyses were performed on the sample data in accordance with Section 6.4.3 of DD-97-02, Rev. 0. Statistical analysis was performed according to NUREG/CR-5849, in which the EPA has recommended applying the calculated value of μ_α, relative to a guideline value, at a desired level of confidence. The value of μ_α is compared to the guideline value; if the μ_α is less than the guideline, the area meets the guideline at a 95% confidence level. This in turn means that the probability is less than 5% that the μ_α will pass the test, when the true mean activity level exceeds the guideline value. The calculated μ_α, for Cs-137 of 0.18 pCi/g for the excavation base, was less than the modified screening criteria of 11 pCi/g. The following is a summary table of the Cs-137 results, for the excavation base, and statistical analysis as discussed above.

Location	Number of Samples	Average (pCi/g)	Standard Deviation (pCi/g)	Range (pCi/g)	Comparison Value (pCi/g)	Modified Screening Criteria (pCi/g)
Excavation Base	198	0.16	0.24	0.02-1.80	0.18	11

6.3 *Overburden Sampling*

Twenty samples were taken from the excavation overburden in accordance with Section 6.4.3 of DD-97-02, Rev. 0 and Work Instruction 2806. A summary table of the Cs-137 results in relation to the sample location is presented as **Table 6**. The only man-made radionuclide detected was Cs-137. The requirements for the statistical analyses are discussed in Section 6.2 above. The calculated μ_α, for Cs-137 of 0.09 pCi/g for the overburden material, was less than the modified screening criteria of 11 pCi/g. The following is a summary table of the Cs-137 results for the overburden sampling. The comparison value calculation is presented in **Table 7.**

Location	Number of Samples	Average (pCi/g)	Standard Deviation (pCi/g)	Comparison Value (pCi/g)	Modified Screening Criteria (pCi/g)
Overburden	44	0.07	0.10	0.09	11

6.4 Scanning Measurements

Scanning of the JN-3 foundation area was performed with a two inch by two inch sodium iodide detector. The JN-3 foundation area surveys exceeded the DLV, but exhibited uniformity and a direct correlation with the exposure rate survey. Characterization Technicians also obtained additional samples in the area to verify that surface soils met the cleanup criteria. Survey results are presented as **Table 8**.

7.0 Conclusions

The characterization and final status survey results demonstrate that the radiological endpoint criteria objectives of the NRC-approved Decommissioning Plan have been met for the excavation addressed by this effort. (Battelle, 2003) Reported analytical results for media samples obtained from the excavation and overburden are below the residual radioactivity concentrations for soil and solid volumes as presented in **Table 1**.

Remaining soil contamination levels are below those in DD-93-03, Rev. 0, "Volumetric Release Criteria Technical Basis Document for the Battelle Columbus Laboratory Decommissioning Project" (Battelle, 1993A). The decommissioning objective has been satisfied. The final status survey performed on the JN-3 foundation area, demonstrates that the remediation of the area was successful and that the excavation meets the residual radioactivity criteria for unrestricted release.

8.0 References

Battelle. 2003a. "Decommissioning Plan for the Battelle Memorial Institute Columbus Operations," DD-93-19.

Battelle. 2003b. Radiological Status of Abandoned Filter Bed Presentation, http://www.ohio.doe.gov/ccp_seb/, Posted 7/15/2003. Presentation provided by DOE to the CCP website. Page titled "Radioactive Inventory of the Abandoned North Filter Beds & Limit Fractions" contains sampling data obtained from March through September 2000 from the filter beds. Average Cs-137 ratios were utilized to calculate the activity concentrations of the isotopes of concern.

Battelle, 2003c. Waste Characterization, Classification, and Shipping Support Technical Basis Document. Rev. 5 for BCLDP West Jefferson Facility, November 2003. Isotopic mixture for Pu-241 is calculated using the values obtained from the ORIGEN2.1-derived data values presented in the technical basis document.

Battelle, 2000. "Radiological Characterization and Final Status Survey Plan for Battelle Columbus Laboratory Decommissioning Project West Jefferson Site," DD-97-02.

Battelle, 1993. "Volumetric Release Criteria Technical Basis Document for Battelle Columbus Laboratories Decommissioning Project," DD-93-03.

ECC&E2 Closure Services. LLC (Closure Services, 2004). Work Instruction 2806, Rev. 2. Excavation and Trench Sampling and Survey.

U.S. Department of Energy (DOE), 1990. Finding of No Significant Impact, Decontamination and Decommissioning of the Battelle Columbus Laboratories in Columbus and West Jefferson, Ohio.

U.S. Department of Energy (DOE), 1986. May 29, 1986 memorandum. Voight to Vaughan. approved by Vaughan, June 10, 1986.

U.S. Nuclear Regulatory Commission (NRC), 1998. "Minimum Detectable Concentrations With Typical Radiation Survey Instruments for Various Contaminants and Field Conditions" NUREG-1507.

Oak Ridge Associated Universities (ORAU). 1992. "Manual for Conducting Radiological Surveys in Support of License Termination, Draft Report for Comment" NUREG/CR-5849, ORAU-92/C57, prepared for the Nuclear Regulatory Commission by the Environmental Survey and Assessment Program, Energy/Environmental Systems Division, ORAU. 1992.

FIGURES

FIGURE 1
SITE MAP

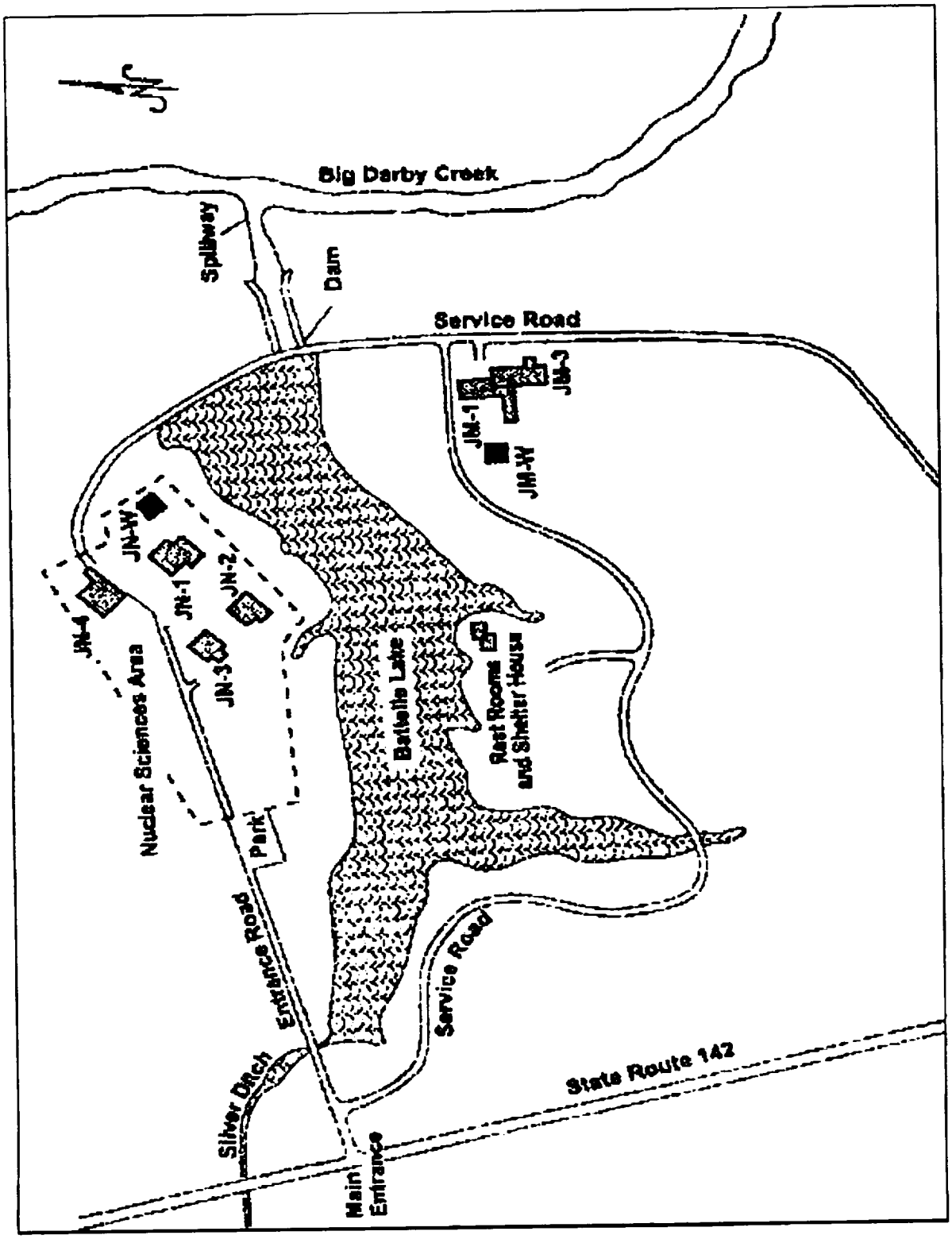
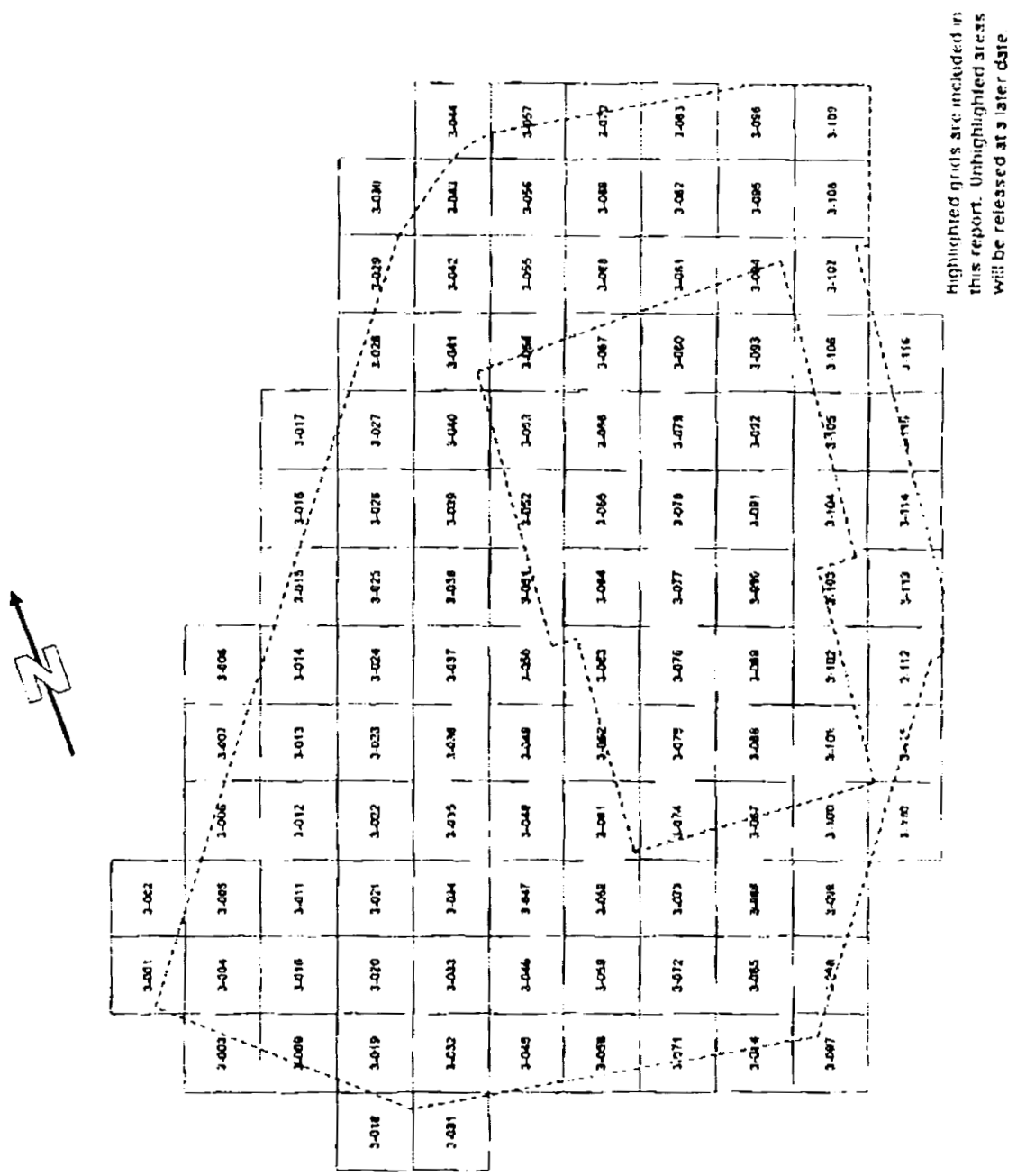


Figure 2

JN-3 Foundation Area Map



TABLES

TABLE 1
BCLDP GUIDELINES FOR RESIDUAL
RADIOACTIVITY CONCENTRATIONS FOR SOIL AND SOLID VOLUMES

Radionuclide[a]	King Avenue Concentration (pCi/g)[b]	West Jefferson Concentration (pCi/g)[b]
Natural Uranium	10[1]	na[c]
Enriched Uranium	30[1]	30[1]
Depleted Uranium	35[1]	35[1]
Ac-227	19	19
Am-241	na[c]	30[4]
Am-243	na	30[4]
Ce-144	na	2,100
Cm-243	na	0.79
Cm-244	na	1.0
Co-60	8[2]	8[2]
Cs-134	na	33
Cs-137	15[2]	15[2]
C-14	940	940
Eu-152	na	36
Eu-154	na	32
Eu-155	na	1,800
Fe-55	na	2.7E+07
H-3[d]	41,000	38,000
I-129	na	13
Mn-54	na	61
Ni-59	na	1.3E+07
Ni-63	na	4.9E+06
Np-237	na	0.58
Pa-231	18	18
Pb-210	140	na
Pu-238	na	25[4]
Pu-239	na	25[4]
Pu-240	na	25[4]
Pu-241	na	25[4]
Pu-242	na	25[4]

Radionuclide[a]	King Avenue Concentration (pCi/g)[b]	West Jefferson Concentration (pCi/g)[b]
Ra-226 (0-15 cm of soil)	5[2,3]	na
Ra-226 (>15 cm of soil)	15[2,3]	na
Ra-228	5[2,3]	na
Ru-106	na	180
Sb-125	na	118
Sm-151	na	6.700
Sr-90	5[2]	5[2]
Th-228	29	na
Th-230	5[3]	na
Th-232	5[3]	na

Table 1 Notes and References

Notes:

a. Activity concentrations above natural background concentrations. Where more than one radionuclide is present, the sum of the ratios of the individual radionuclide concentrations to their respective concentration limits shall not exceed 1.

b. Concentrations for which no specific reference is cited have been derived from RESRAD calculations and are the more restrictive values calculated for soil deposition at a depth of 5 meters.

c. Indicates that this radionuclide is not expected to be found at the indicated site.

d. Difference in tritium activity concentrations are due to the difference in depths of the water tables at two sites. The water table depth at King Avenue is deeper than that at West Jefferson.

References:

1. Options 1 and 2 of the Branch Technical Position, "Disposal or Onsite Storage of Thorium or Uranium Wastes from Past Operations" (46 FR 52061, October 23, 1981).

2. NRC Memorandum, "Acceptable Cleanup Criteria and Practices for Decontamination and Decommissioning (License No. SNM-7)" dated April 17. 1992, to Harley L. Toy, License Coordinator and Manager, Nuclear Sciences, Battelle Memorial Institute from J.W.N. Hickey, Chief, Fuel Cycle Safety Branch, Division of Industrial and Medical Nuclear Safety, Office of Nuclear Material Safety and Safeguards.

3. DOE Order 5400.5, "Radiation Protection of the Public and the Environment".

4. NRC Policy and Guidance Directive FC83-23, "Termination of Byproduct, Source, and Special Nuclear Material Licenses".

Table 2
Cesium-137 Surrogate Analysis Data & Modified Cs-137 Screening Criteria

Sample ID (a,b)	Cs-137 Activity (pCi/g)	Co-60 Activity (pCi/g)	Eu-152 Activity (pCi/g)	Eu-154 Activity (pCi/g)	Am-241 Activity (b) (pCi/g)	Sr-90 Activity (pCi/g)	Pu-238 Activity (pCi/g)	Pu-239 Activity (pCi/g)
16741	40 1	0 05	<0 096	<0 053	1 36 g	<0 172	<0.009	0.053
16746	21 6	0 04	<0.079	<0.051	1 29 g	<0 184	0.026	0.9
16747	26 1	0 06	<0.077	<0.046	0.89 g	<0 175	<0.011	0.116
16751	8	<0 024	<0.068	<0.047	0.93g	<0 151	0.021	0.496
16752	39.1	0.06	<0.086	<0.046	10.74 g	<0.167	0.131	5.822
16607	74 2	0.28	7.26	0.65	1.18 g	0.59	0.0213	0.629
16608	18.7	0.07	4.03	0 26	0 47 g	<0 180	0.016	0.287
16668	41 6	0 08	<0.098	<0.061	2 59 g	NA	0.036	1 846
16686	38 1	0 07	<0 050	<0 031	4 71 g	NA	0.135	3.84
19079	11 7	0 17	8 02	0 64	0.018	4 39	<0 016	0 034
19080	32 4	<0.016	0.562	<0.053	<0 016	0 21	<0 019	<0.017
Average	*31.99*	*0 084*	*1.857*	*0 176*	*2.2*	*0 691*	*0.04*	*1.276*

Calculated Cs-137 Surrogate Ratio (c)	
Cs-137/Co-60	381
Cs-137/Eu-152	17
Cs-137/Eu-154	182
Cs-137Am-241	15
Cs-137/Sr-90	46
Cs-137/Pu-238	800
Cs-137/Pu-239	25
Cs-137/Pu-241 (d)	2 8

Modified Cs-137 Screening Criteria			
Cleanup Criteria (pCi/g)		*Surrogate Activity (pCi/g)*	*Summed Ratio*
Cs-137	15	11	0 73
Co-60	8	0 028884026	0 00
Eu-152	36	0 638543295	0 02
Eu-154	32	*0 060518912*	*0 00*
Am-241	30	0 756486402	0 03
Sr-90	5	0 237605502	0 05
Pu-238	25	0.013754298	0.00
Pu-239	25	0.438762113	0 02
Pu-241	25	3.928571429	0 16
		Unity Rule (e)	*1 00*

Notes:

(a) Battelle reported analytical results of samples obtained from the filter bed area between March and September 2000.

(b) Reported data obtained from gamma spectroscopy analysis

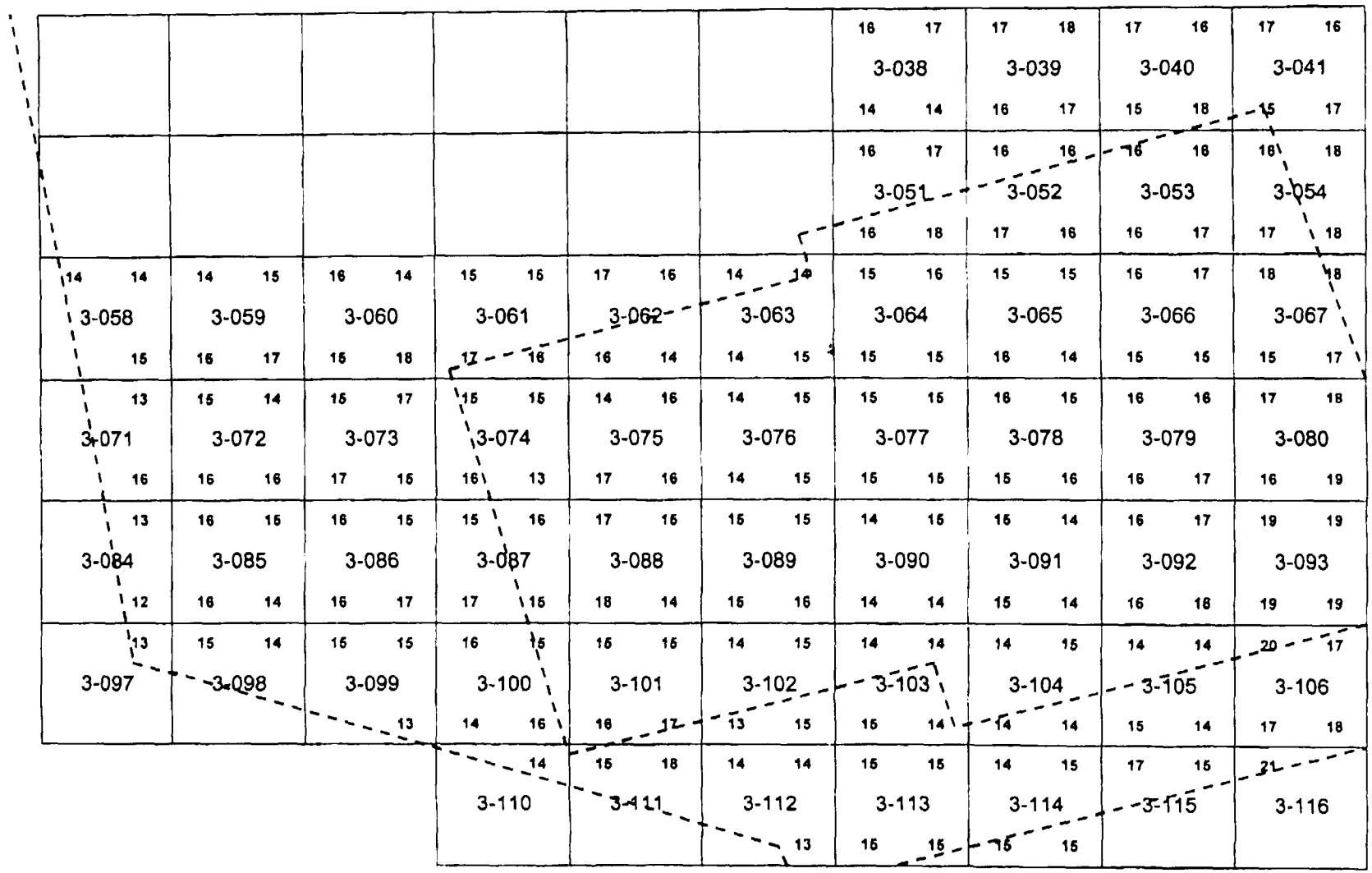
(c) Surrogate ratio calculated by dividing average Cs-137 activity by average activity of isotope of concern

(d) Pu-241 is calculated by applying a ratio to sum of Pu-238 and Pu-239 (obtained from ORIGEN 2 1 derived values, Battelle, 2003c), resulting in a Cs-137 to Pu-241 ratio of 2.8.

(e) Unity Rule applied to surrogate calculated activity resulting in modified Cs-137 screening level of 11 pCi/g

Table 3

JN-3 Foundation Area Dose Rate Survey



Results in uR/hr

Table 4

JN-3 Foundation Area Soil Result Summary

						0.05(ND) 0.06(ND) 3-038 0.05 0.10	0.04(ND) 0.05(ND) 3-039 0.03(ND) 0.04(ND)	0.04(ND) 0.05(ND) 3-040 0.04(ND) 0.05(ND)	0.26 0.1 3-041 0.11 0.14
						0.05 0.03 3-051 0.07 0.05	0.03(ND) 0.02(ND) 3-052 0.02(ND) 0.05(ND)	0.04(ND) 0.04(ND) 3-053 0.04(ND) 0.04(ND)	0.02 0.03 3-054 0.03 0.1
0.12 0.13 3-058 0.14	0.15 0.35 3-059 0.17 0.2	0.22 0.26 3-060 0.33 0.06	0.47 0.09 3-061 1.2 0.11	0.07 0.15 3-062 0.1 0.15	0.14 0.12 3-063 0.08 0.14	0.13 0.12 3-064 0.19 0.1	0.08 0.07 3-065 0.07 0.07	0.06 0.07 3-066 0.05(ND) 0.07	0.04(ND) 0.05(ND) 3-067 0.04(ND) 0.05(ND)
0.11 3-071 0.1	0.05 0.38 3-072 0.13 0.31	0.36 0.88 3-073 0.38 0.18	0.04 0.06 3-074 0.51 0.18	0.05 0.15 3-075 0.16 0.06	0.05 0.13 3-076 0.15 0.11	0.1 0.06 3-077 0.34 0.04	0.07 0.03(ND) 3-078 0.05(ND) 0.03(ND)	0.32 0.04(ND) 3-079 0.23 0.03(ND)	0.03(ND) 0.05(ND) 3-080 0.05(ND) 0.05(ND)
0.14 3-084 0.1	0.16 0.13 3-085 0.17 0.17	0.53 0.22 3-086 0.5 0.69	0.17 0.09 3-087 0.35 0.44	0.1 0.08 3-088 0.13 0.06	0.15 0.1 3-089 0.09 0.07	0.1 0.02(ND) 3-090 0.12 0.02(ND)	0.05(ND) 0.06 3-091 0.09 0.04(ND)	0.03 0.02 3-092 0.02 0.02(ND)	0.04(ND) 0.05(ND) 3-093 0.04 0.04(ND)
0.12 3-097	0.11 0.37 3-098	0.27 1.8 3-099 0.14	1.6 0.38 3-100 0.19 0.3	0.05 0.07 3-101 0.02(ND) 0.04	0.1 0.02(ND) 3-102 0.02 0.07	0.02(ND) 0.02(ND) 3-103 0.03 0.16	0.04(ND) 0.04(ND) 3-104 0.04(ND) 0.05(ND)	0.05 0.07 3-105 0.03 0.04	0.03 0.11 3-106 0.06 0.05
			0.72 3-110	0.07 0.09 3-111	0.95 0.26 3-112 0.93 0.72	0.1 0.13 3-113 0.07(ND) 0.06	0.04(ND) 0.09 3-114 0.08 0.08	0.07 0.02(ND) 3-115	0.03 3-116

Cs-137 Results in pCi/g
ND - Non-Detect

Table 5
Grid 3 - 038
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-038 NW RL05-0995 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-038 NE RL05-0996 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.03	0.15	0.27	0.06	0.21	0.37
K-40	13.00	1.60	0.37	14.00	1.80	0.30
Co-58	-0.02	0.02	0.03	-0.02	0.02	0.04
Co-60	0.00	0.02	0.04	-0.02	0.03	0.05
Zn-65	0.03	0.05	0.09	-0.05	0.07	0.10
Sb-125	0.04	0.06	0.11	0.01	0.07	0.12
I-131	0.01	0.02	0.04	0.04	0.03	0.05
Cs-134	0.01	0.02	0.04	0.01	0.03	0.04
Cs-137	0.00	0.03	0.05	0.01	0.03	0.06
Eu-152	0.00	0.06	0.10	0.01	0.07	0.12
Eu-154	-0.03	0.04	0.07	0.03	0.05	0.09
Tl-208	0.21	0.05	0.08	0.26	0.06	0.10
Bi-212	0.62	0.35	0.70	0.63	0.06	0.93
Pb-212	0.76	0.09	0.07	0.79	0.10	0.09
Bi-214	1.10	0.14	0.07	0.96	0.17	0.28
Pb-214	1.10	0.12	0.08	1.20	0.14	0.09
Ac-228	0.72	0.19	0.31	0.75	0.25	0.40
Th-234	0.50	0.71	0.86	1.40	0.83	0.64
U-235	0.03	0.17	0.08	-0.05	0.21	0.09
Am-241	-0.08	0.09	0.14	0.05	0.11	0.17
Analytical Parameter	Grid 3-038 SW RL05-0997 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-038 SE RL05-0998 Result (pCi/g)	≤2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.07	0.16	0.30	0.09	0.24	0.42
K-40	13.00	1.60	0.29	15.00	1.90	0.50
Co-58	0.00	0.02	0.04	0.01	0.03	0.05
Co-60	0.00	0.02	0.04	-0.01	0.02	0.04
Zn-65	0.00	0.06	0.09	-0.02	0.08	0.13
Sb-125	-0.01	0.05	0.10	0.05	0.08	0.14
I-131	0.00	0.02	0.03	-0.02	0.03	0.05
Cs-134	0.01	0.02	0.04	0.00	0.03	0.04
Cs-137	0.05	0.05	0.03	0.10	0.06	0.05
Eu-152	0.04	0.06	0.10	0.01	0.08	0.13
Eu-154	-0.02	0.04	0.07	-0.01	0.05	0.09
Tl-208	0.20	0.05	0.08	0.18	0.08	0.10
Bi-212	0.99	0.49	0.42	1.10	0.59	0.60
Pb-212	0.61	0.09	0.06	0.85	0.11	0.09
Bi-214	0.95	0.13	0.08	1.20	0.16	0.10
Pb-214	0.94	0.11	0.07	1.40	0.15	0.10
Ac-228	0.62	0.17	0.29	0.56	0.38	0.41
Th-234	0.44	0.68	0.79	1.80	0.91	0.73
U-235	0.10	0.15	0.07	0.24	0.21	0.93
Am-241	-0.05	0.08	0.14	0.06	0.10	0.17

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 039

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-039 NW RL05-0999			Grid 3-039 NE RL05-1000		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.10	0.16	0.32	-0.26	0.20	0.29
K-40	14.00	1.70	0.37	13.00	1.70	0.42
Co-58	-0.01	0.03	0.04	-0.02	0.03	0.04
Co-60	-0.01	0.03	0.05	0.01	0.03	0.05
Zn-65	0.01	0.06	0.10	-0.04	0.08	0.12
Sb-125	0.01	0.06	0.11	0.02	0.07	0.13
I-131	0.01	0.02	0.04	0.00	0.03	0.05
Cs-134	0.01	0.02	0.04	0.01	0.03	0.04
Cs-137	-0.01	0.03	0.04	-0.04	0.03	0.05
Eu-152	-0.01	0.07	0.11	0.00	0.08	0.13
Eu-154	-0.02	0.05	0.08	0.04	0.05	0.09
Tl-208	0.20	0.06	0.08	0.20	0.06	0.10
Bi-212	0.63	0.58	0.51	0.67	0.48	0.97
Pb-212	0.71	0.09	0.07	0.73	0.09	0.08
Bi-214	1.30	0.15	0.08	1.30	0.16	0.09
Pb-214	1.30	0.15	0.08	1.20	0.15	0.10
Ac-228	0.60	0.17	0.30	0.80	0.22	0.42
Th-234	0.43	0.78	0.94	1.50	0.80	0.71
U-235	0.00	0.18	0.09	0.14	0.20	0.10
Am-241	-0.05	0.09	0.15	0.06	0.11	0.18

Analytical Parameter	Grid 3-039 SW RL05-1001			Grid 3-039 SE RL05-1002		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.07	0.13	0.22	-0.07	0.18	0.30
K-40	13.00	1.50	0.25	13.00	1.70	0.46
Co-58	-0.02	0.02	0.02	-0.03	0.02	0.03
Co-60	-0.01	0.02	0.03	-0.03	0.03	0.04
Zn-65	0.02	0.04	0.07	-0.05	0.07	0.09
Sb-125	-0.01	0.04	0.07	0.04	0.06	0.11
I-131	-0.01	0.02	0.03	-0.01	0.02	0.11
Cs-134	0.00	0.02	0.03	0.02	0.03	0.05
Cs-137	0.00	0.02	0.03	0.00	0.02	0.04
Eu-152	-0.01	0.05	0.08	0.02	0.06	0.01
Eu-154	-0.02	0.04	0.06	0.03	0.04	0.07
Tl-208	0.13	0.04	0.06	0.24	0.06	0.10
Bi-212	0.89	0.39	0.36	1.40	0.49	0.48
Pb-212	0.54	0.07	0.06	0.63	0.08	0.06
Bi-214	0.66	0.09	0.05	0.59	0.12	0.22
Pb-214	0.72	0.09	0.06	0.72	0.11	0.08
Ac-228	0.68	0.16	0.25	0.57	0.17	0.33
Th-234	0.99	0.58	0.54	0.68	0.75	0.90
U-235	-0.05	0.13	0.05	0.02	0.17	0.07
Am-241	0.02	0.07	0.11	0.02	0.08	0.15

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 040

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-040 NW RL05-1003 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-040 NE RL05-1004 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.13	0.22	0.14	0.19	0.36
K-40	14.00	1.60	0.24	13.00	1.70	0.43
Co-58	-0.01	0.02	0.03	0.00	0.02	0.05
Co-60	-0.01	0.02	0.03	0.01	0.03	0.05
Zn-65	-0.02	0.05	0.07	-0.01	0.07	0.11
Sb-125	0.01	0.05	0.09	-0.01	0.07	0.12
I-131	0.00	0.02	0.03	0.00	0.02	0.04
Cs-134	0.00	0.02	0.03	-0.01	0.03	0.04
Cs-137	-0.03	0.02	0.03	-0.03	0.03	0.04
Eu-152	-0.03	0.05	0.08	0.03	0.07	0.12
Eu-154	0.00	0.04	0.06	0.04	0.05	0.08
Tl-208	0.16	0.04	0.03	0.14	0.06	0.09
Bi-212	0.77	0.37	0.35	0.69	0.59	0.48
Pb-212	0.57	0.08	0.06	0.63	0.09	0.08
Bi-214	0.64	0.09	0.06	0.80	0.15	0.25
Pb-214	0.73	0.09	0.07	1.00	0.12	0.09
Ac-228	0.62	0.15	0.26	0.62	0.17	0.35
Th-234	0.88	0.52	0.60	1.40	0.19	0.93
U-235	0.04	0.13	0.06	0.06	0.19	0.08
Am-241	0.02	0.08	0.12	-0.02	0.10	0.17

Analytical Parameter	Grid 3-040 SW RL05-1005 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-040 SE RL05-1006 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.12	0.15	0.29	-0.17	0.20	0.30
K-40	14.00	1.60	0.31	14.00	1.80	0.46
Co-58	-0.01	0.02	0.03	-0.01	0.02	0.04
Co-60	-0.02	0.02	0.03	0.00	0.02	0.04
Zn-65	0.05	0.06	0.01	-0.02	0.07	0.10
Sb-125	0.04	0.05	0.10	-0.04	0.06	0.10
I-131	0.00	0.02	0.03	-0.01	0.03	0.04
Cs-134	0.03	0.02	0.03	0.00	0.03	0.04
Cs-137	0.01	0.02	0.04	-0.01	0.03	0.05
Eu-152	-0.02	0.06	0.09	0.02	0.07	0.11
Eu-154	0.03	0.04	0.07	-0.03	0.05	0.08
Tl-208	0.22	0.05	0.04	0.19	0.05	0.05
Bi-212	0.63	0.46	0.48	1.00	0.45	0.50
Pb-212	0.67	0.09	0.06	0.69	0.08	0.07
Bi-214	0.82	0.11	0.06	0.81	0.16	0.26
Pb-214	0.91	0.10	0.07	0.82	0.10	0.09
Ac-228	0.66	0.18	0.29	0.59	0.22	0.35
Th-234	0.91	0.72	0.78	0.68	0.81	0.88
U-235	-0.03	0.15	0.07	0.00	0.18	0.08
Am-241	-0.04	0.08	0.13	0.06	0.09	0.16

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 041

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-041 NW RL05-1007 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-041 NE RL05-1008 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.17	0.18	0.30	-0.25	0.26	0.39
K-40	12.00	1.40	0.36	14.00	2.00	0.52
Co-58	-0.01	0.02	0.03	-0.04	0.03	0.04
Co-60	0.00	0.02	0.04	0.02	0.03	0.07
Zn-65	-0.03	0.07	0.09	0.00	0.08	0.13
Sb-125	0.05	0.06	0.11	0.02	0.08	0.15
I-131	-0.02	0.02	0.04	0.00	0.03	0.05
Cs-134	-0.01	0.02	0.03	0.00	0.03	0.05
Cs-137	0.26	0.06	0.04	0.10	0.07	0.06
Eu-152	-0.01	0.07	0.11	0.02	0.08	0.14
Eu-154	0.02	0.05	0.08	0.01	0.06	0.10
Tl-208	0.26	0.05	0.09	0.23	0.07	0.12
Bi-212	1.10	0.53	0.50	0.55	0.61	1.10
Pb-212	0.84	0.10	0.07	1.10	0.12	0.09
Bi-214	1.00	0.13	0.07	1.40	0.19	0.11
Pb-214	1.00	0.12	0.08	1.40	0.17	0.10
Ac-228	0.76	0.19	0.32	0.97	0.30	0.52
Th-234	1.10	0.84	0.87	1.30	1.10	1.10
U-235	0.05	0.17	0.08	0.30	0.23	0.10
Am-241	-0.03	0.09	0.15	-0.01	0.12	0.21
Analytical Parameter	**Grid 3-041 SW RL05-1009 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-041 SE RL05-1010 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	-0.01	0.17	0.30	0.13	0.23	0.44
K-40	12.00	1.60	0.35	14.00	1.90	0.45
Co-58	0.00	0.02	0.04	-0.03	0.03	0.04
Co-60	0.00	0.02	0.03	0.01	0.03	0.06
Zn-65	0.02	0.05	0.09	0.04	0.07	0.13
Sb-125	0.01	0.06	0.11	-0.03	0.07	0.12
I-131	-0.01	0.02	0.04	0.00	0.03	0.05
Cs-134	0.00	0.02	0.04	-0.02	0.03	0.04
Cs-137	0.11	0.05	0.04	0.14	0.09	0.05
Eu-152	-0.01	0.07	0.01	-0.04	0.08	0.12
Eu-154	-0.02	0.05	0.08	0.20	0.05	0.09
Tl-208	0.20	0.06	0.09	0.18	0.07	0.11
Bi-212	0.86	0.57	0.50	1.40	0.74	0.72
Pb-212	0.80	0.10	0.07	0.84	0.11	0.09
Bi-214	1.20	0.14	0.08	1.10	0.20	0.32
Pb-214	1.30	0.14	0.09	1.20	0.15	0.10
Ac-228	0.69	0.20	0.33	0.81	0.29	0.45
Th-234	0.68	0.79	0.97	1.20	1.00	1.10
U-235	0.05	0.18	0.09	0.04	0.22	0.10
Am-241	-0.09	0.09	0.15	-0.06	0.11	0.19

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 051

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-051 NW RL05-0983			Grid 3-051 NE RL05-0984		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.02	0.12	0.18	-0.01	0.10	0.17
K-40	15.00	1.60	0.16	14.00	1.50	0.17
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	0.01	0.01	0.02
Zn-65	0.00	0.03	0.05	-0.01	0.03	0.04
Sb-125	0.01	0.04	0.06	0.00	0.03	0.06
I-131	0.01	0.01	0.03	0.01	0.01	0.02
Cs-134	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	0.05	0.02	0.02	0.03	0.02	0.03
Eu-152	-0.01	0.05	0.07	0.02	0.05	0.06
Eu-154	0.00	0.03	0.06	0.00	0.03	0.06
Tl-208	0.22	0.03	0.02	0.21	0.03	0.02
Bi-212	0.75	0.29	0.29	0.96	0.30	0.25
Pb-212	0.77	0.07	0.05	0.72	0.07	0.04
Bi-214	0.12	0.09	0.04	1.10	0.09	0.04
Pb-214	1.20	0.10	0.05	1.20	0.09	0.05
Ac-228	0.85	0.09	0.08	0.71	0.08	0.08
Th-234	2.30	2.30	0.84	1.00	2.00	0.79
U-235	0.05	0.12	0.05	0.13	0.12	0.05
Am-241	-0.46	0.37	0.61	-0.07	0.36	0.62
Analytical Parameter	Grid 3-051 SW RL05-0985			Grid 3-051 SE RL05-0986		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.04	0.10	0.18	0.08	0.11	0.20
K-40	15.00	1.60	0.19	16.00	1.70	0.18
Co-58	-0.01	0.01	0.02	-0.02	0.01	0.02
Co-60	-0.01	0.01	0.02	-0.02	0.01	0.02
Zn-65	-0.02	0.03	0.05	0.00	0.04	0.05
Sb-125	0.01	0.04	0.06	-0.01	0.04	0.06
I-131	-0.01	0.01	0.02	0.01	0.02	0.03
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	0.07	0.02	0.03	0.05	0.02	0.02
Eu-152	-0.01	0.05	0.07	0.00	0.05	0.07
Eu-154	-0.01	0.04	0.06	-0.03	0.04	0.06
Tl-208	0.24	0.04	0.02	0.26	0.04	0.02
Bi-212	0.82	0.28	0.29	0.97	0.30	0.29
Pb-212	0.82	0.08	0.05	0.84	0.08	0.05
Bi-214	1.30	0.09	0.04	1.40	0.10	0.04
Pb-214	1.30	0.10	0.05	1.40	0.11	0.05
Ac-228	0.85	0.08	0.08	0.83	0.09	0.08
Th-234	-0.28	2.10	0.82	1.60	2.30	0.91
U-235	0.16	0.12	0.05	0.12	0.13	0.05
Am-241	-0.31	0.38	0.64	-0.31	0.40	0.67

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 052

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-052 NW RL05-0987			Grid 3-052 NE RL05-0988		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.10	0.18	-0.06	0.09	0.16
K-40	14.00	1.50	0.19	13.00	1.40	0.15
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	-0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	0.00	0.03	0.05	-0.02	0.03	0.05
Sb-125	0.02	0.03	0.06	0.00	0.03	0.05
I-131	0.00	0.01	0.02	-0.02	0.01	0.02
Cs-134	-0.01	0.01	0.02	0.01	0.01	0.02
Cs-137	0.02	0.02	0.03	0.00	0.01	0.02
Eu-152	0.03	0.05	0.07	0.00	0.05	0.06
Eu-154	-0.01	0.03	0.06	0.01	0.03	0.06
Tl-208	0.21	0.03	0.02	0.18	0.03	0.04
Bi-212	0.75	0.27	0.28	0.53	0.29	0.27
Pb-212	0.74	0.07	0.05	0.48	0.07	0.09
Bi-214	1.20	0.09	0.04	0.65	0.06	0.04
Pb-214	1.30	0.10	0.05	0.63	0.07	0.04
Ac-228	0.69	0.08	0.08	0.55	0.07	0.07
Th-234	1.40	2.10	0.86	1.80	2.00	0.75
U-235	-0.05	0.12	0.05	0.06	0.12	0.04
Am-241	-0.36	0.37	0.62	-0.19	0.35	0.59
Analytical Parameter	Grid 3-052 SW RL05-0989			Grid 3-052 SE RL05-0990		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.20	0.18	0.36	0.04	0.22	0.39
K-40	14.00	1.70	0.35	13.00	2.00	0.51
Co-58	0.00	0.02	0.04	-0.02	0.03	0.05
Co-60	-0.02	0.02	0.04	0.02	0.03	0.06
Zn-65	0.01	0.06	0.10	-0.03	0.07	0.11
Sb-125	0.04	0.06	0.11	-0.06	0.08	0.13
I-131	0.01	0.02	0.04	-0.03	0.03	0.04
Cs-134	-0.02	0.03	0.03	0.02	0.02	0.04
Cs-137	0.01	0.03	0.05	0.00	0.03	0.06
Eu-152	0.01	0.06	0.11	0.01	0.07	0.13
Eu-154	0.02	0.05	0.08	-0.02	0.05	0.09
Tl-208	0.25	0.06	0.09	0.22	0.07	0.10
Bi-212	0.30	0.39	0.72	0.81	0.46	0.97
Pb-212	0.84	0.10	0.08	0.81	0.11	0.09
Bi-214	1.10	0.13	0.07	1.10	0.16	0.10
Pb-214	1.10	0.13	0.08	1.20	0.14	0.11
Ac-228	0.74	0.14	0.15	0.89	0.17	0.04
Th-234	1.60	0.83	0.73	1.80	0.94	1.00
U-235	-0.06	0.17	0.08	-0.12	0.21	0.10
Am-241	-0.03	0.10	0.15	0.02	0.13	0.19

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 053
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-053 NW RL05-0991 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-053 NE RL05-0992 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.16	0.29	-0.10	0.18	0.30
K-40	14.00	1.60	0.23	11.00	1.40	0.34
Co-58	-0.01	0.02	0.03	-0.03	0.02	0.03
Co-60	0.01	0.02	0.04	0.00	0.03	0.05
Zn-65	0.01	0.06	0.09	-0.03	0.07	0.10
Sb-125	0.01	0.06	0.10	0.05	0.06	0.11
I-131	-0.01	0.02	0.04	0.01	0.02	0.04
Cs-134	-0.01	0.02	0.03	0.00	0.02	0.03
Cs-137	0.01	0.02	0.04	-0.01	0.02	0.04
Eu-152	-0.03	0.06	0.09	0.01	0.06	0.10
Eu-154	-0.05	0.04	0.07	0.02	0.04	0.08
Tl-208	0.22	0.05	0.08	0.16	0.04	0.03
Bi-212	1.10	0.42	0.43	0.45	0.03	0.65
Pb-212	0.74	0.09	0.07	0.54	0.07	0.06
Bi-214	1.00	0.12	0.07	0.94	0.13	0.07
Pb-214	1.00	0.11	0.08	1.00	0.12	0.09
Ac-228	0.86	0.20	0.32	0.44	0.16	0.28
Th-234	0.12	0.67	0.85	0.79	0.74	0.81
U-235	0.11	0.16	0.07	-0.03	0.16	0.07
Am-241	-0.01	0.08	0.14	-0.02	0.08	0.14
Analytical Parameter	**Grid 3-053 SW RL05-0993 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-053 SE RL05-0994 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	0.00	0.15	0.27	0.22	0.20	0.38
K-40	13.00	1.60	0.27	12.00	1.60	0.42
Co-58	-0.01	0.02	0.03	-0.02	0.02	0.03
Co-60	-0.01	0.02	0.03	-0.01	0.02	0.04
Zn-65	0.01	0.06	0.09	-0.04	0.07	0.10
Sb-125	0.01	0.05	0.10	0.06	0.06	0.12
I-131	0.01	0.02	0.03	0.01	0.02	0.04
Cs-134	0.01	0.02	0.03	0.01	0.02	0.04
Cs-137	0.01	0.02	0.04	0.00	0.03	0.05
Eu-152	-0.04	0.06	0.09	-0.01	0.07	0.11
Eu-154	0.02	0.04	0.07	0.02	0.05	0.08
Tl-208	0.20	0.05	0.08	0.20	0.05	0.09
Bi-212	0.60	0.37	0.40	0.64	0.38	0.79
Pb-212	0.75	0.09	0.07	0.65	0.08	0.07
Bi-214	0.96	0.12	0.07	0.81	0.12	0.08
Pb-214	0.95	0.11	0.07	0.89	0.11	0.08
Ac-228	0.69	0.12	0.12	0.59	0.14	0.18
Th-234	1.30	0.69	0.65	0.73	0.78	0.87
U-235	0.15	0.15	0.07	-0.02	0.17	0.07
Am-241	0.05	0.09	0.14	0.05	0.09	0.16

N/A - Not Applicable, gnd location is not included within the scope of this report.

Table 5

Grid 3 - 054

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-054 NW RL05-0975 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-054 NE RL05-0976 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.05	0.09	0.14	-0.10	0.10	0.16
K-40	12.00	1.30	0.16	15.00	1.60	0.17
Co-58	-0.02	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.01	0.01	0.02	0.00	0.03	0.05
Sb-125	0.00	0.03	0.05	0.01	0.04	0.06
I-131	0.00	0.01	0.02	0.01	0.01	0.03
Cs-134	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.00	0.01	0.02	0.03	0.01	0.03
Eu-152	0.02	0.04	0.06	0.01	0.05	0.07
Eu-154	0.00	0.03	0.05	0.00	0.03	0.06
Tl-208	0.14	0.02	0.02	0.21	0.04	0.02
Bi-212	0.54	0.23	0.24	0.87	0.31	0.28
Pb-212	0.52	0.05	0.04	0.69	0.07	0.05
Bi-214	1.10	0.08	0.04	1.10	0.09	0.04
Pb-214	1.10	0.09	0.04	1.20	0.10	0.05
Ac-228	0.51	0.07	0.07	0.74	0.08	0.08
Th-234	-0.03	1.80	0.73	2.20	2.20	0.83
U-235	0.03	0.11	0.04	0.09	0.13	0.05
Am-241	-0.07	0.32	0.55	-0.34	0.37	0.61

Analytical Parameter	Grid 3-054 SW RL05-0977 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-054 SE RL05-0978 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.11	0.18	0.00	0.10	0.17
K-40	14.00	1.60	0.18	14.00	1.60	0.18
Co-58	-0.01	0.01	0.02	-0.02	0.01	0.02
Co-60	0.00	0.01	0.02	-0.02	0.01	0.02
Zn-65	-0.02	0.04	0.05	0.01	0.03	0.05
Sb-125	0.00	0.04	0.06	0.03	0.04	0.06
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.03	0.02	0.02	0.10	0.02	0.02
Eu-152	0.02	0.05	0.07	0.02	0.05	0.07
Eu-154	0.02	0.04	0.06	0.01	0.04	0.06
Tl-208	0.21	0.03	0.02	0.22	0.04	0.02
Bi-212	0.90	0.29	0.29	0.60	0.36	0.30
Pb-212	0.79	0.07	0.05	0.75	0.07	0.05
Bi-214	1.30	0.10	0.04	1.20	0.09	0.04
Pb-214	1.40	0.10	0.05	1.20	0.10	0.05
Ac-228	0.71	0.09	0.09	0.80	0.08	0.08
Th-234	0.04	2.20	0.89	1.20	2.10	0.81
U-235	0.03	0.13	0.05	0.11	0.12	0.05
Am-241	-0.07	0.38	0.65	0.03	0.37	0.64

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 058

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-058 NW RL05-0534-1102			Grid 3-058 NE RL05-0535-1103		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.06	0.21	0.38	-0.14	0.20	0.33
K-40	12.52	1.63	0.35	11.49	1.53	0.29
Co-58	-0.01	0.02	0.04	0.00	0.02	0.04
Co-60	0.00	0.02	0.05	0.00	0.02	0.04
Zn-65	-0.02	0.06	0.08	0.00	0.06	0.10
Sb-125	-0.01	0.07	0.13	0.04	0.06	0.11
I-131	0.00	0.04	0.07	0.01	0.04	0.08
Cs-134	0.01	0.02	0.04	-0.01	0.02	0.03
Cs-137	0.12	0.05	0.05	0.13	0.05	0.04
Eu-152	-0.02	0.09	0.14	0.07	0.09	0.11
Eu-154	0.00	0.07	0.11	0.01	0.06	0.11
Tl-208	0.26	0.05	0.05	0.19	0.05	0.08
Bi-212	0.25	0.40	0.74	0.70	0.50	0.56
Pb-212	0.68	0.11	0.18	0.72	0.14	0.08
Bi-214	1.09	0.13	0.09	0.85	0.12	0.08
Pb-214	1.13	0.14	0.10	1.08	0.12	0.10
Ac-228	0.56	0.21	0.34	0.83	0.13	0.17
Th-234	2.75	4.17	1.60	2.54	3.82	1.49
U-235	0.13	0.22	0.09	0.02	0.23	0.09
Am-241	-0.85	0.73	1.19	-0.46	0.69	1.16
Analytical Parameter	Grid 3-058 SW			Grid 3-058 SE RL05-0536-1104		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	0.08	0.21	0.39
K-40	N/A	N/A	N/A	13.74	1.75	0.37
Co-58	N/A	N/A	N/A	-0.01	0.02	0.04
Co-60	N/A	N/A	N/A	-0.01	0.02	0.04
Zn-65	N/A	N/A	N/A	-0.05	0.06	0.08
Sb-125	N/A	N/A	N/A	-0.01	0.07	0.12
I-131	N/A	N/A	N/A	0.01	0.05	0.08
Cs-134	N/A	N/A	N/A	-0.01	0.03	0.04
Cs-137	N/A	N/A	N/A	0.14	0.05	0.05
Eu-152	N/A	N/A	N/A	0.12	0.09	0.15
Eu-154	N/A	N/A	N/A	0.07	0.06	0.11
Tl-208	N/A	N/A	N/A	0.23	0.05	0.09
Bi-212	N/A	N/A	N/A	1.07	0.45	0.49
Pb-212	N/A	N/A	N/A	0.66	0.10	0.09
Bi-214	N/A	N/A	N/A	1.15	0.14	0.08
Pb-214	N/A	N/A	N/A	1.20	0.13	0.10
Ac-228	N/A	N/A	N/A	0.85	0.12	0.14
Th-234	N/A	N/A	N/A	0.58	3.78	1.56
U-235	N/A	N/A	N/A	-0.20	0.23	0.09
Am-241	N/A	N/A	N/A	-0.40	0.65	1.10

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 059

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-059 NW RL05-0537-1105			Grid 3-059 NE RL05-0538-1106		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.19	0.34	0.04	0.27	0.48
K-40	11.51	1.48	0.32	12.94	1.80	0.49
Co-58	-0.01	0.02	0.04	0.00	0.03	0.05
Co-60	0.01	0.02	0.04	0.00	0.03	0.05
Zn-65	-0.04	0.06	0.08	0.03	0.09	0.15
Sb-125	-0.02	0.06	0.11	-0.04	0.09	0.14
I-131	0.01	0.04	0.07	0.00	0.05	0.08
Cs-134	-0.01	0.02	0.03	-0.01	0.03	0.04
Cs-137	0.15	0.05	0.04	0.35	0.10	0.05
Eu-152	-0.02	0.09	0.12	-0.02	0.08	0.14
Eu-154	0.02	0.06	0.11	0.00	0.06	0.10
Tl-208	0.23	0.05	0.04	0.23	0.07	0.12
Bi-212	0.90	0.44	0.50	1.37	0.78	0.75
Pb-212	0.73	0.11	0.17	0.75	0.10	0.10
Bi-214	1.33	0.13	0.07	1.33	0.19	0.10
Pb-214	1.34	0.14	0.10	1.26	0.16	0.12
Ac-228	0.68	0.13	0.12	0.76	0.29	0.45
Th-234	1.03	3.86	1.53	1.42	1.13	1.19
U-235	0.11	0.22	0.09	0.16	0.22	0.10
Am-241	0.02	0.67	1.18	-0.03	0.12	0.20

Analytical Parameter	Grid 3-059 SW RL05-0539-1107			Grid 3-059 SE RL05-0540-1108		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.26	0.21	0.41	-0.12	0.24	0.40
K-40	13.05	1.60	0.40	11.78	1.75	0.68
Co-58	0.01	0.02	0.04	-0.01	0.03	0.05
Co-60	0.01	0.02	0.04	0.01	0.03	0.07
Zn-65	0.01	0.06	0.09	0.00	0.09	0.14
Sb-125	0.02	0.06	0.11	-0.03	0.08	0.14
I-131	0.04	0.03	0.07	-0.02	0.05	0.08
Cs-134	0.01	0.02	0.04	-0.02	0.03	0.05
Cs-137	0.16	0.05	0.04	0.20	0.07	0.06
Eu-152	-0.03	0.07	0.11	0.01	0.08	0.14
Eu-154	-0.03	0.05	0.08	-0.04	0.06	0.10
Tl-208	0.19	0.06	0.08	0.21	0.08	0.12
Bi-212	1.09	0.62	0.52	0.69	0.44	0.93
Pb-212	0.92	0.11	0.08	0.82	0.11	0.10
Bi-214	1.34	0.15	0.08	1.46	0.19	0.11
Pb-214	1.31	0.13	0.08	1.55	0.17	0.11
Ac-228	0.77	0.21	0.34	0.57	0.26	0.43
Th-234	0.54	0.79	0.95	0.75	1.00	1.11
U-235	0.32	0.18	0.08	0.12	0.23	0.10
Am-241	-0.08	0.10	0.16	-0.04	0.12	0.19

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 060

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-060 NW RL05-0541-1109 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-060 NE RL05-0542-1110 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.01	0.18	0.33	0.10	0.23	0.42
K-40	13.32	1.66	0.31	12.13	1.64	0.43
Co-58	-0.02	0.02	0.04	-0.01	0.02	0.04
Co-60	-0.01	0.02	0.04	0.00	0.02	0.04
Zn-65	-0.05	0.06	0.08	0.01	0.07	0.11
Sb-125	0.04	0.06	0.11	0.01	0.07	0.12
I-131	0.02	0.04	0.06	-0.02	0.04	0.06
Cs-134	0.02	0.02	0.04	0.01	0.03	0.04
Cs-137	0.22	0.05	0.05	0.26	0.07	0.05
Eu-152	-0.02	0.06	0.10	-0.03	0.07	0.11
Eu-154	-0.02	0.05	0.08	0.03	0.05	0.08
Tl-208	0.00	0.05	0.04	0.24	0.06	0.10
Bi-212	0.70	0.47	0.49	0.83	0.48	0.60
Pb-212	0.78	0.09	0.07	0.65	0.09	0.08
Bi-214	1.30	0.15	0.08	1.17	0.14	0.05
Pb-214	1.51	0.15	0.08	1.21	0.14	0.09
Ac-228	0.55	0.17	0.30	0.59	0.26	0.36
Th-234	0.72	0.81	0.92	0.37	0.80	0.92
U-235	0.06	0.17	0.08	0.08	0.19	0.09
Am-241	0.03	0.10	0.16	-0.01	0.10	0.16
Analytical Parameter	Grid 3-060 SW RL05-0543-1111 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-060 SE RL05-0544-1112 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.10	0.20	0.35	-0.20	0.17	0.28
K-40	13.77	1.66	0.29	10.78	1.34	0.20
Co-58	0.00	0.02	0.04	0.00	0.02	0.04
Co-60	0.01	0.02	0.05	0.01	0.02	0.04
Zn-65	0.02	0.06	0.10	0.00	0.06	0.09
Sb-125	0.06	0.06	0.12	-0.03	0.05	0.09
I-131	-0.01	0.04	0.06	0.02	0.03	0.06
Cs-134	0.02	0.02	0.04	0.01	0.02	0.03
Cs-137	0.33	0.08	0.04	0.06	0.04	0.03
Eu-152	0.03	0.07	0.11	0.02	0.06	0.10
Eu-154	-0.01	0.05	0.08	-0.01	0.04	0.07
Tl-208	0.25	0.05	0.04	0.17	0.05	0.08
Bi-212	0.71	0.34	0.71	0.53	0.32	0.64
Pb-212	0.75	0.09	0.08	0.69	0.09	0.07
Bi-214	1.41	0.15	0.09	1.31	0.14	0.07
Pb-214	1.31	0.14	0.09	1.26	0.13	0.08
Ac-228	0.61	0.18	0.31	0.53	0.19	0.29
Th-234	0.24	0.77	0.92	1.27	1.10	0.83
U-235	-0.03	0.17	0.08	0.08	0.17	0.07
Am-241	-0.08	0.10	0.16	0.05	0.09	0.14

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 061

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-061 NW RL05-0545-1113			Grid 3-061 NE RL05-0546-1114		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.11	0.23	0.37	-0.01	0.17	0.30
K-40	12.74	1.81	0.48	11.81	1.45	0.34
Co-58	-0.02	0.03	0.04	-0.01	0.02	0.03
Co-60	0.00	0.04	0.07	0.01	0.02	0.04
Zn-65	0.03	0.07	0.13	0.01	0.05	0.09
Sb-125	-0.02	0.07	0.12	0.02	0.05	0.10
I-131	-0.01	0.04	0.07	0.02	0.03	0.06
Cs-134	-0.02	0.03	0.04	-0.01	0.02	0.03
Cs-137	0.47	0.09	0.06	0.09	0.04	0.04
Eu-152	0.00	0.08	0.13	0.01	0.06	0.10
Eu-154	0.05	0.05	0.10	-0.04	0.04	0.07
Tl-208	0.16	0.06	0.10	0.18	0.05	0.03
Bi-212	0.81	0.42	0.73	0.53	0.32	0.63
Pb-212	0.76	0.10	0.09	0.63	0.08	0.07
Bi-214	1.12	0.15	0.07	1.27	0.14	0.07
Pb-214	1.05	0.14	0.10	1.20	0.12	0.07
Ac-228	0.52	0.21	0.38	0.68	0.12	0.12
Th-234	0.46	0.86	0.98	0.88	0.56	0.66
U-235	0.02	0.21	0.09	0.23	0.16	0.07
Am-241	0.07	0.11	0.19	0.08	0.09	0.14
Analytical Parameter	Grid 3-061 SW RL05-0547-1115			Grid 3-061 SE RL05-0548-1116		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.16	0.25	0.46	0.00	0.17	0.31
K-40	9.32	1.35	0.47	7.41	1.14	0.42
Co-58	-0.01	0.02	0.04	-0.01	0.03	0.04
Co-60	0.00	0.02	0.05	0.02	0.03	0.05
Zn-65	-0.05	0.07	0.10	-0.01	0.07	0.11
Sb-125	0.06	0.08	0.14	0.00	0.07	0.12
I-131	-0.01	0.04	0.07	0.01	0.03	0.06
Cs-134	0.00	0.03	0.04	0.00	0.02	0.04
Cs-137	1.15	0.17	0.05	0.11	0.05	0.04
Eu-152	0.04	0.07	0.12	-0.02	0.06	0.10
Eu-154	-0.02	0.05	0.08	0.01	0.05	0.08
Tl-208	0.19	0.06	0.09	0.11	0.05	0.08
Bi-212	0.69	0.39	0.59	0.34	0.34	0.70
Pb-212	0.59	0.08	0.08	0.32	0.08	0.13
Bi-214	1.02	0.14	0.09	0.93	0.13	0.09
Pb-214	1.09	0.13	0.09	0.96	0.12	0.08
Ac-228	0.47	0.15	0.32	0.42	0.16	0.31
Th-234	1.11	0.72	0.76	1.11	0.62	0.68
U-235	0.10	0.19	0.09	-0.01	0.17	0.08
Am-241	0.02	0.10	0.15	-0.02	0.10	0.15

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 062

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-062 NW RL05-0549-1117			Grid 3-062 NE RL05-0550-1118		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.00	0.33	-0.22	0.22	0.33
K-40	0.12	1.61	0.48	12.35	1.64	0.42
Co-58	-0.01	0.03	0.04	-0.01	0.02	0.04
Co-60	0.01	0.03	0.05	0.01	0.03	0.06
Zn-65	0.03	0.07	0.13	0.02	0.06	0.11
Sb-125	-0.02	0.07	0.01	0.00	0.06	0.11
I-131	0.00	0.02	0.04	-0.01	0.04	0.07
Cs-134	0.02	0.02	0.05	0.02	0.02	0.04
Cs-137	0.07	0.05	0.05	0.14	0.05	0.05
Eu-152	-0.06	0.07	0.11	-0.01	0.07	0.12
Eu-154	0.01	0.05	0.08	0.04	0.05	0.08
Tl-208	0.18	0.06	0.09	0.19	0.05	0.09
Bi-212	1.10	0.60	0.63	0.67	0.54	0.70
Pb-212	0.68	0.09	0.08	0.58	0.08	0.08
Bi-214	1.23	0.15	0.09	1.23	0.15	0.08
Pb-214	1.20	0.14	0.09	1.19	0.13	0.10
Ac-228	0.46	0.29	0.37	0.64	0.20	0.36
Th-234	1.32	0.81	0.81	0.30	0.74	0.92
U-235	0.16	0.21	0.09	0.14	0.18	0.08
Am-241	0.03	0.11	0.17	0.02	0.10	0.17
Analytical Parameter	Grid 3-062 SW RL05-0551-1119			Grid 3-062 SE RL05-0552-1120		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.22	0.37	-0.13	0.20	0.32
K-40	11.50	1.54	0.39	10.73	1.48	0.44
Co-58	-0.01	0.02	0.04	0.01	0.03	0.05
Co-60	0.00	0.02	0.04	0.02	0.03	0.05
Zn-65	0.01	0.06	0.10	-0.02	0.07	0.11
Sb-125	0.00	0.07	0.11	-0.03	0.06	0.11
I-131	-0.02	0.04	0.06	-0.01	0.03	0.06
Cs-134	-0.01	0.02	0.04	0.02	0.02	0.04
Cs-137	0.10	0.04	0.05	0.15	0.06	0.04
Eu-152	-0.01	0.07	0.11	0.00	0.07	0.11
Eu-154	0.05	0.05	0.08	-0.02	0.05	0.08
Tl-208	0.14	0.05	0.08	0.23	0.05	0.10
Bi-212	0.89	0.38	0.51	0.53	0.38	0.79
Pb-212	0.62	0.08	0.07	0.59	0.08	0.08
Bi-214	1.20	0.14	0.05	1.14	0.15	0.09
Pb-214	1.11	0.12	0.08	1.12	0.14	0.10
Ac-228	0.64	0.16	0.31	0.53	0.26	0.35
Th-234	0.39	0.71	0.85	0.48	0.75	0.93
U-235	0.11	0.19	0.08	0.09	0.19	0.08
Am-241	-0.02	0.09	0.15	0.06	0.10	0.17

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 063

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-063 NW RL05-0881 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-063 NE RL05-0882 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.14	0.19	0.36	-0.30	0.17	0.24
K-40	13.20	1.70	0.33	1.30	1.70	0.30
Co-58	0.01	0.02	0.04	-0.01	0.02	0.04
Co-60	-0.02	0.02	0.04	0.03	0.02	0.05
Zn-65	-0.02	0.07	0.10	-0.02	0.06	0.09
Sb-125	0.02	0.06	0.12	0.03	0.06	0.12
I-131	-0.01	0.02	0.04	0.00	0.02	0.04
Cs-134	-0.02	0.03	0.03	-0.01	0.02	0.03
Cs-137	0.14	0.04	0.05	0.12	0.04	0.04
Eu-152	0.00	0.09	0.12	0.02	0.08	0.12
Eu-154	0.00	0.06	0.11	0.00	0.06	0.10
Tl-208	0.21	0.05	0.09	0.20	0.05	0.04
Bi-212	0.91	0.42	0.53	0.46	0.35	0.68
Pb-212	0.65	0.11	0.17	0.52	0.10	0.16
Bi-214	1.03	0.12	0.07	1.07	0.13	0.07
Pb-214	1.20	0.13	0.09	1.08	0.12	0.09
Ac-228	0.54	0.19	0.30	0.60	0.21	0.32
Th-234	1.70	4.10	1.50	0.58	3.50	1.50
U-235	0.05	0.22	0.09	-0.10	0.22	0.09
Am-241	-0.55	0.72	1.20	-0.21	0.67	1.20

Analytical Parameter	Grid 3-063 SW RL05-0883 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-063 SE RL05-0884 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.07	0.16	0.27	0.06	0.16	0.29
K-40	12.50	1.60	0.32	12.80	1.60	0.29
Co-58	0.00	0.02	0.03	0.00	0.02	0.03
Co-60	-0.01	0.02	0.04	-0.01	0.03	0.04
Zn-65	0.03	0.05	0.09	-0.03	0.05	0.07
Sb-125	0.42	0.06	0.11	0.04	0.07	0.13
I-131	-0.02	0.02	0.04	-0.01	0.02	0.04
Cs-134	0.01	0.02	0.03	0.00	0.02	0.03
Cs-137	0.08	0.04	0.04	0.14	0.04	0.04
Eu-152	0.02	0.08	0.12	-0.04	0.08	0.12
Eu-154	0.00	0.06	0.10	0.04	0.06	0.10
Tl-208	0.20	0.05	0.08	0.16	0.05	0.08
Bi-212	0.53	0.42	0.54	0.45	0.41	0.55
Pb-212	0.71	0.10	0.08	0.60	0.09	0.08
Bi-214	1.00	0.12	0.07	1.00	0.13	0.07
Pb-214	1.10	0.13	0.09	1.00	0.13	0.09
Ac-228	0.43	0.15	0.27	0.66	0.12	0.15
Th-234	2.10	3.80	1.50	-1.10	3.40	1.40
U-235	-0.05	0.22	0.09	0.11	0.20	0.09
Am-241	-0.18	0.66	1.10	-0.13	0.63	1.10

N/A - Not Applicable, grid location is not included within the scope of this report

Table 5
Grid 3 - 064
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-064 NW RL05-0885			Grid 3-064 NE RL05-0886		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.09	0.19	0.33	0.09	0.19	0.35
K-40	12.80	1.60	0.28	1.40	1.70	0.34
Co-58	-0.02	0.02	0.03	-0.01	0.02	0.04
Co-60	0.02	0.02	0.05	0.03	0.02	0.04
Zn-65	-0.03	0.07	0.10	0.01	0.06	0.10
Sb-125	0.02	0.06	0.12	-0.01	0.06	0.10
I-131	0.00	0.02	0.04	0.09	0.02	0.04
Cs-134	0.00	0.02	0.03	0.03	0.02	0.04
Cs-137	0.13	0.06	0.04	0.12	0.04	0.04
Eu-152	0.02	0.09	0.12	0.02	0.09	0.13
Eu-154	0.00	0.06	0.11	-0.01	0.06	0.10
Tl-208	0.18	0.05	0.08	0.24	0.05	0.04
Bi-212	0.90	0.53	0.56	0.34	0.39	0.73
Pb-212	0.59	0.10	0.09	0.58	0.10	0.16
Bi-214	1.10	0.12	0.07	0.92	0.12	0.09
Pb-214	1.10	0.13	0.08	1.10	0.13	0.09
Ac-228	0.67	0.17	0.31	0.68	0.18	0.31
Th-234	-3.60	3.90	1.50	3.00	3.70	1.50
U-235	0.10	0.23	0.09	0.11	0.21	0.09
Am-241	0.65	0.70	1.30	-0.42	0.67	1.10
Analytical Parameter	Grid 3-064 SW RL05-0887			Grid 3-064 SE RL05-0888		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.02	0.17	0.32	-0.15	0.18	0.29
K-40	13.20	1.70	0.22	13.00	1.70	0.36
Co-58	-0.03	0.02	0.03	-0.01	0.02	0.03
Co-60	0.00	0.02	0.04	0.00	0.02	0.05
Zn-65	0.00	0.06	0.09	0.04	0.06	0.10
Sb-125	0.04	0.07	0.13	0.06	0.06	0.11
I-131	0.01	0.02	0.04	-0.02	0.02	0.04
Cs-134	0.02	0.03	0.04	-0.01	0.02	0.03
Cs-137	0.19	0.06	0.04	0.10	0.04	0.04
Eu-152	0.00	0.09	0.13	0.03	0.08	0.12
Eu-154	0.00	0.06	0.25	-0.02	0.06	0.10
Tl-208	0.20	0.05	0.09	0.16	0.05	0.08
Bi-212	0.75	0.45	0.57	0.86	0.40	0.48
Pb-212	0.61	0.10	0.17	0.48	0.09	0.16
Bi-214	0.98	0.12	0.98	0.99	0.12	0.08
Pb-214	1.20	0.13	0.09	0.89	0.11	0.09
Ac-228	0.68	0.14	0.17	0.78	0.19	0.31
Th-234	1.80	3.70	1.60	3.50	3.60	1.50
U-235	0.06	0.23	0.09	0.10	0.22	0.09
Am-241	-0.62	0.67	1.10	-0.62	0.62	1.00

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 065
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-065 NW RL05-0932			Grid 3-065 NE RL05-0933		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.05	0.19	0.34	-0.04	0.22	0.37
K-40	15.00	1.90	0.35	15.00	1.90	0.44
Co-58	-0.01	0.02	0.04	-0.02	0.02	0.04
Co-60	-0.02	0.02	0.03	0.02	0.03	0.05
Zn-65	0.00	0.06	0.09	-0.02	0.07	0.10
Sb-125	0.02	0.07	0.12	-0.01	0.07	0.12
I-131	-0.01	0.02	0.04	0.00	0.03	0.05
Cs-134	0.02	0.02	0.04	0.00	0.03	0.04
Cs-137	0.08	0.04	0.05	0.07	0.03	0.04
Eu-152	-0.03	0.09	0.13	0.00	0.10	0.14
Eu-154	-0.01	0.07	0.11	-0.02	0.07	0.12
Tl-208	0.28	0.05	0.04	0.23	0.05	0.05
Bi-212	0.71	0.47	0.54	0.58	0.41	0.80
Pb-212	0.69	0.11	0.18	0.78	0.12	0.09
Bi-214	1.10	0.13	0.08	1.30	0.14	0.08
Pb-214	1.30	0.14	0.10	1.40	0.15	0.11
Ac-228	0.72	0.14	0.15	0.85	0.13	0.03
Th-234	-0.52	3.90	1.50	3.50	4.40	1.60
U-235	-0.03	0.23	0.10	0.16	0.26	0.10
Am-241	-0.29	0.69	1.20	-0.24	0.77	1.30
Analytical Parameter	Grid 3-065 SW RL05-0934			Grid 3-065 SE RL05-0935		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.03	0.09	0.15	0.08	0.10	0.17
K-40	14.00	1.50	0.19	14.00	1.60	0.16
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.01	0.03	0.04	-0.03	0.04	0.05
Sb-125	0.00	0.03	0.05	-0.01	0.03	0.06
I-131	0.01	0.01	0.02	0.01	0.01	0.02
Cs-134	-0.01	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.07	0.02	0.02	0.07	0.02	0.02
Eu-152	-0.02	0.04	0.06	0.01	0.05	0.06
Eu-154	-0.01	0.03	0.05	0.01	0.03	0.06
Tl-208	0.19	0.03	0.02	0.24	0.04	0.02
Bi-212	0.56	0.26	0.25	0.99	0.33	0.27
Pb-212	0.69	0.07	0.04	0.74	0.07	0.04
Bi-214	1.10	0.08	0.04	1.20	0.09	0.04
Pb-214	1.10	0.09	0.04	1.30	0.10	0.05
Ac-228	0.74	0.07	0.08	0.76	0.08	0.07
Th-234	1.10	1.90	0.75	-0.58	2.00	0.80
U-235	0.05	0.06	0.11	0.09	0.07	0.05
Am-241	-0.16	0.34	0.58	0.00	0.37	0.63

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 066
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-066 NW RL05-1093 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-066 NE RL05-1094 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.07	0.19	0.34	-0.04	0.11	0.19
K-40	7.60	1.20	0.33	6.00	0.78	0.21
Co-58	-0.02	0.02	0.03	0.00	0.01	0.02
Co-60	0.01	0.02	0.04	0.01	0.02	0.03
Zn-65	0.01	0.05	0.09	0.01	0.03	0.05
Sb-125	0.04	0.05	0.09	0.00	0.04	0.06
I-131	0.02	0.02	0.04	-0.01	0.02	0.03
Cs-134	0.00	0.02	0.03	0.00	0.01	0.02
Cs-137	0.06	0.03	0.04	0.07	0.04	0.02
Eu-152	0.04	0.05	0.10	0.06	0.04	0.07
Eu-154	-0.02	0.04	0.06	-0.03	0.03	0.05
Tl-208	0.10	0.04	0.06	0.08	0.03	0.04
Bi-212	0.62	0.31	0.60	0.24	0.25	0.42
Pb-212	0.37	0.07	0.12	0.31	0.05	0.05
Bi-214	0.81	0.12	0.08	0.89	0.09	0.05
Pb-214	0.82	0.53	0.69	0.83	0.10	0.05
Ac-228	0.34	0.13	0.25	0.38	0.11	0.18
Th-234	0.94	0.53	0.69	0.37	0.43	0.53
U-235	0.06	0.15	0.07	-0.11	0.11	0.05
Am-241	0.04	0.07	0.12	-0.06	0.05	0.08

Analytical Parameter	Grid 3-066 SW RL05-1095 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-066 SE RL05-1096 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.10	0.18	0.33	0.00	0.11	0.19
K-40	9.70	1.40	0.37	6.60	0.86	0.26
Co-58	-0.02	0.02	0.04	0.00	0.01	0.02
Co-60	0.01	0.02	0.04	0.01	0.01	0.03
Zn-65	0.00	0.06	0.09	0.02	0.04	0.06
Sb-125	0.05	0.05	0.10	-0.02	0.04	0.07
I-131	0.01	0.02	0.04	0.00	0.02	0.03
Cs-134	-0.01	0.02	0.03	-0.01	0.01	0.02
Cs-137	0.02	0.03	0.05	0.07	0.03	0.03
Eu-152	0.01	0.06	0.09	-0.01	0.04	0.07
Eu-154	-0.04	0.04	0.07	0.01	0.03	0.05
Tl-208	0.12	0.05	0.07	0.12	0.03	0.05
Bi-212	0.15	0.31	0.60	-0.16	0.24	0.05
Pb-212	0.53	0.07	0.07	0.27	0.03	0.03
Bi-214	0.81	0.11	0.07	0.70	0.09	0.05
Pb-214	0.87	0.10	0.08	0.75	0.09	0.05
Ac-228	0.32	0.20	0.30	0.27	0.12	0.19
Th-234	0.62	0.69	0.79	0.40	0.43	0.53
U-235	0.03	0.16	0.07	0.04	0.11	0.05
Am-241	-0.04	0.08	0.13	-0.02	0.05	0.08

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 067
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-067 NW RL05-0959 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-067 NE RL05-0960 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.04	0.16	0.29	-0.20	0.17	0.27
K-40	12.00	1.50	0.33	13.00	1.70	0.28
Co-58	0.00	0.02	0.04	0.00	0.02	0.04
Co-60	0.00	0.02	0.04	0.00	0.02	0.04
Zn-65	0.07	0.06	0.10	0.04	0.06	0.10
Sb-125	-0.01	0.06	0.10	-0.03	0.06	0.11
I-131	0.01	0.03	0.05	0.00	0.03	0.05
Cs-134	-0.01	0.03	0.04	0.01	0.03	0.04
Cs-137	0.01	0.02	0.04	0.01	0.03	0.05
Eu-152	-0.01	0.08	0.11	-0.04	0.09	0.12
Eu-154	-0.03	0.06	0.10	0.00	0.06	0.11
Tl-208	0.13	0.05	0.07	0.24	0.05	0.04
Bi-212	0.91	0.53	0.41	0.84	0.40	0.62
Pb-212	0.53	0.08	0.08	0.74	0.11	0.08
Bi-214	1.00	0.12	0.08	1.10	0.13	0.08
Pb-214	1.00	0.11	0.09	1.30	0.14	0.09
Ac-228	0.49	0.16	0.27	0.81	0.20	0.33
Th-234	-0.04	3.20	1.30	2.00	3.90	1.50
U-235	0.13	0.21	0.08	0.25	0.23	0.10
Am-241	-0.14	0.60	1.00	-0.43	0.69	1.20

Analytical Parameter	Grid 3-067 SW RL05-0961 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-067 SE RL05-0962 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.06	0.18	0.31	0.06	0.19	0.34
K-40	12.00	1.60	0.30	13.00	1.70	0.35
Co-58	-0.03	0.02	0.03	-0.03	0.02	0.04
Co-60	0.00	0.02	0.04	-0.01	0.02	0.04
Zn-65	-0.05	0.06	0.08	-0.02	0.07	0.10
Sb-125	0.00	0.06	0.10	0.03	0.07	0.13
I-131	-0.01	0.03	0.04	-0.01	0.03	0.04
Cs-134	0.01	0.02	0.03	0.00	0.02	0.04
Cs-137	-0.02	0.02	0.04	0.00	0.03	0.05
Eu-152	-0.01	0.08	0.12	-0.05	0.09	0.13
Eu-154	0.03	0.06	0.10	-0.05	0.07	0.11
Tl-208	0.17	0.05	0.08	0.18	0.06	0.04
Bi-212	0.61	0.38	0.51	0.81	0.38	0.77
Pb-212	0.46	0.08	0.09	0.78	0.11	0.09
Bi-214	1.10	0.12	0.07	1.20	0.14	0.07
Pb-214	1.20	0.13	0.09	1.40	0.14	0.09
Ac-228	0.58	0.10	0.14	0.82	0.24	0.35
Th-234	1.60	3.60	1.40	0.62	3.70	1.50
U-235	0.02	0.21	0.08	-0.07	0.25	0.10
Am-241	0.10	0.64	1.10	-0.22	0.69	1.20

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 071
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-071 NW Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-071 NE RL05-0516-1084 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	-0.06	0.10	0.17
K-40	N/A	N/A	N/A	13.21	1.45	0.18
Co-58	N/A	N/A	N/A	-0.01	0.01	0.02
Co-60	N/A	N/A	N/A	0.00	0.01	0.02
Zn-65	N/A	N/A	N/A	-0.01	0.03	0.04
Sb-125	N/A	N/A	N/A	0.01	0.03	0.06
I-131	N/A	N/A	N/A	0.01	0.02	0.03
Cs-134	N/A	N/A	N/A	0.00	0.01	0.02
Cs-137	N/A	N/A	N/A	0.11	0.03	0.02
Eu-152	N/A	N/A	N/A	0.02	0.05	0.07
Eu-154	N/A	N/A	N/A	0.01	0.03	0.05
Tl-208	N/A	N/A	N/A	0.20	0.03	0.02
Bi-212	N/A	N/A	N/A	0.86	0.30	0.26
Pb-212	N/A	N/A	N/A	0.73	0.07	0.04
Bi-214	N/A	N/A	N/A	1.04	0.08	0.04
Pb-214	N/A	N/A	N/A	1.09	0.09	0.05
Ac-228	N/A	N/A	N/A	0.67	0.07	0.07
Th-234	N/A	N/A	N/A	-1.14	1.95	0.76
U-235	N/A	N/A	N/A	0.03	0.12	0.04
Am-241	N/A	N/A	N/A	0.07	0.35	0.60
Analytical Parameter	**Grid 3-071 SW Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-071 SE RL05-0517-1085 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	N/A	N/A	N/A	0.04	0.11	0.18
K-40	N/A	N/A	N/A	13.96	1.52	0.18
Co-58	N/A	N/A	N/A	-0.01	0.01	0.02
Co-60	N/A	N/A	N/A	0.00	0.01	0.02
Zn-65	N/A	N/A	N/A	-0.03	0.03	0.04
Sb-125	N/A	N/A	N/A	-0.03	0.03	0.06
I-131	N/A	N/A	N/A	0.00	0.02	0.04
Cs-134	N/A	N/A	N/A	0.01	0.01	0.02
Cs-137	N/A	N/A	N/A	0.10	0.02	0.02
Eu-152	N/A	N/A	N/A	0.02	0.05	0.07
Eu-154	N/A	N/A	N/A	-0.02	0.03	0.05
Tl-208	N/A	N/A	N/A	0.21	0.03	0.02
Bi-212	N/A	N/A	N/A	0.67	0.27	0.26
Pb-212	N/A	N/A	N/A	0.75	0.07	0.05
Bi-214	N/A	N/A	N/A	1.08	0.08	0.04
Pb-214	N/A	N/A	N/A	1.16	0.09	0.05
Ac-228	N/A	N/A	N/A	0.73	0.08	0.08
Th-234	N/A	N/A	N/A	1.76	2.14	0.76
U-235	N/A	N/A	N/A	0.06	0.12	0.05
Am-241	N/A	N/A	N/A	-0.59	0.37	0.59

N/A - Not Applicable, grid location is not included within the scope of this report

Table 5
Grid 3 - 072
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-072 NW RL05-0518-1086			Grid 3-072 NE RL05-0519-1087		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.02	0.10	0.17	-0.06	0.11	0.18
K-40	12.81	1.40	0.18	12.86	1.41	0.15
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.01	0.03	0.04	-0.02	0.03	0.04
Sb-125	0.02	0.03	0.06	-0.02	0.03	0.06
I-131	-0.01	0.02	0.03	0.00	0.02	0.03
Cs-134	0.01	0.01	0.02	0.01	0.01	0.02
Cs-137	0.05	0.02	0.02	0.38	0.05	0.02
Eu-152	0.02	0.05	0.06	-0.01	0.05	0.06
Eu-154	0.01	0.03	0.06	-0.03	0.03	0.06
Tl-208	0.22	0.03	0.04	0.19	0.03	0.04
Bi-212	0.82	0.27	0.29	0.91	0.28	0.25
Pb-212	0.82	0.08	0.04	0.66	0.07	0.04
Bi-214	1.27	0.09	0.04	1.26	0.09	0.04
Pb-214	1.23	0.10	0.05	1.31	0.10	0.05
Ac-228	0.75	0.08	0.08	0.73	0.08	0.08
Th-234	1.23	2.00	0.79	-0.11	0.19	0.76
U-235	0.20	0.12	0.05	0.08	0.12	0.05
Am-241	-0.10	0.36	0.61	0.06	0.35	0.60
Analytical Parameter	**Grid 3-072 SW RL05-0520-1088**			**Grid 3-072 SE RL05-0521-1089**		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.11	0.11	0.19	-0.14	0.12	0.19
K-40	12.34	1.36	0.15	12.58	1.40	0.21
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.04	0.03	0.04	-0.05	0.04	0.04
Sb-125	0.00	0.03	0.06	0.00	0.04	0.06
I-131	-0.01	0.02	0.03	0.01	0.02	0.04
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	0.13	0.02	0.02	0.31	0.05	0.00
Eu-152	0.00	0.05	0.06	0.01	0.05	0.07
Eu-154	-0.01	0.03	0.05	0.00	0.04	0.06
Tl-208	0.20	0.03	0.02	0.22	0.03	0.02
Bi-212	0.58	0.26	0.27	0.67	0.30	0.28
Pb-212	0.67	0.06	0.04	0.68	0.07	0.05
Bi-214	1.05	0.08	0.04	1.42	0.10	0.04
Pb-214	1.10	0.09	0.05	1.47	0.11	0.05
Ac-228	0.67	0.08	0.07	0.67	0.09	0.08
Th-234	0.38	2.00	0.78	1.18	2.22	0.85
U-235	-0.02	0.11	0.04	0.07	0.13	0.05
Am-241	-0.04	0.35	0.57	-0.03	0.39	0.67

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 073
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-073 NW RL05-0522-1090			Grid 3-073 NE RL05-0523-1091		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.11	0.19	0.07	0.12	0.21
K-40	13.16	1.43	0.15	14.95	1.62	0.19
Co-58	0.00	0.01	0.02	-0.01	0.01	0.02
Co-60	0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.02	0.03	0.04	-0.01	0.03	0.05
Sb-125	0.02	0.04	0.06	-0.02	0.04	0.07
I-131	0.00	0.02	0.04	0.01	0.02	0.04
Cs-134	0.01	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.36	0.05	0.02	0.88	0.10	0.02
Eu-152	0.02	0.05	0.07	0.03	0.05	0.07
Eu-154	0.00	0.03	0.06	0.00	0.04	0.06
Tl-208	0.20	0.03	0.04	0.23	0.04	0.02
Bi-212	0.76	0.28	0.24	0.74	0.30	0.28
Pb-212	0.80	0.08	0.04	0.82	0.08	0.05
Bi-214	1.34	0.09	0.04	1.37	0.10	0.04
Pb-214	1.43	0.10	0.05	1.43	0.11	0.05
Ac-228	0.74	0.08	0.07	0.83	0.08	0.08
Th-234	-0.08	1.96	0.78	0.72	2.22	0.84
U-235	0.10	0.12	0.05	0.04	0.13	0.05
Am-241	-0.30	0.35	0.59	-0.22	0.39	0.67
Analytical Parameter	Grid 3-073 SW RL05-0524-1092			Grid 3-073 SE RL05-0525-1093		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.03	0.12	0.21	-0.01	0.12	0.20
K-40	14.76	1.62	0.19	14.54	1.60	0.20
Co-58	0.00	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	-0.01	0.01	0.02
Zn-65	-0.01	0.03	0.05	0.01	0.04	0.06
Sb-125	0.03	0.04	0.07	-0.02	0.04	0.06
I-131	0.01	0.02	0.04	0.00	0.02	0.04
Cs-134	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	0.38	0.05	0.02	0.18	0.03	0.03
Eu-152	-0.04	0.05	0.07	0.03	0.05	0.07
Eu-154	-0.01	0.04	0.06	0.01	0.04	0.06
Tl-208	0.22	0.03	0.03	0.24	0.04	0.02
Bi-212	0.86	0.28	0.32	0.86	0.30	0.30
Pb-212	0.76	0.07	0.05	0.77	0.07	0.05
Bi-214	1.27	0.09	0.04	1.28	0.10	0.04
Pb-214	1.30	0.10	0.06	1.31	0.10	0.05
Ac-228	0.82	0.09	0.08	0.73	0.08	0.08
Th-234	0.00	2.21	0.87	1.16	2.27	0.87
U-235	-0.04	0.13	0.05	0.00	0.13	0.05
Am-241	0.08	0.40	0.69	-0.05	0.40	0.68

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 074
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-074 NW RL05-0526-1094			Grid 3-074 NE RL05-0527-1095		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.15	0.13	0.20	-0.04	0.08	0.13
K-40	15.16	1.66	0.22	8.49	0.95	0.14
Co-58	-0.01	0.02	0.02	-0.01	0.01	0.01
Co-60	-0.01	0.02	0.03	0.00	0.01	0.02
Zn-65	-0.02	0.04	0.05	-0.01	0.03	0.04
Sb-125	0.00	0.04	0.07	0.00	0.03	0.05
I-131	0.02	0.03	0.04	0.00	0.02	0.03
Cs-134	0.01	0.01	0.02	0.00	0.01	0.01
Cs-137	0.04	0.02	0.02	0.06	0.02	0.02
Eu-152	0.00	0.06	0.08	-0.01	0.04	0.05
Eu-154	0.01	0.04	0.07	-0.03	0.03	0.04
Tl-208	0.27	0.04	0.02	0.10	0.02	0.02
Bi-212	1.00	0.38	0.03	0.50	0.21	0.19
Pb-212	0.92	0.09	0.05	0.36	0.04	0.04
Bi-214	1.96	0.13	0.05	1.01	0.07	0.03
Pb-214	2.01	0.14	0.06	1.01	0.08	0.04
Ac-228	0.90	0.09	0.09	0.36	0.05	0.06
Th-234	3.46	2.82	0.99	1.61	1.73	0.63
U-235	0.03	0.15	0.06	0.04	0.10	0.04
Am-241	-0.36	0.44	0.74	-0.26	0.29	0.48
	Grid 3-074 SW RL05-0528-1096			Grid 3-074 SE RL05-0529-1097		
Analytical Parameter	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.13	0.22	-0.09	0.09	0.15
K-40	14.48	1.59	0.20	12.51	1.36	0.15
Co-58	-0.02	0.01	0.02	0.00	0.01	0.02
Co-60	-0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	0.00	0.04	0.05	-0.01	0.03	0.04
Sb-125	0.00	0.04	0.07	0.02	0.03	0.05
I-131	0.01	0.02	0.04	0.01	0.02	0.03
Cs-134	-0.01	0.02	0.02	0.00	0.01	0.02
Cs-137	0.51	0.07	0.03	0.18	0.03	0.02
Eu-152	0.00	0.05	0.08	0.01	0.04	0.06
Eu-154	-0.02	0.04	0.06	0.01	0.03	0.05
Tl-208	0.24	0.04	0.02	0.16	0.03	0.02
Bi-212	0.76	0.33	0.29	0.58	0.24	0.24
Pb-212	0.77	0.07	0.05	0.58	0.06	0.04
Bi-214	1.34	0.10	0.04	1.00	0.07	0.03
Pb-214	1.49	0.11	0.06	1.06	0.08	0.04
Ac-228	0.77	0.09	0.08	0.54	0.06	0.07
Th-234	-0.09	2.25	0.86	0.82	1.80	0.69
U-235	0.06	0.13	0.05	0.00	0.11	0.04
Am-241	-0.15	0.41	0.69	-0.40	0.33	0.54

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 075
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-075 NW RL05-0530-1098			Grid 3-075 NE RL05-0531-1099		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.02	0.17	0.31	0.02	0.19	0.34
K-40	10.23	1.38	0.25	12.99	1.69	0.37
Co-58	-0.02	0.02	0.03	-0.02	0.02	0.03
Co-60	0.00	0.02	0.04	0.02	0.02	0.05
Zn-65	0.02	0.04	0.08	0.00	0.07	0.11
Sb-125	0.02	0.06	0.10	0.00	0.06	0.11
I-131	-0.03	0.03	0.06	0.01	0.04	0.07
Cs-134	0.01	0.02	0.03	-0.02	0.02	0.03
Cs-137	0.01	0.03	0.05	0.15	0.04	0.04
Eu-152	0.02	0.07	0.11	-0.05	0.09	0.13
Eu-154	0.00	0.05	0.09	0.01	0.06	0.11
Tl-208	0.12	0.05	0.07	0.16	0.05	0.04
Bi-212	0.62	0.39	0.51	0.67	0.36	0.45
Pb-212	0.44	0.08	0.07	0.38	0.11	0.16
Bi-214	0.93	0.11	0.07	1.27	0.13	0.07
Pb-214	0.95	0.14	0.08	1.26	0.13	0.10
Ac-228	0.37	0.15	0.25	0.57	0.19	0.30
Th-234	-1.60	3.37	1.33	0.70	3.78	1.41
U-235	0.07	0.20	0.08	-0.06	0.24	0.09
Am-241	0.27	0.60	1.08	-0.44	0.69	1.17
Analytical Parameter	Grid 3-075 SW RL05-0532-1100			Grid 3-075 SE RL05-0533-1101		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.09	0.21	0.35	-0.02	0.18	0.32
K-40	11.95	1.62	0.37	11.81	1.51	0.32
Co-58	0.00	0.03	0.05	-0.02	0.02	0.03
Co-60	-0.01	0.02	0.03	-0.02	0.02	0.03
Zn-65	0.02	0.06	0.11	0.00	0.05	0.08
Sb-125	-0.03	0.07	0.11	0.01	0.05	0.10
I-131	-0.02	0.04	0.07	-0.02	0.04	0.06
Cs-134	-0.01	0.03	0.04	0.01	0.02	0.03
Cs-137	0.16	0.04	0.05	0.06	0.04	0.04
Eu-152	0.03	0.09	0.14	0.03	0.08	0.12
Eu-154	0.08	0.07	0.11	-0.04	0.06	0.09
Tl-208	0.24	0.06	0.09	0.14	0.04	0.03
Bi-212	1.06	0.49	0.49	0.70	0.40	0.49
Pb-212	0.57	0.10	0.17	0.62	0.10	0.06
Bi-214	1.20	0.14	0.08	0.86	0.10	0.07
Pb-214	1.33	0.14	0.10	0.82	0.10	0.08
Ac-228	0.67	0.19	0.34	0.52	0.16	0.28
Th-234	1.31	4.02	1.58	0.80	3.33	1.27
U-235	0.21	0.24	0.09	-0.03	0.21	0.08
Am-241	-0.21	0.71	1.24	0.14	0.63	1.11

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 076

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-076 NW RL05-0877			Grid 3-076 NE RL05-0878		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.02	0.11	0.19	0.03	0.10	0.17
K-40	18.00	1.90	0.22	14.00	1.50	0.15
Co-58	-0.02	0.01	0.02	-0.02	0.01	0.02
Co-60	-0.01	0.01	0.02	-0.01	0.01	0.02
Zn-65	0.00	0.04	0.05	0.01	0.03	0.05
Sb-125	0.00	0.04	0.07	0.01	0.03	0.06
I-131	0.01	0.01	0.02	0.01	0.01	0.02
Cs-134	0.00	0.01	0.02	0.01	0.01	0.02
Cs-137	0.05	0.02	0.02	0.13	0.03	0.02
Eu-152	-0.04	0.06	0.08	-0.03	0.05	0.06
Eu-154	0.02	0.04	0.07	0.01	0.03	0.05
Tl-208	0.29	0.04	0.02	0.20	0.03	0.02
Bi-212	1.20	0.34	0.31	0.63	0.26	0.23
Pb-212	0.90	0.08	0.05	0.63	0.06	0.04
Bi-214	1.60	0.11	0.04	1.00	0.08	0.04
Pb-214	1.70	0.13	0.05	1.10	0.09	0.05
Ac-228	1.00	0.09	0.09	0.69	0.08	0.08
Th-234	-1.60	2.40	0.91	-0.41	1.90	0.79
U-235	0.24	0.05	0.04	0.01	0.12	0.05
Am-241	-0.46	0.43	0.71	0.26	0.34	0.60
Analytical Parameter	Grid 3-076 SW RL05-0879			Grid 3-076 SE RL05-0880		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.21	0.38	0.10	0.22	0.40
K-40	15.00	1.90	0.29	15.00	2.00	0.47
Co-58	-0.02	0.02	0.04	0.00	0.02	0.04
Co-60	0.00	0.03	0.05	0.01	0.02	0.05
Zn-65	-0.05	0.07	0.09	0.03	0.06	0.10
Sb-125	0.05	0.07	0.13	0.01	0.07	0.12
I-131	0.00	0.02	0.04	-0.01	0.03	0.05
Cs-134	0.00	0.02	0.03	0.02	0.02	0.04
Cs-137	0.15	0.05	0.04	0.11	0.06	0.05
Eu-152	-0.03	0.10	0.13	0.01	0.10	0.14
Eu-154	-0.02	0.07	0.11	-0.01	0.07	0.12
Tl-208	0.21	0.05	0.09	0.16	0.05	0.04
Bi-212	0.96	0.53	0.56	0.85	0.62	0.67
Pb-212	0.65	0.12	0.18	0.61	0.11	0.18
Bi-214	1.10	0.13	0.08	1.10	0.13	0.10
Pb-214	1.30	0.14	0.10	1.20	0.14	0.10
Ac-228	0.57	0.22	0.33	0.51	0.21	0.33
Th-234	2.90	4.30	1.60	1.40	4.30	1.60
U-235	-0.03	0.23	0.10	-0.02	0.24	0.11
Am-241	-0.93	0.76	1.20	-0.54	0.73	1.20

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 077
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-077 NW RL05-0889			Grid 3-077 NE RL05-0890		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.10	0.17	0.31	0.00	0.18	0.32
K-40	12.00	1.50	0.31	12.00	1.60	0.32
Co-58	0.00	0.02	0.04	-0.01	0.02	0.03
Co-60	0.00	0.02	0.04	0.02	0.02	0.04
Zn-65	0.02	0.06	0.09	0.02	0.05	0.09
Sb-125	0.01	0.06	0.10	0.05	0.06	0.11
I-131	-0.03	0.02	0.04	0.01	0.02	0.04
Cs-134	0.00	0.02	0.03	-0.01	0.02	0.03
Cs-137	0.10	0.04	0.04	0.06	0.04	0.04
Eu-152	0.00	0.08	0.12	0.02	0.09	0.10
Eu-154	0.02	0.06	0.10	0.02	0.06	0.11
Tl-208	0.17	0.05	0.08	0.18	0.05	0.03
Bi-212	0.45	0.32	0.51	0.70	0.35	0.53
Pb-212	0.59	0.10	0.16	0.53	0.09	0.15
Bi-214	0.85	0.11	0.07	0.85	0.11	0.07
Pb-214	0.91	0.12	0.09	0.89	0.11	0.08
Ac-228	0.49	0.11	0.15	0.60	0.17	0.28
Th-234	-0.45	3.40	1.50	-0.84	3.20	1.40
U-235	-0.12	0.21	0.07	0.13	0.21	0.08
Am-241	-0.14	0.60	1.10	0.08	0.62	1.10
Analytical Parameter	Grid 3-077 SW RL05-0891			Grid 3-077 SE RL05-0892		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.19	0.19	0.36	0.12	0.15	0.29
K-40	13.00	1.70	0.35	11.00	1.40	0.27
Co-58	0.01	0.02	0.04	0.00	0.02	0.03
Co-60	-0.01	0.03	0.04	-0.02	0.02	0.03
Zn-65	0.02	0.06	0.10	0.00	0.06	0.08
Sb-125	-0.01	0.06	0.11	-0.04	0.05	0.09
I-131	-0.01	0.03	0.04	-0.01	0.02	0.04
Cs-134	0.00	0.02	0.04	-0.01	0.02	0.03
Cs-137	0.34	0.06	0.04	0.01	0.02	0.04
Eu-152	0.00	0.09	0.12	0.03	0.08	0.11
Eu-154	-0.01	0.06	0.11	0.01	0.06	0.10
Tl-208	0.16	0.05	0.08	0.16	0.04	0.07
Bi-212	0.87	0.39	0.57	0.49	0.32	0.64
Pb-212	0.66	0.11	0.17	0.60	0.10	0.14
Bi-214	1.00	0.12	0.07	0.79	0.13	0.20
Pb-214	1.10	0.14	0.09	0.95	0.10	0.08
Ac-228	0.70	0.19	0.32	0.46	0.18	0.28
Th-234	-0.91	3.80	1.40	-1.30	3.40	1.40
U-235	-0.05	0.22	0.09	0.08	0.11	0.19
Am-241	-0.09	0.70	1.20	-0.01	0.59	1.00

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 078
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-078 NW RL05-1097			Grid 3-078 NE RL05-1098		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.05	0.15	0.27	0.12	0.14	0.27
K-40	6.50	0.98	0.30	13.00	1.60	0.35
Co-58	-0.01	0.02	0.02	-0.01	0.02	0.03
Co-60	0.02	0.02	0.05	-0.01	0.02	0.04
Zn-65	-0.02	0.05	0.07	0.03	0.06	0.09
Sb-125	0.00	0.06	0.09	0.01	0.04	0.08
I-131	0.00	0.02	0.03	-0.01	0.02	0.03
Cs-134	0.00	0.01	0.02	0.00	0.02	0.03
Cs-137	0.07	0.05	0.03	-0.01	0.02	0.03
Eu-152	0.02	0.05	0.09	0.02	0.06	0.09
Eu-154	0.02	0.04	0.06	-0.01	0.04	0.06
Tl-208	0.11	0.03	0.06	0.15	0.05	0.07
Bi-212	0.14	0.33	0.55	1.00	0.51	0.49
Pb-212	0.31	0.05	0.06	0.52	0.08	0.06
Bi-214	0.72	0.10	0.06	0.89	0.11	0.06
Pb-214	0.77	0.09	0.07	1.00	0.60	0.65
Ac-228	0.30	0.15	0.22	0.56	0.17	0.28
Th-234	0.47	0.52	0.62	1.00	0.60	0.65
U-235	0.09	0.14	0.06	-0.01	0.15	0.06
Am-241	-0.03	0.06	0.10	0.00	0.08	0.13

Analytical Parameter	Grid 3-078 SW RL05-1099			Grid 3-078 SE RL05-1100		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.04	0.15	0.27	0.03	0.13	0.23
K-40	8.40	1.20	0.35	1.10	1.30	0.28
Co-58	-0.03	0.02	0.03	-0.02	0.02	0.02
Co-60	0.00	0.02	0.04	-0.01	0.02	0.03
Zn-65	-0.01	0.06	0.09	0.02	0.04	0.07
Sb-125	0.02	0.05	0.09	-0.01	0.04	0.07
I-131	0.00	0.02	0.03	0.01	0.02	0.03
Cs-134	-0.01	0.02	0.03	0.01	0.01	0.03
Cs-137	0.02	0.02	0.05	-0.02	0.02	0.03
Eu-152	0.01	0.05	0.09	0.01	0.05	0.08
Eu-154	-0.04	0.04	0.06	0.02	0.04	0.06
Tl-208	0.12	0.04	0.07	0.19	0.04	0.03
Bi-212	0.48	0.50	0.51	0.70	0.35	0.42
Pb-212	0.37	0.06	0.06	0.50	0.06	0.05
Bi-214	0.86	0.11	0.06	0.92	0.11	0.05
Pb-214	0.86	0.10	0.07	0.96	0.10	0.06
Ac-228	0.35	0.15	0.26	0.48	0.15	0.24
Th-234	0.10	0.59	0.73	0.62	0.62	0.72
U-235	0.06	0.15	0.06	0.04	0.13	0.06
Am-241	0.04	0.08	0.13	-0.11	0.07	0.11

N/A - Not Applicable, grid location is not included within the scope of this report

Table 5
Grid 3 - 079
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-079 NW RL05-1101			Grid 3-079 NE RL05-1102		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.12	0.17	0.31	-0.02	0.13	0.23
K-40	7.20	1.10	0.35	11.00	1.30	0.23
Co-58	0.00	0.02	0.03	0.00	0.02	0.03
Co-60	0.00	0.03	0.05	0.00	0.02	0.03
Zn-65	0.00	0.04	0.07	-0.02	0.05	0.07
Sb-125	0.03	0.07	0.11	0.02	0.05	0.08
I-131	0.01	0.02	0.04	0.00	0.02	0.03
Cs-134	-0.01	0.02	0.03	0.01	0.02	0.03
Cs-137	0.32	0.07	0.04	0.01	0.02	0.04
Eu-152	0.01	0.06	0.10	0.04	0.06	0.09
Eu-154	0.02	0.04	0.07	0.00	0.04	0.07
Tl-208	0.11	0.04	0.06	0.19	0.04	0.07
Bi-212	-0.06	0.34	0.52	1.10	0.43	0.34
Pb-212	0.29	0.06	0.07	0.60	0.07	0.06
Bi-214	0.72	0.10	0.05	1.20	0.11	0.06
Pb-214	0.74	0.10	0.09	1.20	0.11	0.07
Ac-228	0.34	0.13	0.26	0.69	0.19	0.26
Th-234	0.57	0.63	0.74	0.57	0.64	0.74
U-235	0.02	0.15	0.07	-0.01	0.15	0.07
Am-241	-0.06	0.07	0.12	-0.02	0.08	0.13
Analytical Parameter	Grid 3-079 SW RL05-1103			Grid 3-079 SE RL05-1104		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.09	0.16	0.29	-0.08	0.14	0.24
K-40	8.10	1.10	0.36	12.00	1.60	0.34
Co-58	-0.01	0.02	0.03	-0.02	0.02	0.03
Co-60	0.04	0.03	0.05	0.00	0.02	0.04
Zn-65	0.00	0.05	0.07	0.02	0.05	0.08
Sb-125	0.00	0.06	0.10	0.04	0.05	0.10
I-131	-0.01	0.02	0.04	-0.01	0.02	0.03
Cs-134	0.00	0.02	0.03	-0.01	0.02	0.03
Cs-137	0.23	0.05	0.04	-0.02	0.02	0.03
Eu-152	0.05	0.06	0.09	0.00	0.06	0.09
Eu-154	-0.03	0.04	0.06	-0.01	0.04	0.07
Tl-208	0.13	0.04	0.07	0.19	0.05	0.03
Bi-212	0.37	0.34	0.61	0.61	0.40	0.45
Pb-212	0.40	0.06	0.06	0.59	0.08	0.06
Bi-214	0.76	0.11	0.07	0.85	0.11	0.07
Pb-214	0.77	0.10	0.08	0.88	0.10	0.07
Ac-228	0.34	0.13	0.24	0.48	0.19	0.28
Th-234	0.51	0.62	0.70	0.29	0.62	0.78
U-235	0.08	0.15	0.07	0.06	0.14	0.07
Am-241	-0.06	0.08	0.12	-0.03	0.08	0.13

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 080

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-080 NW RL05-0955 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-080 NE RL05-0956 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.02	0.15	0.27	-0.18	0.20	0.33
K-40	8.00	1.20	0.32	13.00	1.80	0.33
Co-58	-0.02	0.02	0.03	-0.02	0.02	0.03
Co-60	0.02	0.02	0.04	0.01	0.02	0.05
Zn-65	0.02	0.05	0.09	-0.02	0.06	0.09
Sb-125	-0.01	0.05	0.10	-0.01	0.07	0.12
I-131	-0.02	0.02	0.03	-0.02	0.03	0.05
Cs-134	-0.01	0.02	0.03	0.00	0.02	0.04
Cs-137	-0.01	0.02	0.03	0.00	0.03	0.05
Eu-152	-0.01	0.08	0.11	-0.05	0.10	0.12
Eu-154	0.00	0.05	0.09	0.04	0.07	0.12
Tl-208	0.09	0.04	0.06	0.17	0.06	0.08
Bi-212	0.32	0.25	0.52	0.88	0.57	0.62
Pb-212	0.35	0.07	0.13	0.64	0.10	0.09
Bi-214	0.82	0.11	0.40	1.20	0.14	0.08
Pb-214	1.00	0.11	0.07	1.40	0.15	0.10
Ac-228	0.35	0.13	0.24	0.66	0.20	0.32
Th-234	4.10	3.50	1.30	-1.50	4.10	1.60
U-235	0.19	0.18	0.08	0.01	0.25	0.10
Am-241	-0.25	0.55	0.95	0.10	0.73	1.30
Analytical Parameter	Grid 3-080 SW RL05-0957 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-080 SE RL05-0958 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.10	0.19	0.36	0.14	0.20	0.39
K-40	13.00	1.70	0.37	17.00	2.10	0.35
Co-58	-0.01	0.02	0.04	-0.02	0.02	0.04
Co-60	0.00	0.02	0.04	-0.01	0.03	0.05
Zn-65	0.00	0.06	0.09	-0.02	0.08	0.11
Sb-125	0.04	0.07	0.12	0.03	0.07	0.13
I-131	0.01	0.03	0.05	0.00	0.03	0.06
Cs-134	-0.02	0.03	0.04	0.00	0.03	0.04
Cs-137	-0.02	0.03	0.05	0.00	0.03	0.05
Eu-152	0.03	0.09	0.13	0.03	0.10	0.16
Eu-154	-0.06	0.07	0.11	-0.04	0.07	0.12
Tl-208	0.22	0.06	0.04	0.23	0.06	0.09
Bi-212	0.90	0.45	0.53	0.79	0.52	0.61
Pb-212	0.70	0.11	0.09	0.94	0.14	0.10
Bi-214	1.40	0.15	0.08	1.60	0.16	0.09
Pb-214	1.40	0.14	0.09	1.70	0.17	0.11
Ac-228	0.75	0.18	0.33	0.74	0.23	0.36
Th-234	0.51	4.00	1.50	4.10	4.80	1.90
U-235	0.21	0.24	0.10	0.01	0.27	0.11
Am-241	0.16	0.70	1.20	-0.08	0.80	1.30

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 084

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-084 NW Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-084 NE RL05-0498-1066 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	-0.07	0.10	0.17
K-40	N/A	N/A	N/A	1.37	1.49	0.18
Co-58	N/A	N/A	N/A	-0.02	0.01	0.02
Co-60	N/A	N/A	N/A	-0.01	0.01	0.02
Zn-65	N/A	N/A	N/A	0.00	0.03	0.05
Sb-125	N/A	N/A	N/A	0.00	0.03	0.06
I-131	N/A	N/A	N/A	0.00	0.02	0.03
Cs-134	N/A	N/A	N/A	0.00	0.01	0.02
Cs-137	N/A	N/A	N/A	0.14	0.02	0.02
Eu-152	N/A	N/A	N/A	0.01	0.05	0.06
Eu-154	N/A	N/A	N/A	0.00	0.03	0.06
Tl-208	N/A	N/A	N/A	0.23	0.03	0.02
Bi-212	N/A	N/A	N/A	0.96	0.32	0.27
Pb-212	N/A	N/A	N/A	0.71	0.07	0.04
Bi-214	N/A	N/A	N/A	1.07	0.09	0.04
Pb-214	N/A	N/A	N/A	1.12	0.09	0.05
Ac-228	N/A	N/A	N/A	0.71	0.07	0.07
Th-234	N/A	N/A	N/A	1.01	2.04	0.79
U-235	N/A	N/A	N/A	0.16	0.12	0.05
Am-241	N/A	N/A	N/A	-0.09	0.36	0.62
Analytical Parameter	Grid 3-084 SW Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-084 SE RL05-0499-1067 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	0.13	0.15	0.20
K-40	N/A	N/A	N/A	12.08	1.35	0.18
Co-58	N/A	N/A	N/A	0.00	0.01	0.02
Co-60	N/A	N/A	N/A	0.00	0.01	0.02
Zn-65	N/A	N/A	N/A	0.03	0.03	0.05
Sb-125	N/A	N/A	N/A	0.02	0.04	0.07
I-131	N/A	N/A	N/A	0.00	0.02	0.04
Cs-134	N/A	N/A	N/A	0.00	0.01	0.02
Cs-137	N/A	N/A	N/A	0.10	0.03	0.02
Eu-152	N/A	N/A	N/A	0.03	0.05	0.07
Eu-154	N/A	N/A	N/A	0.00	0.04	0.06
Tl-208	N/A	N/A	N/A	0.21	0.04	0.02
Bi-212	N/A	N/A	N/A	0.50	0.28	0.29
Pb-212	N/A	N/A	N/A	0.63	0.07	0.05
Bi-214	N/A	N/A	N/A	1.06	0.09	0.04
Pb-214	N/A	N/A	N/A	1.11	0.09	0.05
Ac-228	N/A	N/A	N/A	0.69	0.08	0.08
Th-234	N/A	N/A	N/A	1.83	2.34	0.84
U-235	N/A	N/A	N/A	-0.09	0.12	0.05
Am-241	N/A	N/A	N/A	-0.18	0.40	0.68

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 085
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-085 NW RL05-0500-1068 Result (pCi/g)	2σ (pCi/g)	MDA (pCi/g)	Grid 3-085 NE RL05-0501-1069 Result (pCi/g)	2σ (pCi/g)	MDA (pCi/g)
Be-7	-0.03	0.11	0.18	-0.09	0.11	0.18
K-40	13.51	1.47	0.16	14.51	1.58	0.18
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	-0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	0.00	0.03	0.05	0.00	0.03	0.05
Sb-125	-0.01	0.03	0.06	0.00	0.04	0.06
I-131	0.01	0.02	0.03	-0.02	0.02	0.03
Cs-134	0.00	0.01	0.02	0.01	0.01	0.02
Cs-137	0.16	0.03	0.02	0.13	0.02	0.02
Eu-152	-0.02	0.05	0.07	0.02	0.05	0.07
Eu-154	-0.01	0.03	0.06	0.00	0.04	0.06
Tl-208	0.24	0.03	0.02	0.25	0.03	0.02
Bi-212	0.97	0.25	0.26	0.74	0.24	0.28
Pb-212	0.76	0.07	0.04	0.77	0.07	0.05
Bi-214	1.20	0.09	0.04	1.25	0.09	0.04
Pb-214	1.19	0.09	0.05	1.31	0.10	0.05
Ac-228	0.75	0.08	0.07	0.72	0.08	0.08
Th-234	2.48	2.23	0.79	0.54	2.05	0.82
U-235	-0.05	0.12	0.04	0.06	0.12	0.05
Am-241	-0.43	0.36	0.59	-0.14	0.36	0.61
Analytical Parameter	**Grid 3-085 SW RL05-0502-1070 Result (pCi/g)**	**2σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-085 SE RL05-0503-1071 Result (pCi/g)**	**2σ (pCi/g)**	**MDA (pCi/g)**
Be-7	-0.10	0.22	0.38	0.09	0.21	0.40
K-40	13.78	1.83	0.39	13.13	1.72	0.31
Co-58	-0.01	0.02	0.04	-0.02	0.02	0.04
Co-60	0.01	0.02	0.05	0.00	0.02	0.05
Zn-65	0.05	0.07	0.12	0.03	0.05	0.10
Sb-125	-0.06	0.08	0.13	0.08	0.07	0.14
I-131	0.00	0.04	0.07	-0.02	0.04	0.07
Cs-134	0.03	0.03	0.05	-0.01	0.03	0.04
Cs-137	0.17	0.07	0.05	0.17	0.05	0.05
Eu-152	-0.01	0.11	0.16	-0.01	0.10	0.13
Eu-154	0.02	0.07	0.13	-0.02	0.07	0.11
Tl-208	0.20	0.06	0.05	0.23	0.05	0.04
Bi-212	1.18	0.43	0.63	0.92	0.69	0.60
Pb-212	0.81	0.12	0.10	0.53	0.11	0.17
Bi-214	1.33	0.15	0.09	1.24	0.15	0.07
Pb-214	1.41	0.15	0.11	1.45	0.16	0.10
Ac-228	0.89	0.15	0.15	0.87	0.21	0.36
Th-234	-0.44	4.54	1.75	-1.95	4.07	1.72
U-235	0.16	0.26	0.10	0.13	0.24	0.10
Am-241	-0.18	0.83	1.44	-0.13	0.73	1.27

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 086
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-086 NW RL05-0504-1072 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-086 NE RL05-0505-1073 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.19	0.23	0.44	-0.04	0.22	0.38
K-40	14.51	1.87	0.04	14.10	1.82	0.45
Co-58	-0.02	0.03	0.04	0.01	0.02	0.04
Co-60	0.02	0.02	0.05	0.01	0.02	0.05
Zn-65	-0.02	0.06	0.10	-0.05	0.07	0.09
Sb-125	0.01	0.08	0.14	-0.02	0.07	0.12
I-131	0.01	0.04	0.08	0.00	0.04	0.08
Cs-134	-0.01	0.03	0.04	0.00	0.02	0.04
Cs-137	0.53	0.09	0.05	0.22	0.07	0.04
Eu-152	0.07	0.10	0.14	0.05	0.10	0.14
Eu-154	0.00	0.07	0.12	0.05	0.07	0.12
Tl-208	0.26	0.06	0.05	0.25	0.06	0.05
Bi-212	0.75	0.67	0.65	1.48	0.53	0.47
Pb-212	0.77	0.11	0.10	0.77	0.13	0.18
Bi-214	1.33	0.15	0.10	1.11	0.14	0.09
Pb-214	1.39	0.16	0.11	1.25	0.14	0.10
Ac-228	0.73	0.20	0.36	0.73	0.27	0.38
Th-234	0.32	4.19	1.83	-1.98	4.12	1.67
U-235	0.07	0.26	0.10	0.23	0.25	0.10
Am-241	-0.27	0.77	1.33	0.13	0.73	1.30
Analytical Parameter	**Grid 3-086 SW RL05-0506-1074 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-086 SE RL05-0507-1075 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	0.11	0.22	0.42	-0.11	0.23	0.39
K-40	11.54	1.62	0.42	13.32	1.74	0.46
Co-58	-0.01	0.02	0.04	-0.01	0.02	0.04
Co-60	-0.01	0.03	0.05	0.01	0.02	0.05
Zn-65	-0.02	0.06	0.09	-0.05	0.08	0.10
Sb-125	0.03	0.07	0.14	-0.04	0.08	0.13
I-131	0.00	0.04	0.07	-0.02	0.05	0.08
Cs-134	0.00	0.02	0.04	0.01	0.03	0.04
Cs-137	0.50	0.09	0.05	0.69	0.10	0.05
Eu-152	-0.08	0.10	0.15	0.03	0.10	0.15
Eu-154	-0.04	0.07	0.11	-0.02	0.07	0.11
Tl-208	0.22	0.05	0.04	0.18	0.06	0.09
Bi-212	0.78	0.75	0.60	0.87	0.56	0.58
Pb-212	0.70	0.12	0.19	0.63	0.11	0.10
Bi-214	1.13	0.14	0.09	1.08	0.13	0.09
Pb-214	1.35	0.15	0.11	1.09	0.14	0.10
Ac-228	0.68	0.22	0.35	0.80	0.21	0.37
Th-234	0.48	4.17	1.67	-3.09	4.46	1.66
U-235	0.03	0.25	0.10	-0.03	0.24	0.09
Am-241	-0.07	0.73	1.28	-0.06	0.75	1.32

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 087
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-087 NW RL05-0508-1076			Grid 3-087 NE RL05-0509-1077		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.07	0.19	0.32	-0.03	0.19	0.33
K-40	12.58	1.63	0.32	12.53	1.58	0.36
Co-58	-0.01	0.02	0.04	0.00	0.02	0.04
Co-60	0.00	0.02	0.04	-0.02	0.02	0.04
Zn-65	0.02	0.06	0.09	-0.04	0.06	0.08
Sb-125	0.04	0.06	0.12	-0.01	0.06	0.10
I-131	0.01	0.03	0.06	0.04	0.04	0.07
Cs-134	0.00	0.02	0.03	0.01	0.02	0.03
Cs-137	0.17	0.04	0.04	0.09	0.04	0.04
Eu-152	-0.05	0.08	0.11	0.04	0.09	0.13
Eu-154	-0.05	0.06	0.09	0.02	0.06	0.11
Tl-208	0.16	0.05	0.08	0.20	0.05	0.08
Bi-212	0.82	0.37	0.43	0.84	0.50	0.50
Pb-212	0.60	0.09	0.07	0.58	0.10	0.08
Bi-214	0.99	0.12	0.06	1.21	0.13	0.07
Pb-214	0.94	0.12	0.08	1.19	0.13	0.09
Ac-228	0.75	0.12	0.13	0.74	0.12	0.13
Th-234	-0.39	3.21	1.38	2.74	3.75	1.51
U-235	0.12	0.21	0.08	0.38	0.22	0.09
Am-241	-0.37	0.61	1.03	-0.48	0.66	1.11
Analytical Parameter	Grid 3-087 SW RL05-0510-1078			Grid 3-087 SE RL05-0511-1079		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.07	0.22	0.41	0.07	0.22	0.41
K-40	15.11	2.00	0.42	12.61	1.65	0.31
Co-58	-0.03	0.03	0.04	-0.02	0.02	0.04
Co-60	0.01	0.03	0.06	-0.01	0.02	0.04
Zn-65	0.01	0.06	0.11	0.00	0.06	0.09
Sb-125	0.01	0.07	0.13	-0.07	0.07	0.11
I-131	0.02	0.04	0.08	0.01	0.04	0.08
Cs-134	0.00	0.03	0.04	0.01	0.02	0.04
Cs-137	0.35	0.08	0.05	0.44	0.08	0.04
Eu-152	-0.03	0.10	0.14	0.02	0.09	0.12
Eu-154	-0.09	0.07	0.11	-0.06	0.07	0.11
Tl-208	0.23	0.06	0.10	0.16	0.05	0.08
Bi-212	0.99	0.58	0.61	0.64	0.55	0.50
Pb-212	0.63	0.11	0.10	0.62	0.11	0.09
Bi-214	1.13	0.14	0.09	1.20	0.13	0.08
Pb-214	1.26	0.14	0.11	1.22	0.14	0.10
Ac-228	0.81	0.24	0.37	0.52	0.18	0.30
Th-234	-0.41	4.13	1.70	1.14	3.83	1.57
U-235	0.16	0.25	0.10	0.10	0.23	0.09
Am-241	0.08	0.74	1.04	-0.39	0.70	1.19

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 088
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-088 NW RL05-0512-1080			Grid 3-088 NE RL05-0513-1081		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.05	0.16	0.28	0.12	0.19	0.36
K-40	12.39	1.55	0.26	10.80	1.45	0.41
Co-58	0.00	0.02	0.03	-0.01	0.02	0.03
Co-60	0.00	0.02	0.04	0.00	0.02	0.04
Zn-65	-0.01	0.05	0.07	0.01	0.07	0.10
Sb-125	-0.01	0.06	0.10	-0.02	0.06	0.10
I-131	0.00	0.03	0.05	0.01	0.04	0.06
Cs-134	-0.01	0.02	0.03	0.00	0.02	0.03
Cs-137	0.10	0.03	0.04	0.08	0.05	0.04
Eu-152	-0.02	0.08	0.10	0.01	0.09	0.12
Eu-154	0.05	0.06	0.10	-0.01	0.06	0.11
Tl-208	0.16	0.04	0.07	0.18	0.05	0.08
Bi-212	0.23	0.32	0.59	0.84	0.62	0.48
Pb-212	0.60	0.10	0.15	0.54	0.09	0.08
Bi-214	1.15	0.12	0.06	1.21	0.13	0.07
Pb-214	1.21	0.12	0.08	1.21	0.14	0.09
Ac-228	0.60	0.18	0.28	0.62	0.20	0.30
Th-234	0.36	3.33	1.29	0.96	3.64	1.41
U-235	0.01	0.21	0.08	0.14	0.22	0.09
Am-241	0.31	0.59	1.06	0.19	0.64	1.15
Analytical Parameter	Grid 3-088 SW RL05-0514-1082			Grid 3-088 SE RL05-0515-1083		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.08	0.21	0.36	-0.05	0.20	0.35
K-40	12.36	1.63	0.45	12.02	1.57	0.39
Co-58	-0.02	0.02	0.04	-0.02	0.02	0.04
Co-60	0.01	0.02	0.04	0.01	0.02	0.05
Zn-65	-0.01	0.06	0.09	-0.04	0.05	0.07
Sb-125	0.02	0.07	0.13	0.04	0.06	0.11
I-131	0.01	0.04	0.07	-0.03	0.04	0.06
Cs-134	0.01	0.02	0.04	0.00	0.02	0.03
Cs-137	0.13	0.06	0.04	0.06	0.05	0.04
Eu-152	0.01	0.09	0.13	0.01	0.09	0.12
Eu-154	-0.01	0.06	0.11	-0.07	0.06	0.10
Tl-208	0.18	0.05	0.09	0.16	0.05	0.08
Bi-212	0.52	0.43	0.59	0.50	0.35	0.69
Pb-212	0.63	0.10	0.10	0.47	0.09	0.15
Bi-214	1.31	0.14	0.08	1.01	0.13	0.08
Pb-214	1.38	0.15	0.11	1.17	0.13	0.09
Ac-228	0.53	0.19	0.32	0.44	0.16	0.28
Th-234	0.08	4.02	1.51	-0.02	3.60	1.50
U-235	-0.07	0.24	0.09	0.15	0.05	0.07
Am-241	-0.23	0.71	1.23	0.14	0.64	1.15

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 089
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-089 NW RL05-0873			Grid 3-089 NE RL05-0874		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.10	0.16	0.24	0.15	0.16
K-40	13.60	1.48	0.16	15.00	1.60	0.19
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.02	0.03	0.04	-0.02	0.03	0.05
Sb-125	0.01	0.03	0.06	0.02	0.03	0.06
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	0.15	0.02	0.02	0.10	0.02	0.02
Eu-152	0.05	0.05	0.06	0.02	0.05	0.07
Eu-154	0.03	0.03	0.06	0.01	0.00	0.01
Tl-208	0.19	0.03	0.02	0.22	0.03	0.02
Bi-212	0.57	0.26	0.24	0.71	0.30	0.27
Pb-212*	0.63	0.06	0.04	0.77	0.07	0.04
Bi-214	1.00	0.08	0.04	1.20	0.09	0.04
Pb-214	1.10	0.09	0.05	1.30	0.10	0.05
Ac-228	0.66	0.07	0.07	0.71	0.08	0.08
Th-234	0.94	1.90	0.78	0.41	2.00	0.80
U-235	0.07	0.12	0.05	0.12	0.12	0.05
Am-241	0.06	0.35	0.60	-0.14	0.36	0.62
Analytical Parameter	Grid 3-089 SW RL05-0875			Grid 3-089 SE RL05-0876		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.09	0.10	0.17	0.04	0.09	0.15
K-40	13.00	1.40	0.15	12.00	1.40	0.16
Co-58	-0.02	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	-0.01	0.01	0.02
Zn-65	0.01	0.03	0.05	-0.01	0.03	0.04
Sb-125	0.01	0.03	0.06	0.00	0.03	0.05
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	0.02	0.01	0.02	0.00	0.01	0.02
Cs-137	0.09	0.02	0.02	0.07	0.02	0.02
Eu-152	-0.02	0.05	0.06	0.03	0.04	0.06
Eu-154	0.01	0.03	0.06	0.01	0.03	0.05
Tl-208	0.17	0.03	0.02	0.18	0.03	0.02
Bi-212	0.73	0.26	0.25	0.52	0.24	0.24
Pb-212	0.62	0.07	0.04	0.60	0.06	0.04
Bi-214	1.00	0.08	0.04	1.00	0.08	0.04
Pb-214	1.10	0.09	0.05	1.00	0.08	0.05
Ac-228	0.71	0.08	0.07	0.63	0.08	0.06
Th-234	-0.65	2.00	0.75	0.82	1.80	0.72
U-235	0.17	0.04	0.03	0.00	0.11	0.04
Am-241	0.04	0.35	0.61	-0.23	0.32	0.54

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 090

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-090 NW RL05-0893 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-090 NE RL05-0894 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.05	0.09	0.16	-0.02	0.09	0.15
K-40	13.00	1.40	0.17	14.00	1.50	0.17
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	-0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.01	0.03	0.04	0.00	0.03	0.04
Sb-125	-0.01	0.03	0.05	-0.01	0.03	0.05
I-131	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-134	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.10	0.02	0.02	-0.01	0.01	0.02
Eu-152	0.02	0.04	0.06	-0.02	0.04	0.06
Eu-154	0.00	0.03	0.05	0.01	0.03	0.05
Tl-208	0.18	0.03	0.02	0.16	0.03	0.02
Bi-212	0.72	0.31	0.24	0.61	0.20	0.24
Pb-212	0.68	0.06	0.04	0.60	0.06	0.04
Bi-214	1.00	0.08	0.04	1.00	0.78	0.04
Pb-214	1.10	0.08	0.04	1.10	0.09	0.04
Ac-228	0.63	0.07	0.07	0.58	0.07	0.07
Th-234	0.32	1.80	0.72	0.65	1.80	0.71
U-235	0.14	0.03	0.03	0.08	0.11	0.04
Am-241	0.15	0.32	0.56	-0.15	0.33	0.55
Analytical Parameter	**Grid 3-090 SW RL05-0895 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-090 SE RL05-0896 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	0.01	0.09	0.15	-0.01	0.09	0.15
K-40	13.00	1.40	0.18	14.00	1.50	0.13
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.04	0.03	0.04	-0.01	0.03	0.04
Sb-125	0.01	0.03	0.06	0.00	0.03	0.05
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	0.01	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.12	0.02	0.02	0.01	0.01	0.02
Eu-152	-0.02	0.04	0.06	0.01	0.04	0.05
Eu-154	-0.02	0.03	0.05	0.02	0.03	0.05
Tl-208	0.19	0.03	0.02	0.18	0.03	0.02
Bi-212	0.68	0.23	0.24	0.70	0.23	0.23
Pb-212	0.59	0.07	0.04	0.60	0.06	0.04
Bi-214	1.00	0.08	0.04	0.81	0.06	0.03
Pb-214	1.10	0.09	0.04	0.80	0.07	0.04
Ac-228	0.61	0.07	0.07	0.60	0.07	0.07
Th-234	1.90	2.00	0.73	-0.96	1.70	0.66
U-235	0.69	0.11	0.04	-0.05	0.10	0.04
Am-241	0.03	0.33	0.56	-0.01	0.29	0.51

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 091
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-091 NW RL05-0928			Grid 3-091 NE RL05-0929		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.16	0.18	0.34	0.20	0.19	0.36
K-40	13.00	1.70	0.39	12.00	1.60	0.25
Co-58	0.00	0.02	0.03	-0.01	0.02	0.03
Co-60	0.00	0.02	0.04	0.00	0.02	0.04
Zn-65	0.01	0.06	0.10	-0.01	0.05	0.08
Sb-125	0.02	0.06	0.10	-0.01	0.06	0.11
I-131	0.00	0.02	0.04	0.00	0.02	0.04
Cs-134	0.01	0.02	0.04	-0.01	0.02	0.03
Cs-137	0.02	0.03	0.05	0.06	0.04	0.04
Eu-152	0.00	0.08	0.11	-0.05	0.08	0.12
Eu-154	-0.03	0.06	0.10	0.00	0.08	0.12
Tl-208	0.19	0.05	0.08	0.15	0.05	0.07
Bi-212	0.30	0.34	0.64	0.85	0.47	0.56
Pb-212	0.56	0.09	0.07	0.51	0.09	0.15
Bi-214	0.84	0.11	0.08	0.87	0.11	0.08
Pb-214	0.92	0.11	0.08	0.92	0.12	0.08
Ac-228	0.60	0.12	0.14	0.55	0.13	0.15
Th-234	-0.01	3.30	1.50	1.40	3.40	1.40
U-235	0.08	0.21	0.08	0.04	0.19	0.08
Am-241	-0.21	0.60	1.00	-0.05	0.63	1.10
Analytical Parameter	Grid 3-091 SW RL05-0930			Grid 3-091 SE RL05-0931		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.10	0.17	0.31	0.04	0.16	0.29
K-40	12.00	1.60	0.26	12.00	1.60	0.28
Co-58	0.01	0.02	0.03	-0.01	0.02	0.03
Co-60	0.00	0.02	0.04	0.00	0.02	0.04
Zn-65	-0.02	0.06	0.09	0.00	0.05	0.08
Sb-125	0.01	0.05	0.10	0.02	0.06	0.11
I-131	0.00	0.02	0.04	-0.01	0.02	0.04
Cs-134	-0.01	0.02	0.03	-0.01	0.02	0.03
Cs-137	0.09	0.03	0.03	-0.01	0.02	0.04
Eu-152	-0.03	0.08	0.11	0.06	0.08	0.12
Eu-154	0.00	0.06	0.10	0.06	0.06	0.10
Tl-208	0.12	0.04	0.07	0.16	0.04	0.07
Bi-212	0.51	0.41	0.50	0.50	0.47	0.46
Pb-212	0.47	0.09	0.14	0.50	0.10	0.12
Bi-214	0.78	0.10	0.07	0.80	0.11	0.07
Pb-214	0.90	0.11	0.08	0.79	0.10	0.08
Ac-228	0.48	0.15	0.27	0.62	0.19	0.30
Th-234	-1.00	3.10	1.40	-2.10	3.50	1.40
U-235	-0.02	0.19	0.08	0.15	0.20	0.08
Am-241	-0.01	0.59	1.00	0.46	0.61	1.10

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 092
JN-3Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-092 NW RL05-0943			Grid 3-092 NE RL05-0944		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.07	0.09	0.16	0.01	0.10	0.16
K-40	13.00	1.40	0.15	14.00	1.50	0.18
Co-58	-0.01	0.01	0.02	-0.02	0.01	0.02
Co-60	0.00	0.01	0.02	-0.01	0.01	0.02
Zn-65	0.00	0.03	0.04	0.00	0.03	0.05
Sb-125	0.01	0.03	0.06	0.00	0.03	0.06
I-131	0.00	0.01	0.02	0.01	0.01	0.02
Cs-134	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	0.03	0.01	0.02	0.02	0.02	0.02
Eu-152	0.00	0.04	0.06	0.01	0.04	0.06
Eu-154	0.00	0.03	0.05	0.01	0.03	0.05
Tl-208	0.17	0.03	0.02	0.19	0.03	0.02
Bi-212	0.70	0.06	0.25	0.77	0.29	0.24
Pb-212	0.58	0.06	0.04	0.61	0.06	0.04
Bi-214	0.96	0.08	0.04	0.95	0.08	0.04
Pb-214	0.97	0.08	0.05	1.00	0.08	0.04
Ac-228	0.62	0.07	0.07	0.58	0.08	0.07
Th-234	0.91	1.90	0.74	1.20	2.00	0.75
U-235	0.02	0.11	0.04	0.01	0.11	0.04
Am-241	-0.34	0.34	0.57	-0.46	0.34	0.57
Analytical Parameter	Grid 3-092 SW RL05-0945			Grid 3-092 SE RL05-0946		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.08	0.10	0.17	0.12	0.10	0.17
K-40	13.00	1.50	0.19	14.00	1.50	0.15
Co-58	-0.01	0.01	0.02	-0.01	11.00	0.02
Co-60	-0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.01	0.03	0.05	0.00	0.03	0.05
Sb-125	0.05	0.03	0.06	0.01	0.03	0.06
I-131	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-134	0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	0.02	0.01	0.02	0.02	0.02	0.02
Eu-152	0.02	0.05	0.07	-0.04	0.05	0.06
Eu-154	0.00	0.03	0.05	0.00	0.03	0.05
Tl-208	0.18	0.03	0.02	0.17	0.03	0.02
Bi-212	0.54	0.27	0.28	0.70	0.25	0.25
Pb-212	0.63	0.06	0.04	0.57	0.07	0.04
Bi-214	1.10	0.09	0.04	1.00	0.08	0.04
Pb-214	1.20	0.09	0.05	1.10	0.09	0.05
Ac-228	0.63	0.08	0.08	0.64	0.08	0.07
Th-234	1.40	2.10	0.77	0.44	1.90	0.79
U-235	0.24	0.12	0.05	0.03	0.11	0.04
Am-241	-0.43	0.36	0.59	-0.16	0.34	0.57

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 093
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-093 NW RL05-0951 Result (pCi/g)	2σ (pCi/g)	MDA (pCi/g)	Grid 3-093 NE RL05-0952 Result (pCi/g)	2σ (pCi/g)	MDA (pCi/g)
Be-7	0.11	0.18	0.33	-0.03	0.18	0.32
K-40	12.00	1.60	0.33	12.00	1.60	0.33
Co-58	-0.01	0.02	0.03	0.00	0.02	0.04
Co-60	0.00	0.02	0.04	-0.01	0.02	0.04
Zn-65	-0.03	0.06	0.08	0.02	0.06	0.09
Sb-125	0.02	0.06	0.10	0.00	0.06	0.11
I-131	0.01	0.02	0.05	-0.02	0.03	0.05
Cs-134	0.00	0.02	0.03	0.01	0.02	0.04
Cs-137	-0.01	0.02	0.04	0.00	0.03	0.05
Eu-152	-0.04	0.08	0.11	-0.08	0.09	0.13
Eu-154	-0.03	0.06	0.10	0.02	0.07	0.11
Tl-208	0.20	0.05	78.00	0.16	0.04	0.08
Bi-212	0.63	0.49	0.51	0.77	0.39	0.51
Pb-212	0.56	0.10	0.15	0.65	0.10	0.08
Bi-214	0.87	0.11	0.07	1.30	0.13	0.08
Pb-214	0.95	0.12	0.08	1.30	0.14	0.09
Ac-228	0.52	0.17	0.27	0.57	0.14	0.14
Th-234	0.85	3.50	1.30	4.70	4.40	1.60
U-235	0.12	0.20	0.08	-0.07	0.23	0.09
Am-241	-0.11	0.62	1.10	-0.34	0.69	1.20

Analytical Parameter	Grid 3-093 SW RL05-0953 Result (pCi/g)	2σ (pCi/g)	MDA (pCi/g)	Grid 3-093 SE RL05-0954 Result (pCi/g)	2σ (pCi/g)	MDA (pCi/g)
Be-7	-0.06	0.16	0.28	-0.09	0.18	0.30
K-40	13.00	1.70	0.39	12.00	1.50	0.33
Co-58	0.00	0.02	0.04	-0.02	0.02	0.04
Co-60	-0.02	0.02	0.04	-0.01	0.02	0.04
Zn-65	0.03	0.05	0.09	0.01	0.06	0.10
Sb-125	-0.05	0.06	0.10	0.04	0.07	0.12
I-131	0.00	0.03	0.05	-0.01	0.03	0.04
Cs-134	0.00	0.02	0.04	0.00	0.02	0.04
Cs-137	0.00	0.03	0.04	0.04	0.03	0.04
Eu-152	-0.05	0.08	0.12	-0.03	0.09	0.12
Eu-154	-0.05	0.06	0.09	-0.01	0.06	0.10
Tl-208	0.17	0.05	0.08	0.17	0.05	0.08
Bi-212	0.73	0.36	0.45	0.81	0.35	0.73
Pb-212	0.50	0.09	0.15	0.52	0.09	0.16
Bi-214	1.10	0.12	0.08	0.94	0.11	0.08
Pb-214	1.10	0.12	0.09	1.10	0.13	0.09
Ac-228	0.62	0.21	0.30	0.68	0.18	0.31
Th-234	-0.73	3.70	1.50	2.20	3.80	1.50
U-235	0.01	0.22	0.08	0.10	0.22	0.09
Am-241	-0.08	0.66	1.20	-0.22	0.67	1.20

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 097
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-097 NW			Grid 3-097 NE RL05-0484-1052		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	0.18	0.19	0.36
K-40	N/A	N/A	N/A	12.38	1.62	0.29
Co-58	N/A	N/A	N/A	-0.01	0.02	0.04
Co-60	N/A	N/A	N/A	-0.01	0.02	0.04
Zn-65	N/A	N/A	N/A	-0.03	0.06	0.09
Sb-125	N/A	N/A	N/A	-0.02	0.07	0.12
I-131	N/A	N/A	N/A	0.00	0.03	0.06
Cs-134	N/A	N/A	N/A	-0.01	0.03	0.04
Cs-137	N/A	N/A	N/A	0.12	0.06	0.04
Eu-152	N/A	N/A	N/A	0.00	0.09	0.11
Eu-154	N/A	N/A	N/A	0.04	0.06	0.11
Tl-208	N/A	N/A	N/A	0.18	0.05	0.09
Bi-212	N/A	N/A	N/A	1.04	0.39	0.59
Pb-212	N/A	N/A	N/A	0.55	0.12	0.17
Bi-214	N/A	N/A	N/A	0.99	0.13	0.09
Pb-214	N/A	N/A	N/A	0.92	0.13	0.10
Ac-228	N/A	N/A	N/A	0.72	0.19	0.34
Th-234	N/A	N/A	N/A	-0.32	3.86	1.54
U-235	N/A	N/A	N/A	0.02	0.23	0.09
Am-241	N/A	N/A	N/A	-0.27	0.71	1.23
	Grid 3-097 SW			Grid 3-097 SE		
Analytical Parameter	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	N/A	N/A	N/A
K-40	N/A	N/A	N/A	N/A	N/A	N/A
Co-58	N/A	N/A	N/A	N/A	N/A	N/A
Co-60	N/A	N/A	N/A	N/A	N/A	N/A
Zn-65	N/A	N/A	N/A	N/A	N/A	N/A
Sb-125	N/A	N/A	N/A	N/A	N/A	N/A
I-131	N/A	N/A	N/A	N/A	N/A	N/A
Cs-134	N/A	N/A	N/A	N/A	N/A	N/A
Cs-137	N/A	N/A	N/A	N/A	N/A	N/A
Eu-152	N/A	N/A	N/A	N/A	N/A	N/A
Eu-154	N/A	N/A	N/A	N/A	N/A	N/A
Tl-208	N/A	N/A	N/A	N/A	N/A	N/A
Bi-212	N/A	N/A	N/A	N/A	N/A	N/A
Pb-212	N/A	N/A	N/A	N/A	N/A	N/A
Bi-214	N/A	N/A	N/A	N/A	N/A	N/A
Pb-214	N/A	N/A	N/A	N/A	N/A	N/A
Ac-228	N/A	N/A	N/A	N/A	N/A	N/A
Th-234	N/A	N/A	N/A	N/A	N/A	N/A
U-235	N/A	N/A	N/A	N/A	N/A	N/A
Am-241	N/A	N/A	N/A	N/A	N/A	N/A

N/A - Not Applicable, gnd location is not included within the scope of this report.

Table 5

Grid 3 - 098

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-098 NW RL05-0485-1053			Grid 3-098 NE RL05-0486-1054		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.02	0.21	0.37	0.25	0.27	0.51
K-40	14.38	1.82	0.34	14.35	1.91	0.47
Co-58	-0.02	0.02	0.03	-0.02	0.02	0.04
Co-60	-0.01	0.02	0.04	0.02	0.03	0.06
Zn-65	-0.01	0.07	0.11	0.02	0.07	0.11
Sb-125	0.07	0.07	0.13	0.09	0.08	0.16
I-131	-0.02	0.04	0.07	0.03	0.04	0.08
Cs-134	0.00	0.02	0.04	-0.02	0.03	0.04
Cs-137	0.11	0.04	0.06	0.37	0.08	0.06
Eu-152	0.02	0.10	0.15	-0.07	0.11	0.14
Eu-154	0.03	0.07	0.12	0.01	0.08	0.13
Tl-208	0.24	0.05	0.09	0.16	0.06	0.06
Bi-212	0.86	0.61	0.64	0.73	0.42	0.86
Pb-212	0.74	0.12	0.09	0.69	0.13	0.20
Bi-214	1.28	0.14	0.08	1.05	0.16	0.09
Pb-214	1.29	0.15	0.11	1.38	0.16	0.12
Ac-228	0.86	0.21	0.36	0.57	0.27	0.37
Th-234	4.30	4.65	1.73	-2.94	4.55	1.84
U-235	0.02	0.25	0.10	0.21	0.27	0.11
Am-241	-1.17	0.78	1.23	0.32	0.85	1.52
Analytical Parameter	Grid 3-098 SW RL05-			Grid 3-098 SE RL05-		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	N/A	N/A	N/A
K-40	N/A	N/A	N/A	N/A	N/A	N/A
Co-58	N/A	N/A	N/A	N/A	N/A	N/A
Co-60	N/A	N/A	N/A	N/A	N/A	N/A
Zn-65	N/A	N/A	N/A	N/A	N/A	N/A
Sb-125	N/A	N/A	N/A	N/A	N/A	N/A
I-131	N/A	N/A	N/A	N/A	N/A	N/A
Cs-134	N/A	N/A	N/A	N/A	N/A	N/A
Cs-137	N/A	N/A	N/A	N/A	N/A	N/A
Eu-152	N/A	N/A	N/A	N/A	N/A	N/A
Eu-154	N/A	N/A	N/A	N/A	N/A	N/A
Tl-208	N/A	N/A	N/A	N/A	N/A	N/A
Bi-212	N/A	N/A	N/A	N/A	N/A	N/A
Pb-212	N/A	N/A	N/A	N/A	N/A	N/A
Bi-214	N/A	N/A	N/A	N/A	N/A	N/A
Pb-214	N/A	N/A	N/A	N/A	N/A	N/A
Ac-228	N/A	N/A	N/A	N/A	N/A	N/A
Th-234	N/A	N/A	N/A	N/A	N/A	N/A
U-235	N/A	N/A	N/A	N/A	N/A	N/A
Am-241	N/A	N/A	N/A	N/A	N/A	N/A

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 099

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-099 NW RL05-0487-1055 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-099 NE RL05-0488-1056 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.04	0.19	0.34	0.09	0.13	0.22
K-40	11.65	1.57	0.36	13.90	1.51	0.17
Co-58	-0.03	0.02	0.03	0.00	0.01	0.02
Co-60	0.00	0.02	0.04	0.01	0.01	0.02
Zn-65	-0.02	0.06	0.09	0.00	0.03	0.05
Sb-125	0.01	0.06	0.12	0.03	0.04	0.07
I-131	-0.02	0.04	0.06	0.00	0.02	0.04
Cs-134	0.00	0.03	0.04	0.01	0.01	0.02
Cs-137	0.27	0.05	0.05	1.79	0.20	0.02
Eu-152	-0.04	0.09	0.14	0.01	0.05	0.08
Eu-154	0.00	0.06	0.11	0.00	0.04	0.06
Tl-208	0.13	0.05	0.08	0.21	0.03	0.02
Bi-212	0.68	0.36	0.73	0.52	0.31	0.27
Pb-212	0.63	0.10	0.09	0.67	0.07	0.05
Bi-214	1.07	0.14	0.08	1.11	0.09	0.04
Pb-214	1.17	0.13	0.09	1.17	0.09	0.05
Ac-228	0.57	0.17	0.30	0.75	0.08	0.07
Th-234	4.07	4.19	1.51	0.22	2.09	0.79
U-235	-0.04	0.21	0.09	0.04	0.13	0.05
Am-241	-0.78	0.68	1.10	0.00	0.38	0.65

Analytical Parameter	Grid 3-099 SW Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-099 SE RL05-0489-1057 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	0.18	0.12	0.21
K-40	N/A	N/A	N/A	13.19	1.46	0.18
Co-58	N/A	N/A	N/A	-0.01	0.01	0.02
Co-60	N/A	N/A	N/A	0.00	0.01	0.02
Zn-65	N/A	N/A	N/A	-0.04	0.03	0.04
Sb-125	N/A	N/A	N/A	0.02	0.03	0.06
I-131	N/A	N/A	N/A	0.02	0.02	0.04
Cs-134	N/A	N/A	N/A	0.00	0.01	0.02
Cs-137	N/A	N/A	N/A	0.14	0.03	0.02
Eu-152	N/A	N/A	N/A	0.00	0.05	0.07
Eu-154	N/A	N/A	N/A	-0.02	0.03	0.05
Tl-208	N/A	N/A	N/A	0.21	0.03	0.02
Bi-212	N/A	N/A	N/A	0.70	0.32	0.28
Pb-212	N/A	N/A	N/A	0.74	0.07	0.04
Bi-214	N/A	N/A	N/A	1.00	0.08	0.04
Pb-214	N/A	N/A	N/A	1.03	0.09	0.05
Ac-228	N/A	N/A	N/A	0.72	0.08	0.08
Th-234	N/A	N/A	N/A	2.15	2.23	0.82
U-235	N/A	N/A	N/A	0.16	0.12	0.05
Am-241	N/A	N/A	N/A	-0.11	0.38	0.64

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 100

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-100 NW RL05-0490-1058			Grid 3-100 NE RL05-0491-1059		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.04	0.12	0.21	-0.02	0.10	0.16
K-40	12.80	1.40	0.16	13.05	1.41	0.16
Co-58	-0.01	0.01	0.02	-0.02	0.01	0.02
Co-60	0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	0.00	0.03	0.04	-0.01	0.03	0.04
Sb-125	0.01	0.04	0.07	0.01	0.03	0.05
I-131	0.00	0.02	0.04	0.01	0.02	0.03
Cs-134	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	1.53	0.17	0.02	0.38	0.05	0.02
Eu-152	0.01	0.05	0.07	-0.03	0.04	0.06
Eu-154	0.00	0.03	0.06	0.01	0.03	0.05
Tl-208	0.17	0.03	0.02	0.18	0.03	0.02
Bi-212	0.61	0.25	0.26	0.64	0.25	0.23
Pb-212	0.61	0.07	0.04	0.57	0.06	0.04
Bi-214	1.00	0.08	0.04	1.19	0.09	0.04
Pb-214	1.06	0.09	0.05	1.23	0.09	0.04
Ac-228	0.64	0.07	0.07	0.61	0.07	0.07
Th-234	-0.93	2.00	0.79	1.90	1.97	0.70
U-235	0.14	0.04	0.04	0.09	0.11	0.04
Am-241	0.15	0.35	0.61	-0.32	0.32	0.53
Analytical Parameter	Grid 3-100 SW RL05-0492-1060			Grid 3-100 SE RL05-0493-1061		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.05	0.01	0.21	0.04	0.11	0.19
K-40	14.78	1.61	0.21	13.36	1.47	0.17
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	0.00	0.03	0.05	-0.01	0.03	0.05
Sb-125	-0.01	0.04	0.07	0.00	0.03	0.06
I-131	0.00	0.02	0.03	0.00	0.02	0.03
Cs-134	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.19	0.03	0.03	0.30	0.04	0.02
Eu-152	0.03	0.05	0.07	-0.04	0.05	0.07
Eu-154	0.01	0.04	0.06	-0.02	0.03	0.05
Tl-208	0.19	0.04	0.05	0.22	0.03	0.04
Bi-212	0.90	0.27	0.29	0.71	0.25	0.27
Pb-212	0.74	0.08	0.05	0.67	0.07	0.04
Bi-214	1.57	0.11	0.04	1.18	0.09	0.04
Pb-214	1.62	0.12	0.06	1.24	0.09	0.05
Ac-228	0.77	0.08	0.08	0.70	0.08	0.08
Th-234	1.58	2.28	0.89	1.75	2.17	0.77
U-235	0.10	0.13	0.05	0.05	0.12	0.05
Am-241	-0.46	0.39	0.64	-0.31	0.36	0.61

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 101

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-101 NW RL05-0494-1062			Grid 3-101 NE RL05-0495-1063		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.05	0.08	0.13	0.00	0.08	0.15
K-40	9.86	1.08	0.16	10.90	1.20	0.15
Co-58	-0.01	0.01	0.01	0.01	0.01	0.02
Co-60	0.00	0.01	0.02	-0.01	0.01	0.02
Zn-65	-0.02	0.02	0.03	0.00	0.03	0.04
Sb-125	-0.02	0.03	0.04	0.00	0.03	0.05
I-131	-0.01	0.02	0.03	0.01	0.02	0.03
Cs-134	0.00	0.01	0.01	0.00	0.01	0.01
Cs-137	0.05	0.02	0.02	0.07	0.02	0.02
Eu-152	0.01	0.04	0.05	-0.02	0.04	0.05
Eu-154	0.01	0.03	0.05	-0.01	0.03	0.05
Tl-208	0.15	0.03	0.03	0.15	0.03	0.02
Bi-212	0.50	0.22	0.20	0.50	0.28	-0.24
Pb-212	0.50	0.06	0.03	0.48	0.05	0.04
Bi-214	1.05	0.07	0.03	1.03	0.08	0.03
Pb-214	1.08	0.08	0.04	1.07	0.08	0.04
Ac-228	0.49	0.06	0.06	0.49	0.06	0.06
Th-234	0.50	1.57	0.62	-0.41	1.70	0.64
U-235	0.09	0.10	0.04	0.06	0.10	0.04
Am-241	0.07	0.28	0.49	0.15	0.31	0.53
Analytical Parameter	Grid 3-101 SW RL05-0496-1064			Grid 3-101 SE RL05-0497-1065		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.09	0.15	-0.12	0.09	0.15
K-40	10.50	1.16	0.15	12.30	1.34	0.15
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	-0.04	0.01	0.02	-0.01	0.01	0.02
Zn-65	-0.01	0.03	0.04	-0.01	0.03	0.04
Sb-125	0.03	0.03	0.05	0.04	0.03	0.05
I-131	0.00	0.02	0.03	0.00	0.02	0.03
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	0.01	0.01	0.02	0.04	0.01	0.02
Eu-152	0.05	0.04	0.05	0.02	0.04	0.06
Eu-154	-0.01	0.03	0.05	-0.01	0.03	0.05
Tl-208	0.15	0.03	0.04	0.16	0.02	0.02
Bi-212	0.50	0.24	0.21	0.83	0.23	-0.25
Pb-212	0.53	0.06	0.04	0.54	0.05	0.04
Bi-214	0.90	0.07	0.03	1.23	0.08	0.03
Pb-214	0.94	0.08	0.04	1.23	0.09	0.04
Ac-228	0.44	0.06	0.06	0.54	0.06	0.07
Th-234	0.91	1.71	0.68	-0.45	1.75	0.70
U-235	0.05	0.10	0.04	0.13	0.11	0.04
Am-241	-0.21	0.31	0.51	-0.16	0.32	0.54

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 102

Jn-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-102 NW RL05-0869			Grid 3-102 NE RL05-0870		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.04	0.10	0.17	0.06	0.08	0.15
K-40	13.30	1.44	0.18	11.00	1.22	0.16
Co-58	0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	-0.01	0.01	0.02
Zn-65	-0.01	0.03	0.04	-0.02	0.03	0.04
Sb-125	0.03	0.03	0.06	0.03	0.03	0.05
I-131	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-134	0.01	0.01	0.00	0.00	0.01	0.02
Cs-137	0.10	0.02	0.02	0.00	0.01	0.02
Eu-152	-0.02	0.05	0.06	0.00	0.04	0.06
Eu-154	-0.01	0.03	0.05	0.01	0.03	0.05
Tl-208	0.18	0.03	0.02	0.14	0.03	0.02
Bi-212	0.64	0.26	0.27	0.85	0.25	0.25
Pb-212	0.65	0.06	0.04	0.47	0.05	0.04
Bi-214	1.19	0.09	0.04	0.97	0.08	0.04
Pb-214	1.21	0.09	0.05	0.99	0.08	0.04
Ac-228	0.64	0.07	0.07	0.54	0.07	0.72
Th-234	-0.50	1.94	0.76	0.49	1.78	0.70
U-235	0.08	0.12	0.05	0.13	0.11	0.04
Am-241	-0.28	0.35	0.59	-0.14	0.32	0.54
Analytical Parameter	Grid 3-102 SW RL05-0871			Grid 3-102 SE RL05-0872		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.03	0.06	0.11	-0.01	0.07	0.12
K-40	8.40	0.01	0.01	9.10	1.00	0.11
Co-58	-0.01	0.01	0.01	-0.01	0.01	0.01
Co-60	0.00	0.01	0.01	0.01	0.01	0.02
Zn-65	-0.02	0.02	0.03	0.00	0.02	0.04
Sb-125	0.00	0.02	0.04	0.01	0.02	0.04
I-131	0.00	0.01	0.01	0.00	0.01	0.02
Cs-134	0.01	0.01	0.01	0.00	0.01	0.01
Cs-137	0.02	0.01	0.01	0.07	0.02	0.02
Eu-152	0.00	0.03	0.04	0.00	0.04	0.05
Eu-154	0.02	0.02	0.04	0.00	0.03	0.04
Tl-208	0.06	0.02	0.02	0.13	0.02	0.02
Bi-212	0.22	0.16	0.17	0.59	0.20	0.20
Pb-212	0.19	0.03	0.05	0.41	0.04	0.03
Bi-214	0.39	0.04	0.02	0.63	0.06	0.03
Pb-214	0.38	0.04	0.03	0.65	0.06	0.03
Ac-228	0.19	0.06	0.09	0.44	0.05	0.05
Th-234	-0.25	1.10	0.46	0.19	1.50	0.60
U-235	0.03	0.07	0.03	0.08	0.09	0.04
Am-241	-0.01	0.02	0.35	0.10	0.27	0.46

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 103

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-103 NW RL05-0897			Grid 3-103 NE RL05-0898		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.08	0.09	0.16	0.15	0.09	0.17
K-40	12.00	1.30	0.16	12.00	1.30	0.15
Co-58	-0.02	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	-0.01	0.01	0.02
Zn-65	-0.03	0.03	0.04	-0.02	0.03	0.04
Sb-125	0.01	0.03	0.05	-0.01	0.03	0.05
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	-0.01	0.01	0.02	0.02	0.01	0.02
Eu-152	0.01	0.04	0.06	-0.04	0.04	0.06
Eu-154	-0.03	0.03	0.05	0.00	0.03	0.06
Tl-208	0.19	0.03	0.02	0.17	0.27	0.02
Bi-212	0.54	0.26	0.24	0.57	0.29	0.26
Pb-212	0.57	0.06	0.04	0.59	0.06	0.04
Bi-214	1.20	0.09	0.04	0.96	0.08	0.03
Pb-214	1.20	0.09	0.04	1.00	0.08	0.04
Ac-228	0.57	0.07	0.07	0.58	0.07	0.07
Th-234	1.50	1.90	0.73	0.69	1.80	0.72
U-235	0.11	0.11	0.04	0.05	0.01	0.04
Am-241	-0.26	0.34	0.56	-0.49	0.33	0.53
Analytical Parameter	Grid 3-103 SW RL05-0899			Grid 3-103 SE RL05-0900		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.04	0.09	0.15	0.05	0.10	0.17
K-40	12.00	1.30	0.15	14.00	1.50	0.17
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	0.01	0.01	0.02	-0.01	0.01	0.02
Zn-65	-0.03	0.03	0.04	-0.02	0.03	0.04
Sb-125	0.01	0.03	0.05	0.00	0.03	0.06
I-131	0.01	0.01	0.02	0.00	0.01	0.02
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	0.03	0.01	0.02	0.16	0.03	0.02
Eu-152	-0.01	0.04	0.06	0.00	0.05	0.06
Eu-154	-0.01	0.03	0.05	0.02	0.03	0.06
Tl-208	0.16	0.03	0.02	0.21	0.03	0.02
Bi-212	0.52	0.21	0.22	0.75	0.26	0.27
Pb-212	0.50	0.05	0.04	0.74	0.07	0.04
Bi-214	1.10	0.08	0.03	1.20	0.09	0.04
Pb-214	1.10	0.09	0.04	1.20	0.10	0.05
Ac-228	0.53	0.06	0.07	0.68	0.07	0.06
Th-234	0.62	1.80	0.68	-1.10	2.00	0.77
U-235	0.03	0.01	0.04	0.01	0.11	0.05
Am-241	-0.20	0.31	0.53	0.02	0.34	0.59

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 104

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-104 NW RL05-0924 Result, (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-104 NE RL05-0925 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.13	0.18	0.25	0.13	0.17	0.33
K-40	11.00	1.40	0.25	13.00	1.60	0.39
Co-58	0.00	0.02	0.03	0.02	0.02	0.04
Co-60	0.01	0.02	0.04	-0.01	0.03	0.05
Zn-65	-0.01	0.05	0.08	-0.01	0.06	0.09
Sb-125	-0.03	0.05	0.09	0.02	0.06	0.11
I-131	0.00	0.02	0.04	-0.01	0.02	0.04
Cs-134	-0.01	0.02	0.03	0.01	0.02	0.04
Cs-137	0.02	0.02	0.04	-0.01	0.02	0.04
Eu-152	-0.01	0.08	0.12	-0.02	0.09	0.12
Eu-154	-0.02	0.06	0.09	-0.01	0.06	0.10
Tl-208	0.16	0.05	0.07	0.23	0.05	0.04
Bi-212	0.70	0.32	0.55	0.64	0.39	0.76
Pb-212	0.45	0.08	0.08	0.58	0.10	0.16
Bi-214	0.83	0.10	0.07	1.00	0.13	0.09
Pb-214	0.09	0.11	0.08	1.10	0.13	0.10
Ac-228	0.38	0.21	0.27	0.59	0.24	0.31
Th-234	0.52	3.00	1.40	3.00	3.80	1.50
U-235	0.02	0.20	0.08	0.09	0.22	0.09
Am-241	0.03	0.54	0.96	-0.30	0.64	1.10
Analytical Parameter	**Grid 3-104 SW RL05-0926 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-104 SE RL05-0927 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	-0.18	0.18	0.30	0.03	0.17	0.32
K-40	13.00	1.70	0.37	11.00	1.50	0.32
Co-58	-0.01	0.02	0.04	-0.01	0.02	0.03
Co-60	-0.01	0.02	0.04	0.00	0.02	0.04
Zn-65	-0.01	0.06	0.09	-0.02	0.05	0.08
Sb-125	0.05	0.06	0.11	-0.02	0.06	0.11
I-131	-0.02	0.02	0.04	0.00	0.02	0.04
Cs-134	0.02	0.02	0.04	-0.01	0.02	0.03
Cs-137	0.01	0.02	0.04	0.03	0.03	0.05
Eu-152	0.07	0.09	0.13	0.07	0.09	0.01
Eu-154	0.00	0.06	0.10	0.00	0.06	0.10
Tl-208	0.18	0.05	0.08	0.20	0.04	0.08
Bi-212	0.58	0.37	0.51	0.47	0.34	0.67
Pb-212	0.54	0.09	0.16	0.51	0.09	0.09
Bi-214	1.10	0.12	0.08	1.10	0.12	0.07
Pb-214	1.20	0.14	0.09	1.20	0.13	0.10
Ac-228	0.75	0.17	0.31	0.49	0.18	0.28
Th-234	-1.60	3.80	1.50	-1.80	3.60	1.50
U-235	0.21	0.22	0.09	0.11	0.21	0.09
Am-241	0.39	0.66	1.20	0.12	0.61	1.10

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 105
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-105 NW RL05-0936			Grid 3-105 NE RL05-0937		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.01	0.09	0.15	-0.02	0.09	0.16
K-40	13.00	1.40	0.14	14.00	1.50	0.15
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	0.01	0.03	0.04	0.00	0.03	0.04
Sb-125	0.01	0.03	0.05	0.01	0.03	0.05
I-131	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-134	0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	0.05	0.02	0.02	0.07	0.02	0.02
Eu-152	0.01	0.04	0.06	-0.04	0.04	0.06
Eu-154	0.00	0.03	0.05	0.03	0.03	0.05
Tl-208	0.20	0.03	0.02	0.22	0.03	0.02
Bi-212	0.43	0.18	0.32	0.81	0.31	0.27
Pb-212	0.59	0.06	0.04	0.66	0.06	0.04
Bi-214	0.92	0.08	0.03	1.10	0.08	0.04
Pb-214	1.00	0.08	0.04	1.10	0.09	0.04
Ac-228	0.58	0.07	0.07	0.59	0.07	0.07
Th-234	0.06	1.70	0.69	0.82	1.80	0.73
U-235	0.12	0.11	0.04	0.10	0.11	0.04
Am-241	-0.25	0.31	0.51	-0.26	0.32	0.54
Analytical Parameter	Grid 3-105 SW RL05-0938			Grid 3-105 SE RL05-0939		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.00	0.09	0.16	0.11	0.09	0.16
K-40	13.00	1.50	0.15	13.00	1.40	0.15
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	-0.01	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.02	0.03	0.04	-0.02	0.03	0.04
Sb-125	0.00	0.03	0.05	0.01	0.03	0.05
I-131	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-134	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.03	0.02	0.02	0.04	0.01	0.02
Eu-152	-0.04	0.04	0.06	-0.01	0.04	0.06
Eu-154	-0.03	0.03	0.05	0.00	0.03	0.05
Tl-208	0.17	0.03	0.02	0.17	0.03	0.02
Bi-212	0.58	0.25	0.27	0.74	0.23	0.22
Pb-212	0.65	0.06	0.04	0.54	0.06	0.04
Bi-214	0.98	0.08	0.04	0.91	0.07	0.03
Pb-214	1.00	0.08	0.04	0.89	0.07	0.04
Ac-228	0.66	0.07	0.07	0.56	0.07	0.06
Th-234	0.40	1.80	0.71	0.36	1.70	0.70
U-235	0.09	0.11	0.04	0.10	0.10	0.04
Am-241	-0.08	0.32	0.55	-0.22	0.31	0.51

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 106

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-106 NW RL05-0947 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-106 NE RL05-0948 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.03	0.09	0.15	-0.01	0.20	0.35
K-40	13.00	1.40	0.18	12.00	1.60	0.42
Co-58	-0.01	0.10	0.02	-0.01	0.02	0.04
Co-60	0.00	0.01	0.02	0.02	0.02	0.05
Zn-65	-0.04	0.03	0.04	0.01	0.05	0.08
Sb-125	0.00	0.03	0.05	-0.01	0.06	0.11
I-131	-0.01	0.01	0.02	0.00	0.03	0.05
Cs-134	0.00	0.01	0.02	0.01	0.02	0.04
Cs-137	0.03	0.02	0.02	0.11	0.04	0.04
Eu-152	0.03	0.04	0.06	0.02	0.09	0.13
Eu-154	0.00	0.03	0.05	-0.01	0.06	0.11
Tl-208	0.15	0.03	0.02	0.18	0.05	0.04
Bi-212	0.62	0.25	0.24	0.65	0.44	0.46
Pb-212	0.56	0.07	0.04	0.64	0.09	0.09
Bi-214	1.10	0.09	0.04	1.20	0.13	0.07
Pb-214	1.20	0.09	0.04	1.10	0.13	0.10
Ac-228	0.63	0.07	0.07	0.68	0.19	0.32
Th-234	0.44	1.80	0.73	-0.95	3.90	1.50
U-235	0.09	0.11	0.04	-0.03	0.22	0.09
Am-241	-0.27	0.33	0.54	0.07	0.68	1.20

Analytical Parameter	Grid 3-106 SW RL05-0949 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-106 SE RL05-0950 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.13	0.19	0.35	0.10	0.20	0.36
K-40	11.00	1.40	0.34	12.00	1.60	0.34
Co-58	-0.03	0.02	0.03	-0.02	0.02	0.03
Co-60	0.00	0.02	0.04	0.01	0.02	0.05
Zn-65	0.00	0.04	0.07	-0.02	0.06	0.09
Sb-125	-0.05	0.06	0.09	-0.01	0.07	0.12
I-131	0.01	0.02	0.04	0.02	0.03	0.05
Cs-134	0.00	0.02	0.03	0.00	0.03	0.04
Cs-137	0.06	0.03	0.05	0.01	0.03	0.05
Eu-152	0.04	0.08	0.12	-0.02	0.09	0.01
Eu-154	0.04	0.06	0.10	0.00	0.07	0.11
Tl-208	0.17	0.04	0.03	0.19	0.05	0.05
Bi-212	0.46	0.41	0.53	0.74	0.53	0.61
Pb-212	0.46	0.08	0.15	0.74	0.11	0.09
Bi-214	1.10	0.12	0.04	1.20	0.13	0.08
Pb-214	1.20	0.13	0.08	1.30	0.14	0.09
Ac-228	0.62	0.15	0.28	0.76	0.22	0.34
Th-234	1.60	3.40	1.50	-0.84	3.80	1.50
U-235	0.10	0.20	0.09	0.02	0.23	0.09
Am-241	-0.07	0.59	1.00	-0.39	0.68	1.10

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 110

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-110 NW			Grid 3-110 NE RL05-0481-1049		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	-0.11	0.25	0.43
K-40	N/A	N/A	N/A	12.50	1.74	0.30
Co-58	N/A	N/A	N/A	-0.01	0.03	0.05
Co-60	N/A	N/A	N/A	0.00	0.03	0.05
Zn-65	N/A	N/A	N/A	-0.07	0.07	0.09
Sb-125	N/A	N/A	N/A	0.10	0.09	0.17
I-131	N/A	N/A	N/A	0.01	0.05	0.08
Cs-134	N/A	N/A	N/A	-0.02	0.03	0.04
Cs-137	N/A	N/A	N/A	0.72	0.11	0.05
Eu-152	N/A	N/A	N/A	-0.05	0.10	0.14
Eu-154	N/A	N/A	N/A	0.00	0.07	0.12
Tl-208	N/A	N/A	N/A	0.18	0.05	0.09
Bi-212	N/A	N/A	N/A	0.25	0.40	0.76
Pb-212	N/A	N/A	N/A	0.56	0.12	0.19
Bi-214	N/A	N/A	N/A	0.96	0.14	0.09
Pb-214	N/A	N/A	N/A	1.15	0.16	0.11
Ac-228	N/A	N/A	N/A	0.64	0.18	0.35
Th-234	N/A	N/A	N/A	-0.67	4.48	1.65
U-235	N/A	N/A	N/A	0.10	0.25	0.11
Am-241	N/A	N/A	N/A	0.54	0.81	1.48
Analytical Parameter	Grid 3-110 SW			Grid 3-110 SE		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	N/A	N/A	N/A
K-40	N/A	N/A	N/A	N/A	N/A	N/A
Co-58	N/A	N/A	N/A	N/A	N/A	N/A
Co-60	N/A	N/A	N/A	N/A	N/A	N/A
Zn-65	N/A	N/A	N/A	N/A	N/A	N/A
Sb-125	N/A	N/A	N/A	N/A	N/A	N/A
I-131	N/A	N/A	N/A	N/A	N/A	N/A
Cs-134	N/A	N/A	N/A	N/A	N/A	N/A
Cs-137	N/A	N/A	N/A	N/A	N/A	N/A
Eu-152	N/A	N/A	N/A	N/A	N/A	N/A
Eu-154	N/A	N/A	N/A	N/A	N/A	N/A
Tl-208	N/A	N/A	N/A	N/A	N/A	N/A
Bi-212	N/A	N/A	N/A	N/A	N/A	N/A
Pb-212	N/A	N/A	N/A	N/A	N/A	N/A
Bi-214	N/A	N/A	N/A	N/A	N/A	N/A
Pb-214	N/A	N/A	N/A	N/A	N/A	N/A
Ac-228	N/A	N/A	N/A	N/A	N/A	N/A
Th-234	N/A	N/A	N/A	N/A	N/A	N/A
U-235	N/A	N/A	N/A	N/A	N/A	N/A
Am-241	N/A	N/A	N/A	N/A	N/A	N/A

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 111
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-111 NW RL05-0482-1050			Grid 3-111 NE RL05-0483-1051		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.06	0.18	0.32	-0.08	0.23	0.40
K-40	11.10	1.49	0.34	14.51	1.93	0.42
Co-58	-0.02	0.02	0.03	-0.01	0.03	0.04
Co-60	0.01	0.02	0.04	0.01	0.03	0.06
Zn-65	-0.01	0.05	0.08	0.03	0.07	0.12
Sb-125	0.04	0.06	0.11	0.08	0.07	0.15
I-131	0.00	0.03	0.06	0.00	0.04	0.07
Cs-134	0.00	0.02	0.03	0.01	0.03	0.05
Cs-137	0.07	0.03	0.04	0.09	0.06	0.05
EU-152	0.10	0.09	0.12	0.09	0.11	0.16
Eu-154	-0.02	0.06	0.10	0.08	0.08	0.14
Tl-208	0.16	0.05	0.08	0.22	0.06	0.10
Bi-212	0.57	0.34	0.67	0.39	0.44	0.84
Pb-212	0.54	0.09	0.16	0.72	0.12	0.20
Bi-214	1.02	0.11	0.07	1.30	0.15	0.10
Pb-214	1.05	0.12	0.09	1.40	0.16	0.11
Ac-228	0.69	0.17	0.31	0.66	0.23	0.38
Th-234	-1.22	3.56	1.35	1.54	4.37	1.76
U-235	-0.05	0.21	0.08	0.25	0.27	0.11
Am-241	0.15	0.62	1.10	-0.38	0.75	1.29
Analytical Parameter	Grid 3-111 SW			Grid 3-111 SE		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	N/A	N/A	N/A
K-40	N/A	N/A	N/A	N/A	N/A	N/A
Co-58	N/A	N/A	N/A	N/A	N/A	N/A
Co-60	N/A	N/A	N/A	N/A	N/A	N/A
Zn-65	N/A	N/A	N/A	N/A	N/A	N/A
Sb-125	N/A	N/A	N/A	N/A	N/A	N/A
I-131	N/A	N/A	N/A	N/A	N/A	N/A
Cs-134	N/A	N/A	N/A	N/A	N/A	N/A
Cs-137	N/A	N/A	N/A	N/A	N/A	N/A
Eu-152	N/A	N/A	N/A	N/A	N/A	N/A
Eu-154	N/A	N/A	N/A	N/A	N/A	N/A
Tl-208	N/A	N/A	N/A	N/A	N/A	N/A
Bi-212	N/A	N/A	N/A	N/A	N/A	N/A
Pb-212	N/A	N/A	N/A	N/A	N/A	N/A
Bi-214	N/A	N/A	N/A	N/A	N/A	N/A
Pb-214	N/A	N/A	N/A	N/A	N/A	N/A
Ac-228	N/A	N/A	N/A	N/A	N/A	N/A
Th-234	N/A	N/A	N/A	N/A	N/A	N/A
U-235	N/A	N/A	N/A	N/A	N/A	N/A
Am-241	N/A	N/A	N/A	N/A	N/A	N/A

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5
Grid 3 - 112
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-112 NW RL05-1308 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Grid 3-112 NE RL05-1309 Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.47	0.28	0.18	0.11	0.10	0.18
K-40	14.00	1.52	0.17	12.80	1.41	0.17
Co-58	-0.01	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.01	0.03	0.04	0.01	0.03	0.04
Sb-125	0.03	0.04	0.07	0.02	0.03	0.06
I-131	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-134	0.00	0.01	0.02	0.00	0.01	0.02
Cs-137	0.95	0.11	0.02	0.26	0.04	0.02
Eu-152	-0.02	0.05	0.07	0.02	0.05	0.06
Eu-154	-0.04	0.03	0.06	0.04	0.03	0.06
Tl-208	0.19	0.03	0.02	0.19	0.03	0.02
Bi-212	0.83	0.03	0.25	0.54	0.33	0.27
Pb-212	0.66	0.07	0.05	0.67	0.06	0.04
Bi-214	1.01	0.08	0.04	1.05	0.08	0.04
Pb-214	1.08	0.09	0.05	1.10	0.09	0.05
Ac-228	0.67	0.08	0.07	0.64	0.08	0.07
Th-234	0.43	2.00	0.83	0.87	1.97	0.75
U-235	0.12	0.12	0.05	0.10	0.12	0.05
Am-241	-0.17	0.36	0.62	-0.10	0.35	0.60
Analytical Parameter	**Grid 3-112 SW RL05-1310 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**	**Grid 3-112 SE RL05-1311 Result (pCi/g)**	**2 σ (pCi/g)**	**MDA (pCi/g)**
Be-7	0.13	0.13	0.20	0.09	0.11	0.19
K-40	14.30	1.56	0.16	12.10	1.34	0.15
Co-58	-0.01	0.01	0.02	0.00	0.01	0.02
Co-60	0.00	0.01	0.02	0.01	0.01	0.02
Zn-65	-0.03	0.03	0.05	-0.06	0.04	0.05
Sb-125	-0.01	0.04	0.07	0.04	0.04	0.07
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	0.00	0.01	0.02	-0.01	0.01	0.02
Cs-137	0.93	0.11	0.03	0.72	0.09	0.02
Eu-152	0.00	0.05	0.08	0.02	0.05	0.07
Eu-154	-0.01	0.04	0.06	0.02	0.04	0.06
Tl-208	0.21	0.03	0.02	0.17	0.03	0.02
Bi-212	0.76	0.32	0.27	0.60	0.27	0.28
Pb-212	0.70	0.07	0.05	0.56	0.07	0.05
Bi-214	1.06	0.09	0.04	0.93	0.08	0.04
Pb-214	1.16	0.09	0.05	1.04	0.09	0.05
Ac-228	0.71	0.08	0.08	0.64	0.08	0.07
Th-234	-0.88	2.04	0.83	0.06	2.00	0.79
U-235	0.03	0.13	0.05	0.08	0.12	0.05
Am-241	0.03	0.18	0.65	0.08	0.37	0.64

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 113

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-113 NW RL05-0916			Grid 3-113 NE RL05-0917		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.03	0.18	0.32	-0.05	0.17	0.30
K-40	13.00	1.70	0.44	12.00	1.50	0.35
Co-58	-0.02	0.02	0.04	-0.01	0.02	0.04
Co-60	0.00	0.02	0.04	0.02	0.02	0.05
Zn-65	-0.02	0.06	0.10	0.01	0.05	0.08
Sb-125	-0.05	0.06	0.10	0.02	0.06	0.10
I-131	-0.01	0.02	0.04	-0.01	0.02	0.04
Cs-134	-0.01	0.02	0.03	0.00	0.02	0.03
Cs-137	0.10	0.05	0.04	0.13	0.05	0.04
Eu-152	-0.01	0.09	0.12	0.00	0.09	0.11
Eu-154	0.05	0.06	0.11	-0.02	0.06	0.10
Tl-208	0.22	0.06	0.09	1.70	0.04	0.08
Bi-212	0.69	0.52	0.58	0.58	0.41	0.53
Pb-212	0.65	0.11	0.17	0.49	0.08	0.09
Bi-214	1.20	0.13	0.07	1.30	0.12	0.07
Pb-214	1.30	0.13	0.10	1.10	0.13	0.08
Ac-228	0.56	0.17	0.29	0.44	0.17	0.26
Th-234	-0.69	3.60	1.50	-0.26	3.50	1.50
U-235	0.02	0.23	0.09	-0.01	0.21	0.09
Am-241	-0.43	0.68	1.10	-0.04	0.62	1.10
	Grid 3-113 SW RL05-0918			Grid 3-113 SE RL05-0919		
Analytical Parameter	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.03	0.02	0.03	-0.07	0.20	0.35
K-40	13.00	1.80	0.35	15.00	1.90	0.45
Co-58	-0.01	0.03	0.04	-0.02	0.02	0.04
Co-60	0.03	0.03	0.06	0.01	0.02	0.04
Zn-65	-0.03	0.06	0.09	-0.04	0.07	0.10
Sb-125	-0.05	0.07	0.11	-0.03	0.07	0.11
I-131	0.01	0.02	0.05	0.01	0.02	0.04
Cs-134	0.02	0.02	0.04	0.00	0.02	0.04
Cs-137	0.06	0.04	0.07	0.06	0.05	0.05
Eu-152	-0.08	0.09	0.13	-0.08	0.09	0.14
Eu-154	-0.05	0.06	0.10	-0.05	0.07	0.14
Tl-208	0.21	0.06	0.09	0.22	0.05	0.09
Bi-212	0.18	0.48	0.75	0.46	0.55	0.47
Pb-212	0.64	0.11	0.18	0.81	0.13	0.19
Bi-214	1.20	0.13	0.07	1.40	0.14	0.08
Pb-214	1.20	0.14	0.10	1.60	0.15	0.10
Ac-228	0.74	0.20	0.33	0.81	0.21	0.34
Th-234	3.30	4.20	1.60	-0.75	3.90	1.60
U-235	0.06	0.23	0.10	0.14	0.24	0.10
Am-241	-0.10	0.74	1.30	0.03	0.70	1.20

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 114

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-114 NW RL05-0920			Grid 3-114 NE RL05-0921		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.03	0.15	0.26	0.04	0.16	0.29
K-40	12.00	1.50	0.34	10.00	1.40	0.32
Co-58	-0.01	0.02	0.03	-0.02	0.02	0.03
Co-60	0.38	0.02	0.04	0.00	0.02	0.04
Zn-65	0.00	0.05	0.07	0.01	0.05	0.08
Sb-125	0.03	0.06	0.10	-0.02	0.06	0.10
I-131	-0.02	0.02	0.03	-0.01	0.02	0.04
Cs-134	-0.01	0.02	0.03	0.00	0.02	0.03
Cs-137	0.00	0.02	0.04	0.09	0.04	0.04
Eu-152	-0.03	0.08	0.11	-0.07	0.08	0.12
Eu-154	-0.01	0.06	0.09	0.03	0.06	0.10
Tl-208	0.14	0.04	0.07	0.17	0.04	0.07
Bi-212	0.70	0.33	0.51	0.44	0.47	0.59
Pb-212	0.40	0.08	0.10	0.45	0.08	0.14
Bi-214	0.96	0.11	0.07	0.97	0.11	0.07
Pb-214	1.00	0.12	0.08	1.10	0.12	0.09
Ac-228	0.40	0.19	0.27	0.54	0.15	0.28
Th-234	1.10	3.30	1.30	3.10	3.80	1.40
U-235	-0.03	0.19	0.08	0.19	0.20	0.08
Am-241	-0.88	0.63	1.00	0.09	0.60	1.10
	Grid 3-114 SW RL05-0922			Grid 3-114 SE RL05-0923		
Analytical Parameter	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.20	0.36	0.05	15.00	0.28
K-40	14.00	1.80	0.36	7.00	1.00	0.36
Co-58	-0.01	0.02	0.04	0.00	0.01	0.02
Co-60	0.00	0.03	0.05	-0.02	0.02	0.03
Zn-65	-0.09	0.07	0.08	0.00	0.05	0.07
Sb-125	-0.03	0.06	0.11	0.02	0.05	0.09
I-131	-0.02	0.03	0.04	0.00	0.02	0.04
Cs-134	0.01	0.02	0.04	0.00	0.02	0.03
Cs-137	0.08	0.05	0.04	0.08	0.04	0.03
Eu-152	0.02	0.10	0.13	-0.02	0.07	0.11
Eu-154	0.06	0.07	0.01	-0.01	0.05	0.09
Tl-208	0.22	0.05	0.05	0.12	0.04	0.06
Bi-212	0.93	0.56	0.55	0.63	0.30	0.54
Pb-212	0.67	0.10	0.09	0.36	0.07	0.12
Bi-214	1.40	0.15	0.09	0.88	0.10	0.04
Pb-214	1.40	0.13	0.14	0.99	0.11	0.07
Ac-228	0.83	0.13	0.14	0.31	0.14	0.23
Th-234	-0.49	3.90	1.60	0.60	3.00	1.20
U-235	0.15	0.24	0.10	0.10	0.18	0.07
Am-241	-0.11	0.70	1.20	-0.05	0.55	0.96

N/A - Not Applicable, grid location is not included within the scope of this report

Table 5
Grid 3 - 115
JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-115 NW RL05-0940			Grid 3-115 NE RL05-0941		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	-0.01	0.09	0.15	-0.04	0.09	0.16
K-40	11.00	1.20	0.16	15.00	1.60	0.16
Co-58	0.00	0.01	0.02	-0.01	0.01	0.02
Co-60	0.00	0.01	0.02	0.00	0.01	0.02
Zn-65	-0.02	0.03	0.04	0.00	0.03	0.05
Sb-125	-0.01	0.03	0.05	0.02	0.04	0.06
I-131	0.00	0.01	0.02	0.00	0.01	0.02
Cs-134	-0.01	0.01	0.02	0.00	0.01	0.02
Cs-137	0.07	0.02	0.02	0.00	0.01	0.02
Eu-152	0.02	0.04	0.06	0.00	0.05	0.07
Eu-154	0.00	0.03	0.05	-0.01	0.03	0.06
Tl-208	0.16	0.03	0.02	0.21	0.03	0.02
Bi-212	0.48	0.25	0.23	0.88	0.28	0.27
Pb-212	0.53	0.05	0.04	0.82	0.08	0.04
Bi-214	1.00	0.08	0.04	1.50	0.10	0.04
Pb-214	1.00	0.08	0.04	1.50	0.11	0.05
Ac-228	0.54	0.07	0.07	0.73	0.08	0.07
Th-234	0.65	1.80	0.69	1.80	2.20	0.81
U-235	0.13	0.10	0.04	0.00	0.12	0.05
Am-241	-0.14	0.32	0.54	-0.34	0.37	0.61
Analytical Parameter	Grid 3-115 SW			Grid 3-115 SE		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	N/A	N/A	N/A
K-40	N/A	N/A	N/A	N/A	N/A	N/A
Co-58	N/A	N/A	N/A	N/A	N/A	N/A
Co-60	N/A	N/A	N/A	N/A	N/A	N/A
Zn-65	N/A	N/A	N/A	N/A	N/A	N/A
Sb-125	N/A	N/A	N/A	N/A	N/A	N/A
I-131	N/A	N/A	N/A	N/A	N/A	N/A
Cs-134	N/A	N/A	N/A	N/A	N/A	N/A
Cs-137	N/A	N/A	N/A	N/A	N/A	N/A
Eu-152	N/A	N/A	N/A	N/A	N/A	N/A
Eu-154	N/A	N/A	N/A	N/A	N/A	N/A
Tl-208	N/A	N/A	N/A	N/A	N/A	N/A
Bi-212	N/A	N/A	N/A	N/A	N/A	N/A
Pb-212	N/A	N/A	N/A	N/A	N/A	N/A
Bi-214	N/A	N/A	N/A	N/A	N/A	N/A
Pb-214	N/A	N/A	N/A	N/A	N/A	N/A
Ac-228	N/A	N/A	N/A	N/A	N/A	N/A
Th-234	N/A	N/A	N/A	N/A	N/A	N/A
U-235	N/A	N/A	N/A	N/A	N/A	N/A
Am-241	N/A	N/A	N/A	N/A	N/A	N/A

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 5

Grid 3 - 116

JN-3 Foundation Area Soil Analytical Results

Analytical Parameter	Grid 3-116 NW RL05-0942			Grid 3-116 NE		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	0.03	0.09	0.16	N/A	N/A	N/A
K-40	12.00	1.30	0.19	N/A	N/A	N/A
Co-58	0.00	0.01	0.02	N/A	N/A	N/A
Co-60	0.00	0.01	0.02	N/A	N/A	N/A
Zn-65	-0.01	0.03	0.04	N/A	N/A	N/A
Sb-125	-0.02	0.03	0.05	N/A	N/A	N/A
I-131	0.01	0.01	0.02	N/A	N/A	N/A
Cs-134	-0.01	0.01	0.02	N/A	N/A	N/A
Cs-137	0.03	0.02	0.02	N/A	N/A	N/A
Eu-152	0.00	0.04	0.06	N/A	N/A	N/A
Eu-154	-0.02	0.03	0.05	N/A	N/A	N/A
Tl-208	0.17	0.03	0.02	N/A	N/A	N/A
Bi-212	0.64	0.24	0.24	N/A	N/A	N/A
Pb-212	0.64	0.06	0.04	N/A	N/A	N/A
Bi-214	1.10	0.08	0.04	N/A	N/A	N/A
Pb-214	1.20	0.09	0.04	N/A	N/A	N/A
Ac-228	0.58	0.06	0.07	N/A	N/A	N/A
Th-234	0.75	1.80	0.72	N/A	N/A	N/A
U-235	0.06	0.11	0.04	N/A	N/A	N/A
Am-241	-0.28	0.31	0.52	N/A	N/A	N/A

Analytical Parameter	Grid 3-116 SW			Grid 3-116 SE		
	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)	Result (pCi/g)	2 σ (pCi/g)	MDA (pCi/g)
Be-7	N/A	N/A	N/A	N/A	N/A	N/A
K-40	N/A	N/A	N/A	N/A	N/A	N/A
Co-58	N/A	N/A	N/A	N/A	N/A	N/A
Co-60	N/A	N/A	N/A	N/A	N/A	N/A
Zn-65	N/A	N/A	N/A	N/A	N/A	N/A
Sb-125	N/A	N/A	N/A	N/A	N/A	N/A
I-131	N/A	N/A	N/A	N/A	N/A	N/A
Cs-134	N/A	N/A	N/A	N/A	N/A	N/A
Cs-137	N/A	N/A	N/A	N/A	N/A	N/A
Eu-152	N/A	N/A	N/A	N/A	N/A	N/A
Eu-154	N/A	N/A	N/A	N/A	N/A	N/A
Tl-208	N/A	N/A	N/A	N/A	N/A	N/A
Bi-212	N/A	N/A	N/A	N/A	N/A	N/A
Pb-212	N/A	N/A	N/A	N/A	N/A	N/A
Bi-214	N/A	N/A	N/A	N/A	N/A	N/A
Pb-214	N/A	N/A	N/A	N/A	N/A	N/A
Ac-228	N/A	N/A	N/A	N/A	N/A	N/A
Th-234	N/A	N/A	N/A	N/A	N/A	N/A
U-235	N/A	N/A	N/A	N/A	N/A	N/A
Am-241	N/A	N/A	N/A	N/A	N/A	N/A

N/A - Not Applicable, grid location is not included within the scope of this report.

Table 6
JN-3 Foundation Area Overburden Sample Results

Sample ID	Location	Cs-137 Content (Results in pCi/g)
RL05-0019-0785	Ramp-JN3	1.92E-02(ND)
RL05-0018-0784	Ramp-JN3	1.33E-01
RL05-0054-0796	S.Wall-JN3	4.61E-02
RL05-0055-0797	S.Wall-JN3	2.25E-02(ND)
RL05-0057-0798	S.Wall-JN3	3.33E-02
RL05-0058-0799	S.Wall-JN3	1.85E-02
RL05-0059-0800	S.Wall-JN3	2.22E-02(ND)
RL05-0060-0801	S.Wall-JN3	3.46E-02
RL05-0061-0802	S.Wall-JN3	6.89E-02
RL05-0062-0803	S.Wall-JN3	1.85E-02(ND)
RL05-0063-0804	S.Wall-JN3	1.97E-02(ND)
RL05-0064-0805	S.Wall-JN3	2.25E-02(ND)
RL05-0065-0806	S.Wall-JN3	1.85E-02
RL05-0066-0807	S.Wall-JN3	3.62E-02
RL05-0071-0810	N.Wall-JN3	4.30E-02(ND)
RL05-0072-0811	N.Wall-JN3	9.36E-02
RL05-0077-0812	WST-W.Wall	2.53E-02(ND)
RL05-0078-0813	WST-W.Wall	2.68E-02
RL05-0079-0814	WST-W.Wall	1.77E-01
RL05-0080-0815	WST-W.Wall	7.60E-02
RL05-0148-0876	E.Wall - Grid 309	3.80E-02
RL05-0149-0877	E.Wall - Grid 309	3.32E-02(ND)
RL05-0167-0881	WST-E.Wall	2.16E-02(ND)
RL05-0168-0882	WST-E.Wall	4.40E-02
RL05-0169-0883	WST-E.Wall	3.33E-02(ND)
RL05-0170-0884	WST-E.Wall	5.48E-02
RL05-0173-0885	E.Wall-JN3	3.87E-02
RL05-0174-0886	E.Wall-JN3	2.03E-02(ND)
RL05-0175-0887	WST-E.Wall	2.70E-02(ND)
RL05-0176-0888	WST-E.Wall	2.81E-02(ND)
RL05-0210-0893	ASW	3.28E-02(ND)
RL05-0211-0894	ASW	1.05E-01
RL05-0212-0895	ASW	5.29E-01
RL05-0213-0896	ASW	2.36E-02
RL05-0214-0897	ASW	1.90E-02(ND)
RL05-0215-0898	ASW	1.90E-02(ND)
RL05-0223-0903	W.Wall Footer-JN3	1.16E-01
RL05-0224-0904	W.Wall Footer-JN3	3.75E-02(ND)
RL05-0225-0905	W.Wall Footer-JN3	1.09E-01
RL05-0226-0906	W.Wall Footer-JN3	6.56E-02
RL05-0232-0907	W. Footer Pile - JN3	1.75E-01
RL05-0233-0908	W. Footer Pile - JN3	3.83E-01
RL05-0234-0909	W. Footer Pile - JN3	1.87E-02(ND)
RL05-0235-0910	W. Footer Pile - JN3	2.40E-02(ND)

Table 7

EXCAVATION OVERBURDEN COMPARISON VALUE CALCULATION

Area/Volume ID	Number of Data Points	t95% (n-1) Value from Table B-1 of NUREG/CR-5849
JN-3 Overburden	44	1.684

	Sample Number	Cs-137 Result (pCi/g)
1	RL05-0019-0785	1.92E-02
2	RL05-0018-0784	1.33E-01
3	RL05-0054-0796	4.61E-02
4	RL05-0055-0797	2.25E-02
5	RL05-0057-0798	3.33E-02
6	RL05-0058-0799	1.85E-02
7	RL05-0059-0800	2.22E-02
8	RL05-0060-0801	3.46E-02
9	RL05-0061-0802	6.89E-02
10	RL05-0062-0803	1.85E-02
11	RL05-0063-0804	1.97E-02
12	RL05-0064-0805	2.25E-02
13	RL05-0065-0806	1.85E-02
14	RL05-0066-0807	3.62E-02
15	RL05-0071-0810	4.30E-02
16	RL05-0072-0811	9.36E-02
17	RL05-0077-0812	2.53E-02
18	RL05-0078-0813	2.68E-02
19	RL05-0079-0814	1.77E-01
20	RL05-0080-0815	7.60E-02
21	RL05-0148-0876	3.80E-02
22	RL05-0149-0877	3.32E-02
23	RL05-0167-0881	2.16E-02
24	RL05-0168-0882	4.40E-02
25	RL05-0169-0883	3.33E-02
26	RL05-0170-0884	5.48E-02
27	RL05-0173-0885	3.87E-02
28	RL05-0174-0886	2.03E-02
29	RL05-0175-0887	2.70E-02
30	RL05-0176-0888	2.81E-02
31	RL05-0210-0893	3.28E-02
32	RL05-0211-0894	1.05E-01
33	RL05-0212-0895	5.29E-01
34	RL05-0213-0896	2.36E-02
35	RL05-0214-0897	1.90E-02
36	RL05-0215-0898	1.90E-02

Table 7

EXCAVATION OVERBURDEN COMPARISON VALUE CALCULATION

Area/Volume ID	Number of Data Points	t95% (n-1) Value from Table B-1 of *NUREG/CR-5849*
JN-3 Overburden	44	1.684

	Sample Number	Cs-137 Result (pCi/g)
37	RL05-0223-0903	1.16E-01
38	RL05-0224-0904	3.75E-02
39	RL05-0225-0905	1.09E-01
40	RL05-0226-0906	6.56E-02
41	RL05-0232-0907	1.75E-01
42	RL05-0233-0908	3.83E-01
43	RL05-0234-0909	1.87E-02
44	RL05-0235-0910	2.40E-02

Comparison Value Equation $\mu_a = \bar{x} + t_{1-\alpha,df}\frac{s_x}{\sqrt{n}}$

Average
0.07

Standard Deviation
0.10

Comparison Value
0.09

Cleanup Criteria
11

Comparison < Criteria
Yes

Table 8

JN-3 Foundation Area Walkover Scan Results

						23.1 21.8 3-038 22.8 24.3	21.5 23.1 3-039 22.9 23.9	21.7 23.4 3-040 21.1 22.8	22.8 24.3 3-041 23.4 24.2
						23.4 22.4 3-051 24.1 24.3	22.9 22.6 3-052 23.4 22.5	21.9 22.7 3-053 23.4 23.5	25 22.6 3-054 23.7 24
13.3 15.2 3-058 14.8	16.8 17.5 3-059 16.5 16.5	18.3 15.8 3-060 16.3 17.4	16 15.8 3-061 16.4 16.1	16 15.2 3-062 17.8 15	19.5 19.8 3-063 19.8 20.5	21.3 22.6 3-064 21.8 21.4	20 19.2 3-065 18.7 19.7	19.9 20.1 3-066 21.3 22.1	24.9 27.7 3-067 27.4 27.3
16 3-071 15.4	16.7 16.5 3-072 14.7 15.1	16.1 16.2 3-073 17 16.7	16.7 15.8 3-074 15.3 15.9	15.2 17 3-075 18.4 18.8	19.9 20.9 3-076 20.7 21.5	20.3 19.7 3-077 20.1 19.3	20.3 22.7 3-078 21.1 22.2	19.5 23.5 3-079 21.3 23.1	29.9 32 3-080 31.9 28.9
13.5 3-084 14	15.5 16.7 3-085 15.4 15.9	16.3 16.6 3-086 17.2 17.6	16.8 13.7 3-087 17.8 15.1	17.5 17.1 3-088 17.6 16.8	20.6 20.7 3-089 21 20.7	18.3 19.1 3-090 18.7 18.3	20 18.7 3-091 19.3 19.3	24.5 25.2 3-092 25.7 24.4	25.7 24.6 3-093 28.2 27.6
12.7 3-097	14.2 15.3 3-098	15.8 14.7 3-099 14.4	18.6 14.6 3-100 13.8 16.3	15.9 16.5 3-101 17.4 16.9	19.6 21.3 3-102 19.4 19.4	17.9 18.1 3-103 18.9 20.1	18.7 19.9 3-104 19.3 16.9	19.9 20.2 3-105 19.8 20.1	26.2 29.7 3-106 30 29.4
			14.2 3-110	16.1 17.4 3-111	20.7 21.8 3-112 19.5 20.3	19.4 18.9 3-113 19.3 20	23.1 22.3 3-114 21 21.7	26.8 28.6 3-115 25.3	28.2 3-116

Results in Kcpm

Table 9
Routine Plant Perimeter Surveys

Routine Plant Perimeter Surveys

Date	Mar/Apr 05					
			Reference Survey #			
		micro rem/hr	HPS #	J-28473	J-28553	J-28588
				J-28613	J-28791	J-28936
Readings in micro rem/hr.		103		J-28975		
		7				
		20				
		30				
		20				
		30				
		130				
		10				
		10				
		10				
		10				
		10				
		10				
		30				
		60				
	Avg.	33				
	SD	37				