

ADDENDUM TO OYSTER CREEK NUCLEAR GENERATING STATION SITE RADIOLOGICAL CHARACTERIZATION REPORT

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ACRONYMS AND ABBREVIATIONS

AC	Assessment Criteria
CFR	Code of Federal Regulations
CoC	Chain of Custody
cm ²	square centimeters
cpm	counts per minute
CST	Condensate Storage Tank
D&D	Decontamination and Decommissioning
DCA	Discharge Canal Area
DCGL	Derived Concentration Guideline Level
DoD	Department of Defense
DOE	Department of Energy
DQA	Data Quality Assessment
DQO	Data Quality Objective
dpm	disintegrations per minute
EOCA	East Owner-Controlled Area
EPA	Environmental Protection Agency
FSS	Final Status Survey
GPS	Global Positioning System
HDI	Holtec Decommissioning International
HSA	Historical Site Assessment
HTD	Hard-to-Detect (radionuclide)
ISFSI	Interim Spent Fuel Storage Installation
m ²	square meters
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDC	Minimum Detectable Concentration
mrem/y	millirem per year
NaI	sodium iodide
ND	Not Detected
NELAP	National Environmental Laboratory Accreditation Program
NGF	New Gatehouse Facility
NIST	National Institute of Standards and Technology
NJAC	New Jersey Administrative Code
NOCA	North Owner Controlled Area
NORM	Naturally Occurring Radioactive Materials
NPA	North Protected Area
NRC	(U.S.) Nuclear Regulatory Commission
OCA	Owner Controlled Area
OCAB	Oyster Creek Administration Building
OCNGS	Oyster Creek Nuclear Generating Station

PA	Protected Area
pCi/g	picocuries per gram
pCi/L	picocuries per liter
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RCA	Radiologically Controlled Area
RGPP	Radiological Groundwater Protection Program
RMA	Radioactive Material Area
RP	Radiation Protection
RWP	Radiation Work Permit
ROC	Radionuclide-of-Concern
SAP	Survey Area Plan
SCP	Site Characterization Plan
SEB	Site Emergency Building
SOCA	South Owner-Controlled Area
SPA	South Protected Area
uR/h	micro-Roentgen per hour
V&V	Verification and Validation
VSP	Visual Sample Plan

1 INTRODUCTION

This document is designed as a supplement to Site Radiological Characterization Report, Revision 1 by providing additional information for site soil characterization. Only new data and differences between this sample collection effort and previous soil characterization efforts will be discussed.

The sampling was governed by two separate sample plans, Addendum to SAP-10, "Oyster Creek Nuclear Generating Station Open Land Area Survey Plan: Radiologically Controlled Area" and Technical Support Document Number 24-111 "Surface/Sub Surface Characterization Survey Plan for Oyster Creek Nuclear Generating Station".

The purpose of the addendum to SAP 10 was to further investigate locations where survey data results identified areas of elevated Easy-to-Detect gamma radionuclides. In the original sample plan, not all samples obtained were analyzed for Hard-to-Detect radionuclides. The areas selected for further investigation had a full suite of radiochemical analysis performed for all Radionuclides of Concern (ROCs).

The purpose of TSD 24-111 was to perform surface and subsurface soil samples at locations identified by the Historical Site Assessment (HSA) and previous characterization surveys where known spills or contamination had been identified.

1.1 SITE CHARACTERIZATION QUALITY REQUIREMENTS

All quality assurance/quality control (QA/QC) requirements established by the SCP were met during the radiological characterization activities. Those QA/QC requirements were:

Characterization Sample Analyses:

- QC sample analysis – a contracted commercial radioanalytical laboratory analyzed 100% of the volumetric samples for gamma-emitters, Hard-to-Detect (HTD) alpha and beta-emitters.
- Duplicate sample analysis – Where 100% of the volumetric samples were included in the QC sample analysis, only 1 sample was sent to the on-site mobile laboratory for duplicate analysis.

2 RADIOLOGICAL CHARACTERIZATION OF OCNGS SITE**2.1 SURVEY METHODS AND TECHNIQUES**Volumetric Samples

Volumetric samples were collected using grab sample techniques. The use of hand-held split spoon samplers aided the collection of subsurface soil. Samples consisted of 2 media types; asphalt and soil. Asphalt samples were obtained in locations where a layer of asphalt covered the desired underlying sample media. Roof gravel, a layer of small stones used as a final coating to protect the roof, was sampled.

All remaining samples were soil, which is the upper layer of earth consisting of a mixture of organic remains, clay, and rock particles, and were obtained at various depths. To check for gross stratification, samples were obtained at multiple depths. Samples designated "SOIL" were taken from the top 6 inches of soil below any asphalt. Samples taken at the next depth, samples designated "DEP1" were taken at depths beginning at 6 inches and down to a depth of up to 2 feet below the surface. Sample designation of DEP2 through DEP10 were taken from 4 feet to 20 feet in 2 foot increments.

3 RADIOLOGICAL FINDINGS

3.1 1982 CONTAMINATED SOIL RELOCATION INVESTIGATION

3.1.1 Area Description

NOCA-2 (aka North Parking Lot) is the area immediately north of the Protected Area and is illustrated in **Error! Reference source not found.** It is 10,110 m² in size and is currently covered with an asphalt parking lot. In 1982 GPU Nuclear received NRC approval to relocate approximately 17,000 cubic feet of contaminated soil under §20.302. The disposal method was burial in shallow trenches below a minimum cover of six inches of clean soil. The area within the NOCA-2 boundary has been preliminarily classified as Class 1 due to the burial of this material.

3.1.2 Survey Summary

Survey Dates: 2/5/2025 through 2/10/2025

Survey and field activities were governed by TSD 24-111, *Surface/Sub Surface Characterization Survey Plan for Oyster Creek Nuclear Generating Station*. The objective of TSD-24-111 is to:

- Determine the contamination from known spills or contamination identified in the Historical Site Assessment (HSA) and initial characterization surveys. Specifically targeting the historical buried soil locations.
- Confirm consistency of onsite and contracted commercial laboratory analysis for gamma spectroscopy, specifically for the quantification of Co-60 and Cs-137 as the primary Target ROCs.
- Demonstrate that onsite gamma spectroscopy is an effective screening tool for suspicion of HTD nuclides
- During the execution of the survey plan, field labeling of samples followed the information shown in Attachment 2 of the survey plan. Upon data review it was identified that the sample numbers were not in sequential order with previous NOCA2 characterization survey samples. Therefore, to prevent any confusion in survey data, the samples were renumbered following analysis. Table 3-1 shows the field sample numbers and the numbers reported.

Table 3-1 NOCA2 Sample number replacement

Field Sample Number	Reported Sample Number
NOCA2-BBBB-21-B	NOCA2-BBBB-005-B
NOCA2-BBBB-22-B	NOCA2-BBBB-006-B
NOCA2-BBBB-23-B	NOCA2-BBBB-007-B
NOCA2-BBBB-24-B	NOCA2-BBBB-008-B
NOCA2-BBBB-25-B	NOCA2-BBBB-009-B
NOCA2-BBBB-26-B	NOCA2-BBBB-010-B
NOCA2-BBBB-27-B	NOCA2-BBBB-011-B

SECTION THREE

Radiological Findings

In an effort to locate the soil that was relocated in 1982, survey planning for the NOCA-2 area identified 7 sample locations where the material may potentially have been deposited. All of the samples were relocated due to the presence of underground utilities. Alternative sample locations were selected to remain a safe distance from the underground utilities and to expand the survey area for identification of the relocated soil. GPS coordinates for the original and alternate sample location were recorded during sampling to document the new locations and are shown in Table 3-2. The relative sample locations are shown in Figure 3-1.

Sampling at location NOCA2-011-B encountered resistance at approximately 6 inches of depth. Therefore, the sample location was relocated to location NOCA2-012-B. Where the samples obtained from NOCA2-011-B were retained for analysis, the relocated sample location was given separate sample numbers.

A total of 58 samples were obtained from the investigation area: 8 asphalt samples, 8 surface soil samples, and 42 samples at depths greater than 6 in. Seven samples were taken at each of the following depths, up to 2 feet (DEP1), 2 to 4 feet (DEP2), 4 to 6 feet (DEP3), 6 to 8 feet (DEP4), 8 to 10 feet (DEP5), and 10 to 12 feet (DEP6). All samples collected were from biased locations. Asphalt samples were obtained at locations where the soil was covered by asphalt.

Table 3-2 GPS Coordinates for Relocated Soil Sample Collection Locations

Sample Location Number		Easting	Northing
NOCA2-21-B:	Original location coordinates	574570.609892	358118.977557
NOCA2-005-B:	Sample relocation coordinates	574626.201117	358130.169416
NOCA2-22-B:	Original location coordinates	574592.390688	358133.234746
NOCA2-006-B:	Sample relocation coordinates	574642.232155	358152.759747
NOCA2-23-B:	Original location coordinates	574612.753508	358147.363983
NOCA2-007-B:	Sample relocation coordinates	574655.600680	358175.410692
NOCA2-24-B:	Original location coordinates	574629.107150	358158.263567
NOCA2-008-B:	Sample relocation coordinates	574673.433788	358199.224595
NOCA2-25-B:	Original location coordinates	574646.928309	358170.539133
NOCA2-009-B:	Sample relocation coordinates	574684.843542	358216.397217
NOCA2-26-B:	Original location coordinates	574665.306881	358184.149342
NOCA2-010-B:	Sample relocation coordinates	574697.689174	358237.128797
NOCA2-27-B:	Original location coordinates	574684.700871	358197.487898
NOCA2-011-B:	Sample relocation coordinates	574708.823800	358255.932105
NOCA2-012-B		574709.245356	358248.046647



Figure 3-1 Soil Relocation Sample Locations

3.1.3 Survey Data Summary

Discussion

Cesium-137 concentrations were less than the achieved MDC values for most NOCA-2 samples. However, Cs-137 was detected at concentrations greater than the MDC values in eight samples over 6 locations and 5 sample depths (NOCA2-DEP1-005-B, NOCA2-DEP2-006-B, NOCA2-DEP2-007-B, NOCA2-DEP3-007-B, NOCA2-DEP4-007-B, NOCA2-ASPH-008-B, NOCA2-DEP2-009-B, and NOCA2-DEP2-010-B) as seen in Table 3-3, bolded results in the tabular data indicate positive results or >MDC, where non-bold values are MDC. Minimum, Maximum, Average and Standard Deviation by sample depth are located in Table 3-4 through Table 3-11. The average is skewed high, and the standard deviation is skewed low by using MDC rather than a minimum value that may be less than MDC. The Cs-137 concentrations in the deep samples are potentially from the residual contamination associated with the NRC-approved relocation of contaminated site soil to the NOCA-2 area in 1982 prior to the expansion of the North Parking Lot.

One asphalt sample, NOCA2-ASPH-008-B, gamma analysis report shows the Cs-137 concentration to be $9.91\text{E-}02$ pCi/g, which is less than 2% of the Class 1 assessment criteria for Cs-137 ($5.76\text{E+}00$ pCi/g). This result indicates that if present, Cs-137 contamination in asphalt would likely not be widespread or exceed a small fraction of the Class 1 AC for Cs-137.

One sample at a depth up to 2 feet, NOCA2-DEP1-005-B, gamma analysis report shows the Cs-137 concentration to be $2.05\text{E-}02$ pCi/g, which is less than 1% of the Class 1 assessment criteria for Cs-137.

Cs-137 concentrations in samples at a depth between 2 and 4 feet ranged from non-detectable concentrations (less than achieved MDC values) to a maximum concentration of $3.93\text{E-}02$ pCi/g, which is less than 1% of the Class 1 assessment criteria for Cs-137 with 4 of 7 DEP2 samples showing concentrations greater than MDC.

One sample at a depth between 4 and 6 feet, NOCA2-DEP3-007-B, gamma analysis report shows the Cs-137 concentration to be $2.02\text{E-}02$ pCi/g, which is less than 1% of the Class 1 assessment criteria for Cs-137.

One sample at a depth between 6 and 8 feet, NOCA2-DEP4-007-B, gamma analysis report shows the Cs-137 concentration to be $1.24\text{E-}02$ pCi/g, which is less than 1% of the Class 1 assessment criteria for Cs-137.

Soil and samples at a depths greater than 8 feet did not indicate the presence of Cs-137 above the achieved MDC values. No samples indicated the presence of Co-60 above the achieved MDC values.

The presence of HTD ROCs (alpha and beta) in all of the samples were evaluated. The results of those analyses (Table 3-3) did not identify HTD alpha or beta-emitting ROCs above the MDC value achieved during the analyses.

The bolded results in the tabular data indicate positive results or >MDC, where non-bold values are MDC.

Table 3-3 Relocated Soil Investigation Sample Analysis Results

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-005-B	1.86E-02	1.86E-02	4.33E-02	5.86E-02	1.77E-02	1.54E-02	4.65E-02
NOCA2-SOIL-005-B	1.45E-02	1.16E-02	3.16E-02	3.47E-02	1.27E-02	1.14E-02	3.04E-02
NOCA2-DEP1-005-B	9.58E-03	2.05E-02	3.10E-02	3.17E-02	1.23E-02	9.49E-03	2.61E-02
NOCA2-DEP2-005-B	1.44E-02	2.12E-02	3.87E-02	3.86E-02	1.27E-02	1.41E-02	3.70E-02
NOCA2-DEP3-005-B	9.34E-03	1.06E-02	3.00E-02	2.99E-02	1.06E-02	9.54E-03	2.70E-02
NOCA2-DEP4-005-B	1.32E-02	1.05E-02	3.23E-02	3.15E-02	1.22E-02	1.11E-02	2.86E-02
NOCA2-DEP5-005-B	9.87E-03	9.34E-03	2.60E-02	2.13E-02	9.46E-03	9.38E-03	2.23E-02
NOCA2-DEP6-005-B	9.42E-03	7.32E-03	2.15E-02	2.04E-02	7.24E-03	7.37E-03	1.95E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-005-B	4.31E-01	3.73E-01	3.73E-01	5.02E-02	3.84E-01	4.94E-01	4.94E-01
NOCA2-SOIL-005-B	3.78E-01	2.31E-01	2.31E-01	3.05E-02	3.09E-01	3.46E-01	3.46E-01
NOCA2-DEP1-005-B	2.77E-01	2.35E-01	2.35E-01	3.70E-02	2.61E-01	1.66E-01	1.66E-01
NOCA2-DEP2-005-B	4.31E-01	2.58E-01	2.58E-01	5.21E-02	2.80E-01	2.58E-01	2.58E-01
NOCA2-DEP3-005-B	2.95E-01	2.10E-01	2.10E-01	4.16E-02	2.15E-01	2.32E-01	2.32E-01
NOCA2-DEP4-005-B	3.67E-01	2.58E-01	2.58E-01	4.03E-02	2.10E-01	2.55E-01	2.55E-01
NOCA2-DEP5-005-B	3.01E-01	2.03E-01	2.03E-01	3.32E-02	1.86E-01	2.39E-01	2.39E-01
NOCA2-DEP6-005-B	2.26E-01	2.25E-01	2.25E-01	3.92E-02	3.59E-01	3.38E-01	3.38E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-005-B	3.56E+00	2.19E+02	9.70E+00	2.14E+01	2.77E-01	6.26E+01	4.64E-01
NOCA2-SOIL-005-B	3.54E+00	5.71E+02	1.19E+01	1.93E+01	1.61E-01	4.94E+01	4.16E-01
NOCA2-DEP1-005-B	3.45E+00	7.19E+02	1.17E+01	1.65E+01	1.51E-01	3.52E+01	4.11E-01
NOCA2-DEP2-005-B	3.38E+00	5.62E+02	1.24E+01	1.65E+01	1.71E-01	3.43E+01	4.18E-01
NOCA2-DEP3-005-B	3.56E+00	5.76E+02	1.17E+01	2.04E+01	1.78E-01	2.78E+01	4.33E-01
NOCA2-DEP4-005-B	3.56E+00	5.29E+02	1.22E+01	1.76E+01	1.22E-01	3.23E+01	4.07E-01
NOCA2-DEP5-005-B	3.40E+00	5.95E+02	1.17E+01	1.84E+01	1.98E-01	2.95E+01	4.08E-01
NOCA2-DEP6-005-B	3.46E+00	5.11E+02	1.20E+01	2.16E+01	2.66E-01	4.53E+01	4.20E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-006-B	1.87E-02	1.95E-02	3.82E-02	5.78E-02	1.78E-02	1.57E-02	4.25E-02
NOCA2-SOIL-006-B	1.21E-02	1.25E-02	3.83E-02	3.19E-02	1.27E-02	1.04E-02	2.92E-02
NOCA2-DEP1-006-B	1.26E-02	1.41E-02	3.26E-02	4.00E-02	1.40E-02	1.31E-02	3.36E-02
NOCA2-DEP2-006-B	1.81E-02	2.54E-02	3.93E-02	4.54E-02	1.40E-02	1.31E-02	3.69E-02
NOCA2-DEP3-006-B	1.42E-02	1.48E-02	3.63E-02	3.20E-02	1.30E-02	1.04E-02	3.13E-02
NOCA2-DEP4-006-B	1.07E-02	1.09E-02	2.94E-02	2.90E-02	6.79E-03	1.05E-02	2.82E-02
NOCA2-DEP5-006-B	1.33E-02	1.66E-02	3.64E-02	2.93E-02	1.26E-02	1.23E-02	3.42E-02
NOCA2-DEP6-006-B	9.67E-03	1.19E-02	2.79E-02	2.57E-02	9.88E-03	9.69E-03	2.19E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-006-B	4.52E-01	2.85E-01	2.85E-01	4.01E-02	2.85E-01	2.85E-01	2.85E-01
NOCA2-SOIL-006-B	3.92E-01	1.97E-01	1.97E-01	3.37E-02	2.30E-01	2.30E-01	2.30E-01
NOCA2-DEP1-006-B	1.68E-01	2.15E-01	2.15E-01	2.64E-02	2.02E-01	2.74E-01	2.74E-01
NOCA2-DEP2-006-B	3.62E-01	2.18E-01	2.18E-01	2.98E-02	2.97E-01	3.90E-01	3.90E-01
NOCA2-DEP3-006-B	3.61E-01	2.37E-01	2.37E-01	5.68E-02	3.31E-01	3.06E-01	3.06E-01
NOCA2-DEP4-006-B	3.56E-01	2.32E-01	2.32E-01	3.80E-02	2.20E-01	2.83E-01	2.83E-01
NOCA2-DEP5-006-B	3.47E-01	2.75E-01	2.75E-01	4.79E-02	1.92E-01	2.60E-01	2.60E-01
NOCA2-DEP6-006-B	3.34E-01	1.91E-01	1.91E-01	5.06E-02	2.80E-01	3.69E-01	3.69E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-006-B	3.41E+00	1.72E+02	1.09E+01	2.13E+01	2.78E-01	7.02E+01	4.56E-01
NOCA2-SOIL-006-B	3.31E+00	5.51E+02	1.14E+01	1.90E+01	1.40E-01	3.48E+01	4.16E-01
NOCA2-DEP1-006-B	3.61E+00	4.85E+02	1.16E+01	1.80E+01	1.99E-01	3.08E+01	4.22E-01
NOCA2-DEP2-006-B	3.59E+00	5.65E+02	1.23E+01	1.91E+01	1.94E-01	3.80E+01	4.15E-01
NOCA2-DEP3-006-B	3.51E+00	5.27E+02	1.12E+01	1.94E+01	2.15E-01	3.98E+01	4.22E-01
NOCA2-DEP4-006-B	3.55E+00	5.55E+02	1.28E+01	1.84E+01	1.87E-01	3.69E+01	4.19E-01
NOCA2-DEP5-006-B	3.21E+00	6.32E+02	1.26E+01	1.78E+01	2.18E-01	3.13E+01	4.31E-01
NOCA2-DEP6-006-B	3.31E+00	5.81E+02	1.31E+01	1.96E+01	2.08E-01	3.83E+01	4.23E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-007-B	1.17E-02	1.27E-02	2.99E-02	3.21E-02	1.33E-02	1.35E-02	2.82E-02
NOCA2-SOIL-007-B	1.38E-02	1.25E-02	3.09E-02	3.55E-02	1.32E-02	1.02E-02	3.46E-02
NOCA2-DEP1-007-B	1.36E-02	1.18E-02	3.07E-02	3.21E-02	1.21E-02	1.02E-02	3.13E-02
NOCA2-DEP2-007-B	1.23E-02	3.93E-02	2.97E-02	2.57E-02	1.28E-02	1.06E-02	2.84E-02
NOCA2-DEP3-007-B	8.07E-03	2.02E-02	2.61E-02	2.56E-02	9.51E-03	8.32E-03	2.33E-02
NOCA2-DEP4-007-B	1.14E-02	1.24E-02	2.39E-02	2.86E-02	1.09E-02	8.79E-03	2.01E-02
NOCA2-DEP5-007-B	1.37E-02	1.19E-02	2.64E-02	1.81E-02	9.22E-03	1.05E-02	2.63E-02
NOCA2-DEP6-007-B	9.05E-03	1.06E-02	3.11E-02	2.46E-02	1.23E-02	9.98E-03	2.29E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-007-B	2.19E-01	1.59E-01	1.59E-01	4.83E-02	4.64E-01	4.63E-01	4.63E-01
NOCA2-SOIL-007-B	2.42E-01	2.54E-01	2.54E-01	3.40E-02	2.51E-01	2.36E-01	2.36E-01
NOCA2-DEP1-007-B	3.82E-01	2.59E-01	2.59E-01	4.30E-02	1.22E-01	1.22E-01	1.22E-01
NOCA2-DEP2-007-B	3.11E-01	3.21E-01	3.21E-01	4.25E-02	2.06E-01	1.47E-01	1.47E-01
NOCA2-DEP3-007-B	3.56E-01	1.90E-01	1.90E-01	5.82E-02	2.01E-01	2.59E-01	2.59E-01
NOCA2-DEP4-007-B	5.25E-01	5.20E-01	5.20E-01	6.12E-02	1.71E-01	2.68E-01	2.68E-01
NOCA2-DEP5-007-B	3.89E-01	2.70E-01	2.70E-01	3.48E-02	2.45E-01	1.29E-01	1.29E-01
NOCA2-DEP6-007-B	2.39E-01	2.02E-01	2.02E-01	3.77E-02	1.69E-01	2.37E-01	2.37E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-007-B	3.69E+00	1.82E+02	8.99E+00	2.11E+01	3.34E-01	5.10E+01	4.42E-01
NOCA2-SOIL-007-B	3.52E+00	5.37E+02	1.38E+01	1.87E+01	1.39E-01	3.29E+01	4.90E-01
NOCA2-DEP1-007-B	3.48E+00	4.99E+02	1.25E+01	1.51E+01	1.41E-01	2.65E+01	4.27E-01
NOCA2-DEP2-007-B	3.47E+00	5.69E+02	1.29E+01	1.78E+01	1.92E-01	3.20E+01	4.25E-01
NOCA2-DEP3-007-B	3.43E+00	5.32E+02	1.30E+01	1.63E+01	2.43E-01	3.41E+01	4.28E-01
NOCA2-DEP4-007-B	3.45E+00	5.90E+02	1.30E+01	1.78E+01	2.01E-01	4.02E+01	4.20E-01
NOCA2-DEP5-007-B	3.29E+00	5.16E+02	1.29E+01	1.68E+01	1.99E-01	2.89E+01	4.34E-01
NOCA2-DEP6-007-B	3.43E+00	6.19E+02	1.47E+01	1.68E+01	2.59E-01	3.94E+01	4.57E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-008-B	1.35E-02	9.91E-02	3.65E-02	3.64E-02	1.41E-02	1.23E-02	2.97E-02
NOCA2-SOIL-008-B	1.33E-02	1.31E-02	3.66E-02	3.90E-02	1.22E-02	1.14E-02	3.33E-02
NOCA2-DEP1-008-B	1.21E-02	1.49E-02	3.51E-02	3.96E-02	1.46E-02	1.27E-02	3.02E-02
NOCA2-DEP2-008-B	1.08E-02	1.15E-02	3.26E-02	3.29E-02	9.79E-03	8.94E-03	2.68E-02
NOCA2-DEP3-008-B	8.81E-03	9.06E-03	2.70E-02	2.63E-02	9.09E-03	8.65E-03	2.68E-02
NOCA2-DEP4-008-B	1.14E-02	1.00E-02	3.01E-02	3.37E-02	1.13E-02	9.65E-03	2.51E-02
NOCA2-DEP5-008-B	1.37E-02	1.31E-02	3.31E-02	3.45E-02	1.29E-02	8.66E-03	2.55E-02
NOCA2-DEP6-008-B	1.13E-02	1.07E-02	2.92E-02	3.82E-02	1.19E-02	1.09E-02	2.68E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-008-B	4.31E-01	2.79E-01	2.79E-01	4.26E-02	3.48E-01	2.71E-01	2.71E-01
NOCA2-SOIL-008-B	3.52E-01	2.01E-01	2.01E-01	2.36E-02	3.64E-01	3.46E-01	3.46E-01
NOCA2-DEP1-008-B	3.09E-01	2.42E-01	2.42E-01	2.94E-02	1.85E-01	2.90E-01	2.90E-01
NOCA2-DEP2-008-B	3.19E-01	2.57E-01	2.57E-01	3.18E-02	2.85E-01	2.48E-01	2.48E-01
NOCA2-DEP3-008-B	4.14E-01	2.41E-01	2.41E-01	4.49E-02	1.76E-01	2.47E-01	2.47E-01
NOCA2-DEP4-008-B	3.11E-01	1.93E-01	1.93E-01	4.46E-02	1.60E-01	1.60E-01	1.60E-01
NOCA2-DEP5-008-B	3.72E-01	2.76E-01	2.76E-01	3.38E-02	2.66E-01	2.83E-01	2.83E-01
NOCA2-DEP6-008-B	3.76E-01	3.73E-01	3.73E-01	2.95E-02	2.45E-01	2.74E-01	2.74E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-008-B	3.61E+00	2.05E+02	1.01E+01	2.29E+01	2.73E-01	4.38E+01	4.53E-01
NOCA2-SOIL-008-B	4.15E+00	1.13E+02	1.63E+01	2.37E+01	2.67E-01	3.18E+01	4.30E-01
NOCA2-DEP1-008-B	4.04E+00	1.03E+02	1.73E+01	2.36E+01	3.78E-01	3.09E+01	4.33E-01
NOCA2-DEP2-008-B	4.21E+00	1.17E+02	1.72E+01	2.57E+01	3.49E-01	2.69E+01	4.37E-01
NOCA2-DEP3-008-B	4.24E+00	1.21E+02	1.68E+01	2.40E+01	1.74E-01	3.24E+01	4.31E-01
NOCA2-DEP4-008-B	4.27E+00	1.19E+02	1.73E+01	2.45E+01	1.93E-01	2.77E+01	4.36E-01
NOCA2-DEP5-008-B	4.29E+00	1.10E+02	1.71E+01	2.67E+01	2.61E-01	2.66E+01	4.31E-01
NOCA2-DEP6-008-B	4.28E+00	1.02E+02	1.74E+01	1.98E+01	3.71E-01	3.12E+01	4.18E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-009-B	1.68E-02	1.50E-02	3.03E-02	4.44E-02	1.36E-02	1.12E-02	3.14E-02
NOCA2-SOIL-009-B	1.14E-02	1.32E-02	3.73E-02	3.77E-02	1.30E-02	1.02E-02	3.41E-02
NOCA2-DEP1-009-B	1.31E-02	1.25E-02	3.42E-02	4.33E-02	1.15E-02	1.04E-02	2.95E-02
NOCA2-DEP2-009-B	8.73E-03	2.04E-02	2.56E-02	2.37E-02	9.26E-03	9.89E-03	2.29E-02
NOCA2-DEP3-009-B	7.43E-03	7.92E-03	2.49E-02	2.39E-02	9.59E-03	8.21E-03	2.05E-02
NOCA2-DEP4-009-B	1.14E-02	1.12E-02	2.68E-02	3.60E-02	1.05E-02	1.15E-02	3.15E-02
NOCA2-DEP5-009-B	9.59E-03	1.24E-02	2.96E-02	3.18E-02	1.02E-02	1.01E-02	3.19E-02
NOCA2-DEP6-009-B	1.08E-02	1.06E-02	2.44E-02	2.77E-02	7.70E-03	8.47E-03	2.23E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-009-B	2.72E-01	1.44E-01	1.44E-01	2.87E-02	5.88E-01	6.15E-01	6.15E-01
NOCA2-SOIL-009-B	4.35E-01	2.93E-01	2.93E-01	4.15E-02	1.40E-01	2.20E-01	2.20E-01
NOCA2-DEP1-009-B	3.35E-01	3.05E-01	3.05E-01	4.45E-02	2.70E-01	3.11E-01	3.11E-01
NOCA2-DEP2-009-B	4.84E-01	3.03E-01	3.03E-01	3.84E-02	2.31E-01	2.06E-01	2.06E-01
NOCA2-DEP3-009-B	3.62E-01	2.53E-01	2.53E-01	4.84E-02	2.41E-01	2.41E-01	2.41E-01
NOCA2-DEP4-009-B	4.60E-01	1.69E-01	1.69E-01	6.41E-02	2.24E-01	1.60E-01	1.60E-01
NOCA2-DEP5-009-B	2.68E-01	2.22E-01	2.22E-01	3.98E-02	2.58E-01	2.31E-01	2.31E-01
NOCA2-DEP6-009-B	1.82E-01	2.44E-01	2.44E-01	5.93E-02	2.36E-01	2.71E-01	2.71E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-009-B	3.32E+00	2.01E+02	9.91E+00	1.85E+01	3.93E-01	6.78E+01	4.97E-01
NOCA2-SOIL-009-B	4.14E+00	1.11E+02	1.80E+01	2.69E+01	3.40E-01	2.46E+01	4.36E-01
NOCA2-DEP1-009-B	4.25E+00	1.23E+02	1.74E+01	2.11E+01	1.39E-01	2.80E+01	4.39E-01
NOCA2-DEP2-009-B	4.29E+00	1.15E+02	1.70E+01	2.00E+01	3.14E-01	2.72E+01	4.30E-01
NOCA2-DEP3-009-B	4.31E+00	1.17E+02	1.68E+01	2.45E+01	2.56E-01	3.07E+01	4.33E-01
NOCA2-DEP4-009-B	4.27E+00	1.17E+02	1.71E+01	2.28E+01	2.07E-01	2.76E+01	4.19E-01
NOCA2-DEP5-009-B	4.27E+00	1.00E+02	1.64E+01	2.22E+01	3.38E-01	3.05E+01	4.30E-01
NOCA2-DEP6-009-B	4.28E+00	1.24E+02	1.58E+01	2.07E+01	3.05E-01	2.61E+01	4.13E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-010-B	1.34E-02	1.31E-02	3.78E-02	3.68E-02	1.25E-02	1.27E-02	2.85E-02
NOCA2-SOIL-010-B	1.84E-02	1.63E-02	4.17E-02	3.63E-02	1.37E-02	1.43E-02	3.59E-02
NOCA2-DEP1-010-B	1.51E-02	1.45E-02	4.26E-02	4.03E-02	1.61E-02	1.42E-02	4.06E-02
NOCA2-DEP2-010-B	1.04E-02	1.54E-02	3.25E-02	3.04E-02	1.18E-02	1.03E-02	2.96E-02
NOCA2-DEP3-010-B	1.70E-02	9.93E-03	4.17E-02	4.04E-02	1.41E-02	1.05E-02	3.04E-02
NOCA2-DEP4-010-B	9.33E-03	1.15E-02	2.62E-02	3.52E-02	1.35E-02	1.07E-02	2.36E-02
NOCA2-DEP5-010-B	1.09E-02	1.40E-02	4.12E-02	4.34E-02	1.37E-02	1.18E-02	3.40E-02
NOCA2-DEP6-010-B	1.18E-02	1.11E-02	3.09E-02	2.58E-02	9.46E-03	9.40E-03	2.65E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-010-B	4.18E-01	3.08E-01	3.08E-01	3.85E-02	3.78E-01	3.93E-01	3.93E-01
NOCA2-SOIL-010-B	3.03E-01	1.53E-01	1.53E-01	6.15E-02	2.34E-01	2.34E-01	2.34E-01
NOCA2-DEP1-010-B	2.61E-01	1.37E-01	1.37E-01	4.36E-02	2.21E-01	2.21E-01	2.21E-01
NOCA2-DEP2-010-B	1.79E-01	1.15E-01	1.15E-01	3.92E-02	1.44E-01	1.44E-01	1.44E-01
NOCA2-DEP3-010-B	3.99E-01	2.18E-01	2.18E-01	4.49E-02	3.08E-01	2.17E-01	2.17E-01
NOCA2-DEP4-010-B	2.29E-01	2.47E-01	2.47E-01	3.91E-02	1.72E-01	2.18E-01	2.18E-01
NOCA2-DEP5-010-B	3.93E-01	1.88E-01	1.88E-01	3.93E-02	2.02E-01	2.67E-01	2.67E-01
NOCA2-DEP6-010-B	3.91E-01	2.27E-01	2.27E-01	4.26E-02	2.25E-01	2.25E-01	2.25E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-010-B	3.66E+00	1.67E+02	1.02E+01	2.19E+01	3.18E-01	6.27E+01	4.87E-01
NOCA2-SOIL-010-B	3.53E+00	9.62E+01	1.23E+01	1.66E+01	2.94E-01	3.57E+01	4.02E-01
NOCA2-DEP1-010-B	3.58E+00	1.09E+02	1.29E+01	1.52E+01	4.49E-01	2.87E+01	4.09E-01
NOCA2-DEP2-010-B	3.52E+00	1.06E+02	1.26E+01	1.89E+01	1.85E-01	2.61E+01	4.11E-01
NOCA2-DEP3-010-B	3.41E+00	1.12E+02	1.24E+01	1.90E+01	2.29E-01	2.98E+01	4.02E-01
NOCA2-DEP4-010-B	3.57E+00	1.25E+02	1.23E+01	1.73E+01	2.24E-01	2.68E+01	4.06E-01
NOCA2-DEP5-010-B	3.62E+00	1.14E+02	1.27E+01	1.88E+01	3.56E-01	2.67E+01	4.09E-01
NOCA2-DEP6-010-B	3.62E+00	9.90E+01	1.28E+01	1.96E+01	3.96E-01	2.78E+01	4.11E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NOCA2-ASPH-011-B	1.45E-02	1.19E-02	3.32E-02	3.99E-02	1.27E-02	1.22E-02	2.91E-02
NOCA2-SOIL-011-B	1.02E-02	9.62E-03	3.09E-02	3.27E-02	1.06E-02	1.09E-02	2.99E-02
NOCA2-ASPH-012-B	1.24E-02	1.56E-02	3.31E-02	3.72E-02	1.16E-02	1.06E-02	3.06E-02
NOCA2-SOIL-012-B	1.68E-02	1.97E-02	4.32E-02	4.50E-02	1.67E-02	1.30E-02	3.91E-02
NOCA2-DEP1-012-B	1.54E-02	1.88E-02	4.99E-02	5.67E-02	1.99E-02	1.92E-02	4.84E-02
NOCA2-DEP2-012-B	1.31E-02	1.40E-02	3.62E-02	2.50E-02	1.22E-02	1.26E-02	3.05E-02
NOCA2-DEP3-012-B	1.27E-02	1.11E-02	3.80E-02	3.83E-02	1.43E-02	1.27E-02	3.73E-02
NOCA2-DEP4-012-B	6.22E-03	1.09E-02	2.59E-02	3.64E-02	1.09E-02	1.08E-02	2.64E-02
NOCA2-DEP5-012-B	1.27E-02	1.29E-02	3.63E-02	3.07E-02	1.21E-02	1.29E-02	3.10E-02
NOCA2-DEP6-012-B	1.05E-02	8.76E-03	2.88E-02	2.45E-02	1.24E-02	9.07E-03	2.56E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NOCA2-ASPH-011-B	6.02E-01	5.14E-01	5.14E-01	2.57E-02	2.00E-01	2.00E-01	2.00E-01
NOCA2-SOIL-011-B	2.79E-01	1.19E-01	1.19E-01	4.69E-02	3.43E-01	4.15E-01	4.15E-01
NOCA2-ASPH-012-B	3.80E-01	2.71E-01	2.71E-01	3.68E-02	2.67E-01	2.67E-01	2.67E-01
NOCA2-SOIL-012-B	4.13E-01	2.48E-01	2.48E-01	5.91E-02	1.77E-01	2.47E-01	2.47E-01
NOCA2-DEP1-012-B	3.92E-01	2.52E-01	2.52E-01	5.05E-02	1.45E-01	1.45E-01	1.45E-01
NOCA2-DEP2-012-B	2.82E-01	2.35E-01	2.35E-01	4.61E-02	2.54E-01	2.34E-01	2.34E-01
NOCA2-DEP3-012-B	2.99E-01	1.46E-01	1.46E-01	4.43E-02	1.79E-01	2.62E-01	2.62E-01
NOCA2-DEP4-012-B	2.07E-01	1.83E-01	1.83E-01	3.89E-02	1.96E-01	2.87E-01	2.87E-01
NOCA2-DEP5-012-B	4.43E-01	2.88E-01	2.88E-01	4.33E-02	2.29E-01	2.29E-01	2.29E-01
NOCA2-DEP6-012-B	2.92E-01	2.16E-01	2.16E-01	2.20E-02	2.53E-01	2.35E-01	2.35E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NOCA2-ASPH-011-B	3.59E+00	2.08E+02	9.15E+00	1.74E+01	3.41E-01	4.85E+01	4.61E-01
NOCA2-SOIL-011-B	4.15E+00	1.01E+02	1.63E+01	2.05E+01	1.88E-01	2.90E+01	4.32E-01
NOCA2-ASPH-012-B	3.58E+00	1.89E+02	1.16E+01	2.04E+01	4.99E-01	6.04E+01	4.68E-01
NOCA2-SOIL-012-B	3.59E+00	1.11E+02	1.25E+01	1.99E+01	3.37E-01	2.42E+01	4.02E-01
NOCA2-DEP1-012-B	3.55E+00	1.06E+02	1.28E+01	1.74E+01	3.08E-01	2.56E+01	4.15E-01
NOCA2-DEP2-012-B	3.49E+00	1.18E+02	1.30E+01	2.06E+01	3.60E-01	2.38E+01	4.51E-01
NOCA2-DEP3-012-B	3.57E+00	1.05E+02	1.22E+01	1.97E+01	3.84E-01	3.18E+01	4.14E-01
NOCA2-DEP4-012-B	3.53E+00	1.16E+02	1.28E+01	1.75E+01	3.75E-01	3.25E+01	4.08E-01
NOCA2-DEP5-012-B	3.57E+00	1.18E+02	1.24E+01	1.89E+01	2.26E-01	2.65E+01	3.96E-01
NOCA2-DEP6-012-B	3.60E+00	1.02E+02	1.26E+01	1.99E+01	1.65E-01	3.13E+01	4.05E-01

Table 3-4 Relocated Soil Investigation Asphalt Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.17E-02	1.19E-02	2.99E-02	3.21E-02	1.16E-02	1.06E-02	2.82E-02
Max	1.87E-02	9.91E-02	4.33E-02	5.86E-02	1.78E-02	1.57E-02	4.65E-02
Average	1.50E-02	2.57E-02	3.53E-02	4.29E-02	1.42E-02	1.30E-02	3.33E-02
Standard Deviation	2.74E-03	2.98E-02	4.53E-03	1.01E-02	2.34E-03	1.83E-03	7.07E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.19E-01	1.44E-01	1.44E-01	2.57E-02	2.00E-01	2.00E-01	2.00E-01
Max	6.02E-01	5.14E-01	5.14E-01	5.02E-02	5.88E-01	6.15E-01	6.15E-01
Average	4.01E-01	2.92E-01	2.92E-01	3.89E-02	3.64E-01	3.74E-01	3.74E-01
Standard Deviation	1.17E-01	1.17E-01	1.17E-01	8.57E-03	1.22E-01	1.42E-01	1.42E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.32E+00	1.67E+02	8.99E+00	1.74E+01	2.73E-01	4.38E+01	4.42E-01
Max	3.69E+00	2.19E+02	1.16E+01	2.29E+01	4.99E-01	7.02E+01	4.97E-01
Average	3.55E+00	1.93E+02	1.01E+01	2.06E+01	3.39E-01	5.84E+01	4.66E-01
Standard Deviation	1.26E-01	1.84E+01	8.64E-01	1.81E+00	7.64E-02	9.51E+00	1.80E-02

Table 3-5 Relocated Soil Investigation Soil Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.02E-02	9.62E-03	3.09E-02	3.19E-02	1.06E-02	1.02E-02	2.92E-02
Max	1.84E-02	1.97E-02	4.32E-02	4.50E-02	1.67E-02	1.43E-02	3.91E-02
Average	1.38E-02	1.36E-02	3.63E-02	3.66E-02	1.31E-02	1.15E-02	3.33E-02
Standard Deviation	2.74E-03	3.10E-03	4.81E-03	4.14E-03	1.72E-03	1.47E-03	3.37E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.42E-01	1.19E-01	1.19E-01	2.36E-02	1.40E-01	2.20E-01	2.20E-01
Max	4.35E-01	2.93E-01	2.93E-01	6.15E-02	3.64E-01	4.15E-01	4.15E-01
Average	3.49E-01	2.12E-01	2.12E-01	4.14E-02	2.56E-01	2.84E-01	2.84E-01
Standard Deviation	6.83E-02	5.66E-02	5.66E-02	1.36E-02	7.83E-02	7.37E-02	7.37E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.31E+00	9.62E+01	1.14E+01	1.66E+01	1.39E-01	2.42E+01	4.02E-01
Max	4.15E+00	5.71E+02	1.80E+01	2.69E+01	3.40E-01	4.94E+01	4.90E-01
Average	3.74E+00	2.74E+02	1.41E+01	2.06E+01	2.33E-01	3.28E+01	4.28E-01
Standard Deviation	3.46E-01	2.31E+02	2.48E+00	3.24E+00	8.61E-02	7.97E+00	2.82E-02

Table 3-6 Relocated Soil Investigation DEP1 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.58E-03	1.18E-02	3.07E-02	3.17E-02	1.15E-02	9.49E-03	2.61E-02
Max	1.54E-02	2.05E-02	4.99E-02	5.67E-02	1.99E-02	1.92E-02	4.84E-02
Average	1.31E-02	1.53E-02	3.66E-02	4.05E-02	1.44E-02	1.28E-02	3.42E-02
Standard Deviation	1.97E-03	3.20E-03	7.11E-03	8.36E-03	2.93E-03	3.33E-03	7.69E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.68E-01	1.37E-01	1.37E-01	2.64E-02	1.22E-01	1.22E-01	1.22E-01
Max	3.92E-01	3.05E-01	3.05E-01	5.05E-02	2.70E-01	3.11E-01	3.11E-01
Average	3.03E-01	2.35E-01	2.35E-01	3.92E-02	2.01E-01	2.18E-01	2.18E-01
Standard Deviation	7.72E-02	5.13E-02	5.13E-02	8.70E-03	5.54E-02	7.55E-02	7.55E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.45E+00	1.03E+02	1.16E+01	1.51E+01	1.39E-01	2.56E+01	4.09E-01
Max	4.25E+00	7.19E+02	1.74E+01	2.36E+01	4.49E-01	3.52E+01	4.39E-01
Average	3.71E+00	3.06E+02	1.37E+01	1.81E+01	2.52E-01	2.94E+01	4.22E-01
Standard Deviation	3.09E-01	2.56E+02	2.51E+00	3.15E+00	1.26E-01	3.24E+00	1.14E-02

Table 3-7 Relocated Soil Investigation DEP2 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	8.73E-03	1.15E-02	2.56E-02	2.37E-02	9.26E-03	8.94E-03	2.29E-02
Max	1.81E-02	3.93E-02	3.93E-02	4.54E-02	1.40E-02	1.41E-02	3.70E-02
Average	1.25E-02	2.10E-02	3.35E-02	3.17E-02	1.18E-02	1.14E-02	3.03E-02
Standard Deviation	3.08E-03	9.36E-03	4.94E-03	7.99E-03	1.70E-03	1.91E-03	5.16E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.79E-01	1.15E-01	1.15E-01	2.98E-02	1.44E-01	1.44E-01	1.44E-01
Max	4.84E-01	3.21E-01	3.21E-01	5.21E-02	2.97E-01	3.90E-01	3.90E-01
Average	3.38E-01	2.44E-01	2.44E-01	4.00E-02	2.42E-01	2.32E-01	2.32E-01
Standard Deviation	1.00E-01	6.73E-02	6.73E-02	7.79E-03	5.40E-02	8.32E-02	8.32E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.38E+00	1.06E+02	1.23E+01	1.65E+01	1.71E-01	2.38E+01	4.11E-01
Max	4.29E+00	5.69E+02	1.72E+01	2.57E+01	3.60E-01	3.80E+01	4.51E-01
Average	3.71E+00	3.07E+02	1.39E+01	1.98E+01	2.52E-01	2.98E+01	4.27E-01
Standard Deviation	3.77E-01	2.41E+02	2.19E+00	2.93E+00	8.46E-02	5.12E+00	1.40E-02

Table 3-8 Relocated Soil Investigation DEP3 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.02E-02	9.62E-03	3.09E-02	3.19E-02	1.06E-02	1.02E-02	2.92E-02
Max	1.84E-02	1.97E-02	4.32E-02	4.50E-02	1.67E-02	1.43E-02	3.91E-02
Average	1.38E-02	1.36E-02	3.63E-02	3.66E-02	1.31E-02	1.15E-02	3.33E-02
Standard Deviation	2.74E-03	3.10E-03	4.81E-03	4.14E-03	1.72E-03	1.47E-03	3.37E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.95E-01	1.46E-01	1.46E-01	4.16E-02	1.76E-01	2.17E-01	2.17E-01
Max	4.14E-01	2.53E-01	2.53E-01	5.82E-02	3.31E-01	3.06E-01	3.06E-01
Average	3.55E-01	2.14E-01	2.14E-01	4.84E-02	2.36E-01	2.52E-01	2.52E-01
Standard Deviation	4.53E-02	3.65E-02	3.65E-02	6.51E-03	6.16E-02	2.84E-02	2.84E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.41E+00	1.05E+02	1.12E+01	1.63E+01	1.74E-01	2.78E+01	4.02E-01
Max	4.31E+00	5.76E+02	1.68E+01	2.45E+01	3.84E-01	3.98E+01	4.33E-01
Average	3.72E+00	2.99E+02	1.34E+01	2.05E+01	2.40E-01	3.23E+01	4.23E-01
Standard Deviation	3.85E-01	2.31E+02	2.36E+00	2.89E+00	7.06E-02	3.85E+00	1.16E-02

Table 3-9 Relocated Soil Investigation DEP4 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	6.22E-03	1.00E-02	2.39E-02	2.86E-02	6.79E-03	8.79E-03	2.01E-02
Max	1.32E-02	1.24E-02	3.23E-02	3.64E-02	1.35E-02	1.15E-02	3.15E-02
Average	1.05E-02	1.11E-02	2.78E-02	3.29E-02	1.09E-02	1.04E-02	2.62E-02
Standard Deviation	2.22E-03	7.63E-04	2.90E-03	3.25E-03	2.07E-03	9.23E-04	3.72E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.07E-01	1.69E-01	1.69E-01	3.80E-02	1.60E-01	1.60E-01	1.60E-01
Max	5.25E-01	5.20E-01	5.20E-01	6.41E-02	2.24E-01	2.87E-01	2.87E-01
Average	3.51E-01	2.57E-01	2.57E-01	4.66E-02	1.93E-01	2.33E-01	2.33E-01
Standard Deviation	1.15E-01	1.21E-01	1.21E-01	1.12E-02	2.58E-02	5.48E-02	5.48E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.45E+00	1.16E+02	1.22E+01	1.73E+01	1.22E-01	2.68E+01	4.06E-01
Max	4.27E+00	5.90E+02	1.73E+01	2.45E+01	3.75E-01	4.02E+01	4.36E-01
Average	3.74E+00	3.07E+02	1.39E+01	1.94E+01	2.16E-01	3.20E+01	4.16E-01
Standard Deviation	3.62E-01	2.35E+02	2.25E+00	2.95E+00	7.73E-02	5.11E+00	1.06E-02

Table 3-10 Relocated Soil Investigation DEP5 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.59E-03	9.34E-03	2.60E-02	1.81E-02	9.22E-03	8.66E-03	2.23E-02
Max	1.37E-02	1.66E-02	4.12E-02	4.34E-02	1.37E-02	1.29E-02	3.42E-02
Average	1.20E-02	1.29E-02	3.27E-02	2.99E-02	1.15E-02	1.08E-02	2.93E-02
Standard Deviation	1.80E-03	2.19E-03	5.68E-03	8.38E-03	1.80E-03	1.57E-03	4.62E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.68E-01	1.88E-01	1.88E-01	3.32E-02	1.86E-01	1.29E-01	1.29E-01
Max	4.43E-01	2.88E-01	2.88E-01	4.79E-02	2.66E-01	2.83E-01	2.83E-01
Average	3.59E-01	2.46E-01	2.46E-01	3.89E-02	2.25E-01	2.34E-01	2.34E-01
Standard Deviation	5.92E-02	4.06E-02	4.06E-02	5.43E-03	3.25E-02	5.04E-02	5.04E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.21E+00	1.00E+02	1.17E+01	1.68E+01	1.98E-01	2.65E+01	3.96E-01
Max	4.29E+00	6.32E+02	1.71E+01	2.67E+01	3.56E-01	3.13E+01	4.34E-01
Average	3.66E+00	3.12E+02	1.37E+01	1.99E+01	2.57E-01	2.86E+01	4.20E-01
Standard Deviation	4.45E-01	2.54E+02	2.14E+00	3.42E+00	6.55E-02	1.99E+00	1.52E-02

Table 3-11 Relocated Soil Investigation DEP6 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.05E-03	7.32E-03	2.15E-02	2.04E-02	7.24E-03	7.37E-03	1.95E-02
Max	1.18E-02	1.19E-02	3.11E-02	3.82E-02	1.24E-02	1.09E-02	2.68E-02
Average	1.04E-02	1.01E-02	2.77E-02	2.67E-02	1.01E-02	9.27E-03	2.36E-02
Standard Deviation	1.02E-03	1.56E-03	3.53E-03	5.54E-03	2.15E-03	1.13E-03	2.72E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.82E-01	1.91E-01	1.91E-01	2.20E-02	1.69E-01	2.25E-01	2.25E-01
Max	3.91E-01	3.73E-01	3.73E-01	5.93E-02	3.59E-01	3.69E-01	3.69E-01
Average	2.91E-01	2.40E-01	2.40E-01	4.01E-02	2.52E-01	2.78E-01	2.78E-01
Standard Deviation	7.94E-02	6.13E-02	6.13E-02	1.25E-02	5.80E-02	5.52E-02	5.52E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.31E+00	9.90E+01	1.20E+01	1.68E+01	1.65E-01	2.61E+01	4.05E-01
Max	4.28E+00	6.19E+02	1.74E+01	2.16E+01	3.96E-01	4.53E+01	4.57E-01
Average	3.71E+00	3.05E+02	1.41E+01	1.97E+01	2.81E-01	3.42E+01	4.21E-01
Standard Deviation	4.02E-01	2.50E+02	1.98E+00	1.48E+00	8.31E-02	6.96E+00	1.70E-02

3.1.4 Data Quality Comparisons

On-Site Duplicate Counts

No duplicate samples were analyzed for this area.

On-Site / Off-Site Laboratory Comparisons

The comparisons of sample results for the QC of the contaminated soil relocation investigation samples are shown in Table 3-12 through Table 3-19. The comparisons were all found to be acceptable. Agreement is assumed when either of the results are below the achieved MDC value.

SECTION THREE

Radiological Findings

Table 3-12 On-Site/Off-Site Laboratory Comparisons for NOCA2 Asphalt Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-ASPH-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-ASPH-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-ASPH-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-ASPH-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				9.91E-02	8.06E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-ASPH-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-ASPH-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-ASPH-011-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-ASPH-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

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Table 3-13 On-Site/Off-Site Laboratory Comparisons for NOCA2 Soil Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-SOIL-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-SOIL-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-SOIL-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-SOIL-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-SOIL-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-SOIL-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-SOIL-011-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-SOIL-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

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Table 3-14 On-Site/Off-Site Laboratory Comparisons for NOCA2 DEP1 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP1-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.05E-02	4.91E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP1-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP1-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP1-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP1-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP1-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP1-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

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Radiological Findings

Table 3-15 On-Site/Off-Site Laboratory Comparisons for NOCA2 DEP2 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP2-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP2-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.54E-02	7.24E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP2-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.93E-02	7.65E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP2-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP2-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.04E-02	5.20E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP2-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.54E-02	7.60E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP2-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

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Table 3-16 On-Site/Off-Site Laboratory Comparisons for NOCA2 DEP3 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP3-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP3-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP3-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.02E-02	4.06E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP3-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP3-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP3-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP3-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

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Table 3-17 On-Site/Off-Site Laboratory Comparisons for NOCA2 DEP4 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP4-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP4-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP4-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.24E-02	5.77E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP4-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP4-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP4-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP4-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

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Table 3-18 On-Site/Off-Site Laboratory Comparisons for NOCA2 DEP5 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP5-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP5-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP5-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP5-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP5-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP5-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP5-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

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Table 3-19 On-Site/Off-Site Laboratory Comparisons for NOCA2 DEP6 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP6-005-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP6-006-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP6-007-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP6-008-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP6-009-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NOCA2-DEP6-010-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NOCA2-DEP6-012-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

3.1.5 Survey Plan Deviations

Sample points required relocation due to safety concerns. Sample points were located over underground utilities.

3.1.6 Survey Area Investigations

None.

3.1.7 Survey Area Conclusions

The following conclusions were reached for the NOCA-2 area:

- Excavation of the contaminated soil relocated in 1982 under the North Parking is not likely necessary, as indicated by the low Cs-137 concentration in the deep soil sample (i.e., a measured concentration of less than 10% of the Cs-137 AC). The measured Cs-137 and Co-60 concentrations in NOCA-2 samples indicate that the area meets MARSSIM Class 3 criteria.
- MARSSIM Class 1 designation is appropriate for the NOCA-2 survey area: basis (waste storage location).

3.2 TORUS WATER STORAGE TANK

3.2.1 Area Description

According to the HSA, the Torus Water Storage Tank (TWST), located at approximately 574455 Easting and 357596 Northing inside the NPA survey area, had a valve leak that released approximately 50-gallons of liquid to the ground. Spills, leaking piping, and the use of an externally contaminated fire hose spread contamination to the sand and gravel. The soil and gravel were remediated and removed in drums. The TWST has been demolished to grade. Some cut and capped underground piping is expected.

The TWST has a concrete base that remains in place and is covered by a thin layer of dirt and decorative rock.

3.2.2 Survey Summary

Survey Dates: 1/29/2025 through 2/10/2025

Survey and field activities were governed by TSD 24-111, *Surface/Sub Surface Characterization Survey Plan for Oyster Creek Nuclear Generating Station*. The objective of TSD-24-111 is to:

- Determine the contamination from known spills or contamination identified in the Historical Site Assessment (HSA) and initial characterization surveys. Specifically targeting the historical buried soil locations.
- Confirm consistency of onsite and contracted commercial laboratory analysis for gamma spectroscopy, specifically for the quantification of Co-60 and Cs-137 as the primary Target ROCs.
- Demonstrate that onsite gamma spectroscopy is an effective screening tool for suspicion of HTD nuclides

During the execution of the survey plan, field labeling of samples followed the information shown in Attachment 2 of the survey plan. Upon data review it was identified that the sample numbers were not in sequential order with previous NPA characterization survey samples. Therefore, to prevent any confusion in survey data, the samples were renumbered following analysis. Table 3-20 shows the field sample numbers and the numbers reported.

Table 3-20 NPA Sample Number Replacement

Field Sample Number	Reported Sample Number
NPA-BBBB-17-B	NPA-BBBB-017-B
NPA-BBBB-18-B	NPA-BBBB-018-B
NPA-BBBB-19-B	NPA-BBBB-019-B
NPA-BBBB-20-B	NPA-BBBB-020-B

Survey planning for the TWST area identified 4 sample locations around the perimeter of the TWST. One sample location, NPA-021-B was relocated due to obstruction (concrete slab) at approximately 6 inches of depth. Therefore, the sample location was relocated to location NPA-018-B. Where the samples obtained from NPA-021-B were retained for analysis, the relocated sample location was given separate sample numbers. GPS coordinates for the sample location were recorded during sampling to document the locations and are shown in Table 3-21. The relative sample locations are shown in Figure 3-2

A total of 29 samples were obtained from the TWST area: 5 surface soil samples and 24 samples at depths greater than 6 in. Four samples were taken at each of the following depths, up to 2 feet (DEP1), 2 to 4 feet (DEP2), 4 to 6 feet (DEP3), 6 to 8 feet (DEP4), 8 to 10 feet (DEP5) and 10 to 12 feet (DEP6). All samples collected were from biased locations.

Table 3-21 GPS Coordinates for TWST Sample Locations

Sample Number	Easting	Northing
NPA-17-B: Original location coordinates	574440.982526	357641.271491
NPA-017-B: Sample relocation coordinates	574446.876564	357626.504776
NPA-18-B: Original location coordinates	574489.056577	357608.419851
NPA-018-B: Sample relocation coordinates	574485.084319	357605.774190
NPA-19-B: Original location coordinates	574462.456565	357565.337588
NPA-019-B: Sample relocation coordinates	574462.456763	357565.337645
NPA-20-B: Original location coordinates	574414.759810	357588.965821
NPA-020-B: Sample relocation coordinates	574425.942038	357589.403991
NPA-021-B	574476.414617	357603.034415

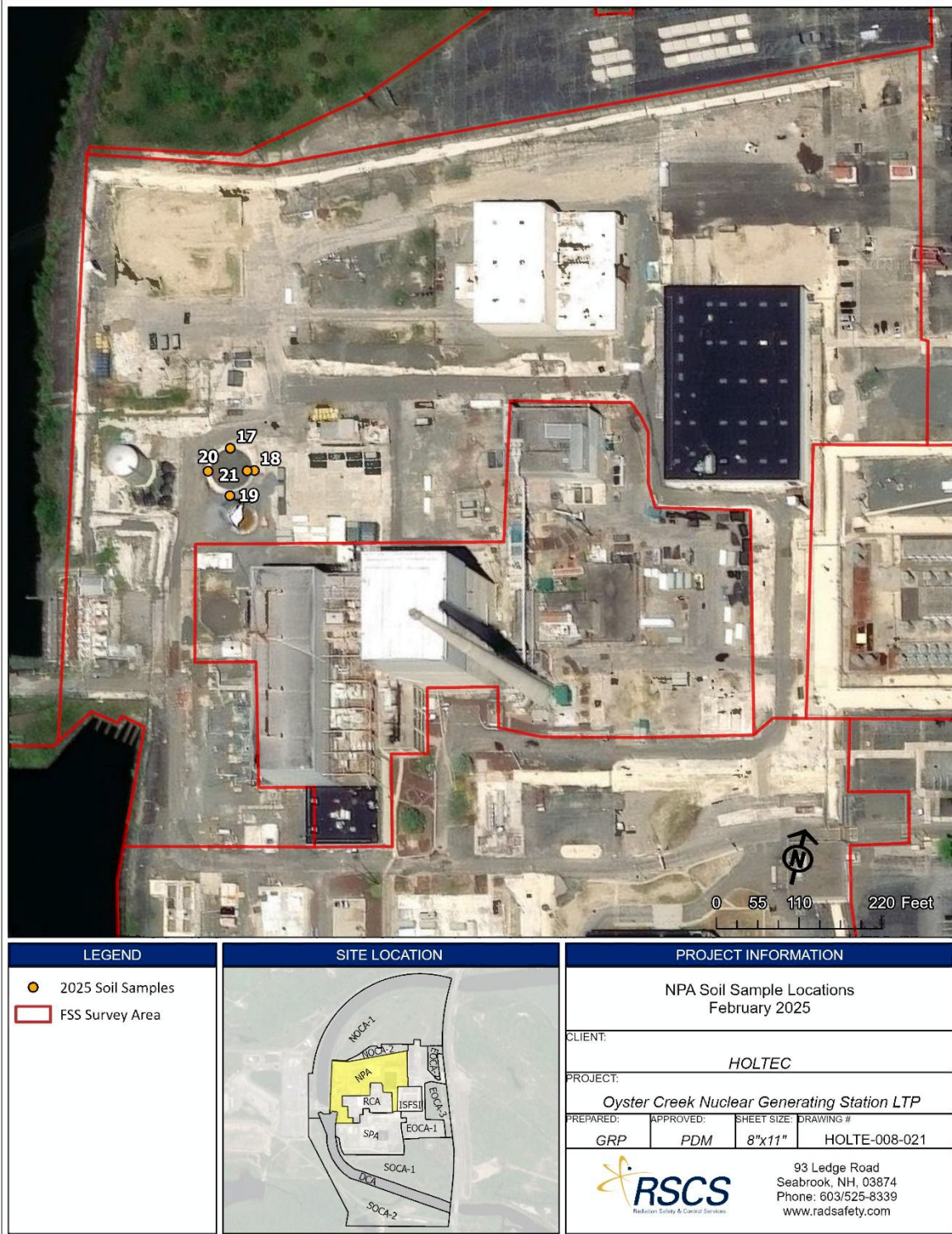


Figure 3-2 TWST Sample Locations

3.2.3 Survey Data Summary

Discussion

Cesium-137 was detected at concentrations greater than the MDC values in 12 of 29 samples and identified at sample depths as seen in Table 3-22, the bolded results in the tabular data indicate positive results or >MDC, where non-bold values are MDC. Cobalt-60 was detected at concentrations greater than the MDC in 3 of 29 samples and identified at only the surface soil depth. Carbon-14 was detected at concentrations greater than the MDC in 2 of 29 samples and identified at only the surface soil depth. Minimum, Maximum, Average and Standard Deviation by sample depth are found in Table 3-23 through Table 3-29. The average is skewed high, and the standard deviation is skewed low by using MDC rather than a minimum value that may be less than MDC

Gamma analysis reports for 4 of 5 soil samples (NPA-SOIL-017-B, NPA-SOIL-018-B, NPA-SOIL-019-B, and NPA-SOIL-020-B) detected concentrations greater than the MDC for Cs-137. The positive findings are all less than 1.73E-01 pCi/g, which is less than 7% of the Class 2 assessment criteria for Cs-137 (2.88E+00 pCi/g). Additionally, 3 of 5 soil samples (NPA-SOIL-018-B, NPA-SOIL-019-B, and NPA-SOIL-020-B) detected concentrations greater than the MDC for Co-60. The positive findings are all less than 9.51E-02 pCi/g, which is less than 8% of the Class 2 assessment criteria for Co-60 (1.22E+00 pCi/g).

Two of the four samples at a depth up to 2 feet, NPA-DEP1-018-B and NPA-DEP1-019-B, detected concentrations greater than the MDC for Cs-137. Gamma analysis reports show the maximum Cs-137 concentration (NPA-DEP1-018-B) to be 1.74E-01 pCi/g, which is less than 7% of the Class 2 AC for Cs-137.

Two of the four samples at a depth between 2 and 4 feet, NPA-DEP1-018-B and NPA-DEP1-019-B, detected concentrations greater than the MDC for Cs-137. Gamma analysis reports show the maximum Cs-137 concentration (NPA-DEP1-018-B) to be 8.64E-02 pCi/g, which is approximately 3% of the Class 2 AC for Cs-137.

One sample at a depth between 4 and 6 feet, NPA-DEP3-018-B, gamma analysis report shows the Cs-137 concentration to be 1.51E-01 pCi/g, which is less than 6% of the Class 2 AC for Cs-137.

One sample at a depth between 6 and 8 feet, NOCA2-DEP4-018-B, gamma analysis report shows the Cs-137 concentration to be 1.07E-01 pCi/g, which is less than 4% of the Class 2 AC for Cs-137.

One sample at a depth between 8 and 10 feet, NOCA2-DEP5-018-B, gamma analysis report shows the Cs-137 concentration to be 4.10E-02 pCi/g, which is less than 2% of the Class 2 AC for Cs-137.

One sample at a depth between 4 and 6 feet, NOCA2-DEP3-007-B, gamma analysis report shows the Cs-137 concentration to be 1.61E-02 pCi/g, which is less than 1% of the Class 2 AC for Cs-137.

Two of the five soil samples, NPA-DEP1-019-B and NPA-DEP1-021-B, detected concentrations greater than the MDC for C-14. Hard to Detect beta analysis reports show the maximum C-14 concentration (NPA-DEP1-021-B) to be 4.35E+00 pCi/g, which is over 5 times the Class 2 AC for C-14 (8.50E-01 pCi/g).

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Samples at depths greater than 6 inches did not indicate the presence of Co-60 above the achieved MDC values. With the exception of C-14 noted above, no HTD ROCs (alpha and beta) were detected above the achieved MDC values.

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Table 3-22 TWST Sample Analysis Results

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-017-B	1.15E-02	1.80E-02	3.22E-02	3.31E-02	1.10E-02	1.14E-02	2.95E-02
NPA-DEP1-017-B	1.13E-02	1.04E-02	3.19E-02	3.12E-02	1.15E-02	1.10E-02	3.00E-02
NPA-DEP2-017-B	1.41E-02	1.81E-02	3.11E-02	3.53E-02	1.42E-02	1.26E-02	3.09E-02
NPA-DEP3-017-B	1.42E-02	1.44E-02	3.82E-02	4.11E-02	1.51E-02	1.30E-02	3.38E-02
NPA-DEP4-017-B	1.16E-02	1.39E-02	4.18E-02	4.14E-02	1.29E-02	1.25E-02	3.29E-02
NPA-DEP5-017-B	1.17E-02	1.22E-02	3.13E-02	3.84E-02	1.20E-02	1.06E-02	3.25E-02
NPA-DEP6-017-B	1.14E-02	1.18E-02	2.99E-02	3.72E-02	1.12E-02	1.02E-02	2.78E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NPA-SOIL-017-B	1.68E-01	1.10E-01	1.10E-01	4.92E-02	1.86E-01	2.21E-01	2.21E-01
NPA-DEP1-017-B	2.29E-01	1.34E-01	1.34E-01	5.40E-02	1.77E-01	1.39E-01	1.39E-01
NPA-DEP2-017-B	1.41E-01	6.81E-02	6.81E-02	5.62E-02	1.52E-01	1.76E-01	1.76E-01
NPA-DEP3-017-B	2.23E-01	1.28E-01	1.28E-01	5.45E-02	2.38E-01	2.83E-01	2.83E-01
NPA-DEP4-017-B	2.94E-01	1.60E-01	1.60E-01	5.21E-02	3.63E-01	3.63E-01	3.63E-01
NPA-DEP5-017-B	1.81E-01	7.32E-02	7.32E-02	5.02E-02	1.92E-01	2.81E-01	2.81E-01
NPA-DEP6-017-B	2.21E-01	1.32E-01	1.32E-01	4.23E-02	3.85E-01	4.31E-01	4.31E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NPA-SOIL-017-B	3.52E+00	1.77E+02	1.61E+01	2.49E+01	2.18E-01	3.02E+01	4.33E-01
NPA-DEP1-017-B	3.60E+00	2.02E+02	1.61E+01	2.44E+01	2.09E-01	2.51E+01	3.98E-01
NPA-DEP2-017-B	3.57E+00	1.70E+02	1.56E+01	2.24E+01	1.68E-01	2.08E+01	4.18E-01
NPA-DEP3-017-B	3.26E+00	1.94E+02	1.66E+01	2.34E+01	1.54E-01	2.71E+01	4.47E-01
NPA-DEP4-017-B	3.57E+00	1.95E+02	1.62E+01	2.44E+01	1.60E-01	2.71E+01	4.13E-01
NPA-DEP5-017-B	3.55E+00	2.01E+02	1.58E+01	2.43E+01	2.08E-01	2.61E+01	4.04E-01
NPA-DEP6-017-B	3.58E+00	1.97E+02	1.59E+01	2.42E+01	1.57E-01	3.04E+01	4.11E-01

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Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-018-B	9.51E-02	1.73E-01	3.69E-02	2.96E-02	1.35E-02	9.17E-03	3.38E-02
NPA-DEP1-018-B	1.17E-02	1.74E-01	3.42E-02	2.50E-02	1.24E-02	1.30E-02	3.19E-02
NPA-DEP2-018-B	1.66E-02	8.64E-02	3.52E-02	2.98E-02	1.16E-02	1.22E-02	3.92E-02
NPA-DEP3-018-B	1.67E-02	1.51E-01	3.59E-02	3.70E-02	1.16E-02	1.15E-02	3.49E-02
NPA-DEP4-018-B	8.83E-03	1.07E-01	2.43E-02	1.75E-02	8.81E-03	7.61E-03	2.47E-02
NPA-DEP5-018-B	7.23E-03	4.10E-02	3.10E-02	3.84E-02	9.28E-03	9.88E-03	2.56E-02
NPA-DEP6-018-B	1.78E-02	1.61E-02	3.45E-02	5.05E-02	1.59E-02	1.40E-02	4.04E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NPA-SOIL-018-B	2.66E-01	1.28E-01	1.28E-01	4.55E-02	2.29E-01	1.67E-01	1.67E-01
NPA-DEP1-018-B	2.65E-01	1.36E-01	1.36E-01	5.71E-02	3.30E-01	3.51E-01	3.51E-01
NPA-DEP2-018-B	2.40E-01	1.16E-01	1.16E-01	6.54E-02	4.72E-01	4.44E-01	4.44E-01
NPA-DEP3-018-B	2.24E-01	6.40E-02	6.40E-02	4.86E-02	2.86E-01	2.69E-01	2.69E-01
NPA-DEP4-018-B	1.98E-01	1.69E-01	1.69E-01	2.63E-02	1.41E-01	1.03E-01	1.03E-01
NPA-DEP5-018-B	2.70E-01	1.65E-01	1.65E-01	4.35E-02	1.33E-01	1.95E-01	1.95E-01
NPA-DEP6-018-B	2.63E-01	7.39E-02	7.39E-02	5.96E-02	6.63E-02	1.06E-01	1.06E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NPA-SOIL-018-B	3.24E+00	2.05E+02	1.57E+01	2.32E+01	1.48E-01	3.36E+01	4.82E-01
NPA-DEP1-018-B	3.56E+00	1.90E+02	1.61E+01	2.52E+01	2.84E-01	3.20E+01	4.37E-01
NPA-DEP2-018-B	3.64E+00	1.82E+02	1.60E+01	2.43E+01	1.38E-01	4.36E+01	4.16E-01
NPA-DEP3-018-B	3.55E+00	1.99E+02	1.61E+01	2.32E+01	2.34E-01	2.57E+01	4.03E-01
NPA-DEP4-018-B	3.23E+00	1.99E+02	1.52E+01	2.26E+01	1.74E-01	2.05E+01	4.17E-01
NPA-DEP5-018-B	3.62E+00	1.84E+02	1.67E+01	2.33E+01	1.12E-01	2.30E+01	4.08E-01
NPA-DEP6-018-B	3.65E+00	1.72E+02	1.62E+01	2.26E+01	1.29E-01	2.14E+01	4.13E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-019-B	3.14E-02	8.14E-02	3.79E-02	4.12E-02	1.07E-02	1.11E-02	3.19E-02
NPA-DEP1-019-B	9.65E-03	2.25E-02	2.66E-02	1.97E-02	9.96E-03	9.36E-03	2.51E-02
NPA-DEP2-019-B	1.25E-02	1.67E-02	3.47E-02	3.96E-02	1.22E-02	9.89E-03	2.83E-02
NPA-DEP3-019-B	1.88E-02	1.61E-02	3.95E-02	4.26E-02	1.55E-02	1.48E-02	3.84E-02
NPA-DEP4-019-B	1.59E-02	1.29E-02	4.05E-02	4.53E-02	1.42E-02	1.54E-02	3.88E-02
NPA-DEP5-019-B	1.52E-02	1.38E-02	3.13E-02	4.63E-02	1.34E-02	1.15E-02	3.16E-02
NPA-DEP6-019-B	9.64E-03	1.29E-02	2.76E-02	3.33E-02	1.11E-02	1.06E-02	2.91E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
NPA-SOIL-019-B	1.84E-01	1.01E-01	1.01E-01	3.60E-02	1.43E-01	7.05E-02	7.05E-02
NPA-DEP1-019-B	2.17E-01	1.61E-01	1.61E-01	3.22E-02	1.91E-01	2.67E-01	2.67E-01
NPA-DEP2-019-B	4.43E-01	2.66E-01	2.66E-01	4.83E-02	1.46E-01	1.46E-01	1.46E-01
NPA-DEP3-019-B	1.84E-01	2.49E-01	2.49E-01	3.51E-02	3.05E-01	2.81E-01	2.81E-01
NPA-DEP4-019-B	3.41E-01	1.83E-01	1.83E-01	3.82E-02	1.57E-01	2.30E-01	2.30E-01
NPA-DEP5-019-B	3.17E-01	2.36E-01	2.36E-01	4.26E-02	1.65E-01	2.41E-01	2.41E-01
NPA-DEP6-019-B	2.78E-01	2.11E-01	2.11E-01	4.75E-02	2.00E-01	2.00E-01	2.00E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NPA-SOIL-019-B	4.02E+00	1.46E+01	1.56E+01	8.38E+00	3.05E-01	2.69E+01	4.91E-01
NPA-DEP1-019-B	4.50E+00	7.21E+01	9.60E+00	1.82E+01	1.30E-01	1.72E+01	4.52E-01
NPA-DEP2-019-B	4.47E+00	7.94E+01	9.79E+00	1.94E+01	2.70E-01	1.65E+01	4.75E-01
NPA-DEP3-019-B	4.46E+00	7.79E+01	9.83E+00	1.87E+01	1.65E-01	1.90E+01	4.80E-01
NPA-DEP4-019-B	4.50E+00	8.21E+01	1.00E+01	2.06E+01	1.85E-01	1.80E+01	4.75E-01
NPA-DEP5-019-B	4.49E+00	8.94E+01	9.59E+00	2.22E+01	2.08E-01	1.78E+01	4.63E-01
NPA-DEP6-019-B	4.41E+00	8.96E+01	9.44E+00	1.89E+01	1.88E-01	1.56E+01	4.55E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-020-B	1.90E-02	5.79E-02	4.08E-02	5.24E-02	1.48E-02	1.38E-02	4.06E-02
NPA-DEP1-020-B	1.23E-02	1.11E-02	3.28E-02	2.82E-02	1.09E-02	1.09E-02	2.87E-02
NPA-DEP2-020-B	1.27E-02	1.45E-02	3.29E-02	3.53E-02	1.05E-02	1.03E-02	2.80E-02
NPA-DEP3-020-B	9.54E-03	1.32E-02	3.33E-02	3.39E-02	1.31E-02	1.10E-02	3.15E-02
NPA-DEP4-020-B	1.48E-02	1.24E-02	3.77E-02	3.78E-02	1.42E-02	1.42E-02	3.65E-02
NPA-DEP5-020-B	1.64E-02	1.37E-02	3.09E-02	4.29E-02	1.57E-02	1.38E-02	3.72E-02
NPA-DEP6-020-B	1.08E-02	1.41E-02	3.63E-02	3.62E-02	1.35E-02	1.43E-02	3.53E-02
Alpha (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-020-B	1.87E-01	6.35E-02	6.35E-02	6.56E-02	9.25E-02	8.00E-02	8.00E-02
NPA-DEP1-020-B	2.98E-01	2.59E-01	2.59E-01	4.45E-02	1.24E-01	6.73E-02	6.73E-02
NPA-DEP2-020-B	3.61E-01	2.53E-01	2.53E-01	3.23E-02	1.33E-01	1.70E-01	1.70E-01
NPA-DEP3-020-B	3.46E-01	2.74E-01	2.74E-01	3.72E-02	1.77E-01	1.49E-01	1.49E-01
NPA-DEP4-020-B	3.92E-01	2.23E-01	2.23E-01	4.24E-02	1.02E-01	1.18E-01	1.18E-01
NPA-DEP5-020-B	2.50E-01	2.38E-01	2.38E-01	3.55E-02	4.19E-01	3.33E-01	3.33E-01
NPA-DEP6-020-B	3.50E-01	2.66E-01	2.66E-01	2.55E-02	1.09E-01	1.26E-01	1.26E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NPA-SOIL-020-B	3.89E+00	1.43E+01	1.60E+01	8.40E+00	1.65E-01	1.83E+01	5.08E-01
NPA-DEP1-020-B	3.60E+00	1.15E+02	1.23E+01	1.73E+01	2.49E-01	2.87E+01	4.06E-01
NPA-DEP2-020-B	3.60E+00	1.09E+02	1.30E+01	1.70E+01	4.12E-01	2.37E+01	4.11E-01
NPA-DEP3-020-B	4.33E+00	1.12E+02	9.41E+00	1.64E+01	2.46E-01	3.37E+01	4.43E-01
NPA-DEP4-020-B	4.51E+00	9.01E+01	9.49E+00	1.74E+01	3.31E-01	2.76E+01	4.36E-01
NPA-DEP5-020-B	4.52E+00	1.07E+02	9.60E+00	1.54E+01	1.99E-01	2.66E+01	4.48E-01
NPA-DEP6-020-B	4.49E+00	1.08E+02	9.87E+00	1.92E+01	1.88E-01	2.80E+01	4.43E-01

SECTION THREE

Radiological Findings

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-021-B	1.55E-02	1.70E-02	3.73E-02	4.74E-02	1.54E-02	1.25E-02	3.53E-02
Alpha (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
NPA-SOIL-021-B	2.07E-01	1.20E-01	1.20E-01	4.02E-02	1.47E-01	1.68E-01	1.68E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
NPA-SOIL-021-B	4.35E+00	1.52E+02	1.59E+01	1.99E+01	1.39E-01	1.88E+01	4.07E-01

Table 3-23 TWST Soil Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.15E-02	1.70E-02	3.22E-02	2.96E-02	1.07E-02	9.17E-03	2.95E-02
Max	9.51E-02	1.73E-01	4.08E-02	5.24E-02	1.54E-02	1.38E-02	4.06E-02
Average	3.45E-02	6.95E-02	3.70E-02	4.07E-02	1.31E-02	1.16E-02	3.42E-02
Standard Deviation	3.47E-02	6.40E-02	3.10E-03	9.53E-03	2.15E-03	1.72E-03	4.17E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.68E-01	6.35E-02	6.35E-02	3.60E-02	9.25E-02	7.05E-02	7.05E-02
Max	2.66E-01	1.28E-01	1.28E-01	6.56E-02	2.29E-01	2.21E-01	2.21E-01
Average	2.02E-01	1.05E-01	1.05E-01	4.73E-02	1.60E-01	1.41E-01	1.41E-01
Standard Deviation	3.80E-02	2.51E-02	2.51E-02	1.14E-02	5.11E-02	6.42E-02	6.42E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.24E+00	1.43E+01	1.56E+01	8.38E+00	1.39E-01	1.83E+01	4.07E-01
Max	4.35E+00	2.05E+02	1.61E+01	2.49E+01	3.05E-01	3.36E+01	5.08E-01
Average	3.80E+00	1.13E+02	1.59E+01	1.70E+01	1.95E-01	2.56E+01	4.64E-01
Standard Deviation	4.33E-01	9.15E+01	2.07E-01	8.02E+00	6.87E-02	6.83E+00	4.24E-02

Table 3-24 TWST DEP1 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.65E-03	1.04E-02	2.66E-02	1.97E-02	9.96E-03	9.36E-03	2.51E-02
Max	1.23E-02	1.74E-01	3.42E-02	3.12E-02	1.24E-02	1.30E-02	3.19E-02
Average	1.12E-02	5.45E-02	3.14E-02	2.60E-02	1.12E-02	1.11E-02	2.89E-02
Standard Deviation	1.14E-03	7.99E-02	3.32E-03	4.92E-03	1.03E-03	1.49E-03	2.87E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.17E-01	1.34E-01	1.34E-01	3.22E-02	1.24E-01	6.73E-02	6.73E-02
Max	2.98E-01	2.59E-01	2.59E-01	5.71E-02	3.30E-01	3.51E-01	3.51E-01
Average	2.52E-01	1.73E-01	1.73E-01	4.70E-02	2.06E-01	2.06E-01	2.06E-01
Standard Deviation	3.66E-02	5.90E-02	5.90E-02	1.12E-02	8.79E-02	1.27E-01	1.27E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.56E+00	7.21E+01	9.60E+00	1.73E+01	1.30E-01	1.72E+01	3.98E-01
Max	4.50E+00	2.02E+02	1.61E+01	2.52E+01	2.84E-01	3.20E+01	4.52E-01
Average	3.82E+00	1.45E+02	1.35E+01	2.13E+01	2.18E-01	2.58E+01	4.23E-01
Standard Deviation	4.57E-01	6.19E+01	3.17E+00	4.10E+00	6.62E-02	6.36E+00	2.55E-02

Table 3-25 TWST DEP2 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.25E-02	1.45E-02	3.11E-02	2.98E-02	1.05E-02	9.89E-03	2.80E-02
Max	1.66E-02	8.64E-02	3.52E-02	3.96E-02	1.42E-02	1.26E-02	3.92E-02
Average	1.40E-02	3.39E-02	3.35E-02	3.50E-02	1.21E-02	1.12E-02	3.16E-02
Standard Deviation	1.89E-03	3.50E-02	1.87E-03	4.02E-03	1.55E-03	1.35E-03	5.23E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.41E-01	6.81E-02	6.81E-02	3.23E-02	1.33E-01	1.46E-01	1.46E-01
Max	4.43E-01	2.66E-01	2.66E-01	6.54E-02	4.72E-01	4.44E-01	4.44E-01
Average	2.96E-01	1.76E-01	1.76E-01	5.06E-02	2.26E-01	2.34E-01	2.34E-01
Standard Deviation	1.33E-01	9.88E-02	9.88E-02	1.40E-02	1.64E-01	1.41E-01	1.41E-01
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.57E+00	7.94E+01	9.79E+00	1.70E+01	1.38E-01	1.65E+01	4.11E-01
Max	4.47E+00	1.82E+02	1.60E+01	2.43E+01	4.12E-01	4.36E+01	4.75E-01
Average	3.82E+00	1.35E+02	1.36E+01	2.08E+01	2.47E-01	2.62E+01	4.30E-01
Standard Deviation	4.34E-01	4.90E+01	2.87E+00	3.23E+00	1.24E-01	1.20E+01	3.01E-02

Table 3-26 TWST DEP3 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.54E-03	1.32E-02	3.33E-02	3.39E-02	1.16E-02	1.10E-02	3.15E-02
Max	1.88E-02	1.51E-01	3.95E-02	4.26E-02	1.55E-02	1.48E-02	3.84E-02
Average	1.48E-02	4.87E-02	3.67E-02	3.87E-02	1.38E-02	1.26E-02	3.47E-02
Standard Deviation	3.98E-03	6.82E-02	2.73E-03	3.95E-03	1.82E-03	1.71E-03	2.87E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.84E-01	6.40E-02	6.40E-02	3.51E-02	1.77E-01	1.49E-01	1.49E-01
Max	3.46E-01	2.74E-01	2.74E-01	5.45E-02	3.05E-01	2.83E-01	2.83E-01
Average	2.44E-01	1.79E-01	1.79E-01	4.39E-02	2.52E-01	2.46E-01	2.46E-01
Standard Deviation	7.05E-02	9.96E-02	9.96E-02	9.25E-03	5.71E-02	6.46E-02	6.46E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.26E+00	7.79E+01	9.41E+00	1.64E+01	1.54E-01	1.90E+01	4.03E-01
Max	4.46E+00	1.99E+02	1.66E+01	2.34E+01	2.46E-01	3.37E+01	4.80E-01
Average	3.90E+00	1.46E+02	1.30E+01	2.04E+01	2.00E-01	2.64E+01	4.43E-01
Standard Deviation	5.86E-01	6.03E+01	3.89E+00	3.45E+00	4.69E-02	6.03E+00	3.15E-02

Table 3-27 TWST DEP4 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	8.83E-03	1.24E-02	2.43E-02	1.75E-02	8.81E-03	7.61E-03	2.47E-02
Max	1.59E-02	1.07E-01	4.18E-02	4.53E-02	1.42E-02	1.54E-02	3.88E-02
Average	1.28E-02	3.66E-02	3.61E-02	3.55E-02	1.25E-02	1.24E-02	3.32E-02
Standard Deviation	3.20E-03	4.70E-02	8.03E-03	1.24E-02	2.55E-03	3.42E-03	6.18E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.98E-01	1.60E-01	1.60E-01	2.63E-02	1.02E-01	1.03E-01	1.03E-01
Max	3.92E-01	2.23E-01	2.23E-01	5.21E-02	3.63E-01	3.63E-01	3.63E-01
Average	3.06E-01	1.84E-01	1.84E-01	3.98E-02	1.91E-01	2.04E-01	2.04E-01
Standard Deviation	8.24E-02	2.78E-02	2.78E-02	1.07E-02	1.17E-01	1.20E-01	1.20E-01
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.23E+00	8.21E+01	9.49E+00	1.74E+01	1.60E-01	1.80E+01	4.13E-01
Max	4.51E+00	1.99E+02	1.62E+01	2.44E+01	3.31E-01	2.76E+01	4.75E-01
Average	3.95E+00	1.42E+02	1.27E+01	2.13E+01	2.13E-01	2.33E+01	4.35E-01
Standard Deviation	6.53E-01	6.41E+01	3.47E+00	3.00E+00	7.97E-02	4.79E+00	2.83E-02

Table 3-28 TWST DEP5 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	7.23E-03	1.22E-02	3.09E-02	3.84E-02	9.28E-03	9.88E-03	2.56E-02
Max	1.64E-02	4.10E-02	3.13E-02	4.63E-02	1.57E-02	1.38E-02	3.72E-02
Average	1.26E-02	2.02E-02	3.11E-02	4.15E-02	1.26E-02	1.14E-02	3.17E-02
Standard Deviation	4.12E-03	1.39E-02	2.06E-04	3.84E-03	2.69E-03	1.70E-03	4.76E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.81E-01	7.32E-02	7.32E-02	3.55E-02	1.33E-01	1.95E-01	1.95E-01
Max	3.17E-01	2.38E-01	2.38E-01	5.02E-02	4.19E-01	3.33E-01	3.33E-01
Average	2.55E-01	1.78E-01	1.78E-01	4.30E-02	2.27E-01	2.63E-01	2.63E-01
Standard Deviation	5.64E-02	7.77E-02	7.77E-02	6.01E-03	1.30E-01	5.87E-02	5.87E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.55E+00	8.94E+01	9.59E+00	1.54E+01	1.12E-01	1.78E+01	4.04E-01
Max	4.52E+00	2.01E+02	1.67E+01	2.43E+01	2.08E-01	2.66E+01	4.63E-01
Average	4.05E+00	1.45E+02	1.29E+01	2.13E+01	1.82E-01	2.34E+01	4.31E-01
Standard Deviation	5.32E-01	5.54E+01	3.86E+00	4.03E+00	4.67E-02	4.04E+00	2.93E-02

Table 3-29 TWST DEP6 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.64E-03	1.18E-02	2.76E-02	3.33E-02	1.11E-02	1.02E-02	2.78E-02
Max	1.78E-02	1.61E-02	3.63E-02	5.05E-02	1.59E-02	1.43E-02	4.04E-02
Average	1.24E-02	1.37E-02	3.21E-02	3.93E-02	1.29E-02	1.23E-02	3.32E-02
Standard Deviation	3.67E-03	1.84E-03	4.02E-03	7.65E-03	2.27E-03	2.17E-03	5.84E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.21E-01	7.39E-02	7.39E-02	2.55E-02	6.63E-02	1.06E-01	1.06E-01
Max	3.50E-01	2.66E-01	2.66E-01	5.96E-02	3.85E-01	4.31E-01	4.31E-01
Average	2.78E-01	1.71E-01	1.71E-01	4.37E-02	1.90E-01	2.16E-01	2.16E-01
Standard Deviation	5.38E-02	8.48E-02	8.48E-02	1.41E-02	1.41E-01	1.49E-01	1.49E-01
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.58E+00	8.96E+01	9.44E+00	1.89E+01	1.29E-01	1.56E+01	4.11E-01
Max	4.49E+00	1.97E+02	1.62E+01	2.42E+01	1.88E-01	3.04E+01	4.55E-01
Average	4.03E+00	1.42E+02	1.29E+01	2.12E+01	1.66E-01	2.39E+01	4.31E-01
Standard Deviation	4.84E-01	5.11E+01	3.70E+00	2.60E+00	2.84E-02	6.69E+00	2.19E-02

3.2.4 Data Quality Comparisons

On-Site Duplicate Counts

No duplicate samples were analyzed for this area.

On-Site / Off-Site Laboratory Comparisons

The comparisons of sample results for the QC of the TWST samples are shown in Table 3-30 through Table 3-36. The comparisons were all found to be acceptable. Agreement is assumed when results are below the achieved MDC value.

Table 3-30 On-Site/Off-Site Laboratory Comparisons for TWST Soil Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-SOIL-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.80E-02	6.07E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-SOIL-018-B	Co-60	< MDC				9.51E-02	1.02E-02		N/A
	Cs-137	1.83E-01	3.77E-02	4.85	0.5 - 2	1.73E-01	1.16E-02	0.95	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-SOIL-019-B	Co-60	< MDC				3.14E-02	5.15E-03		N/A
	Cs-137	< MDC				8.14E-02	7.04E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-SOIL-020-B	Co-60	< MDC				1.90E-02	6.89E-03		N/A
	Cs-137	< MDC				5.79E-02	8.06E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-SOIL-021-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Table 3-31 On-Site/Off-Site Laboratory Comparisons for TWST DEP1 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP1-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP1-018-B	Co-60	< MDC				< MDC			N/A
	Cs-137	1.65E-01	3.85E-02	4.29	0.5 – 2	1.74E-01	1.13E-02	1.05	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP1-019-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.25E-02	4.37E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP1-020-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-32 On-Site/Off-Site Laboratory Comparisons for TWST DEP2 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP2-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP2-018-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				8.64E-02	7.70E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP2-019-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.67E-02	7.24E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP2-020-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-33 On-Site/Off-Site Laboratory Comparisons for TWST DEP3 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP3-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP3-018-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.51E-01	9.54E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP3-019-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP3-020-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-34 On-Site/Off-Site Laboratory Comparisons for TWST DEP4 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP4-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP4-018-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.07E-01	7.35E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP4-019-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP4-020-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-35 On-Site/Off-Site Laboratory Comparisons for TWST DEP5 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP5-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP5-018-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				4.10E-02	5.82E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP5-019-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP5-020-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-36 On-Site/Off-Site Laboratory Comparisons for TWST DEP6 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP6-017-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP6-018-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.61E-02	7.76E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
NPA-DEP6-019-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
NPA-DEP6-020-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

3.2.5 Survey Plan Deviations

No survey plan deviations were required for the TWST survey area.

3.2.6 Survey Area Investigations

None.

3.2.7 Survey Area Conclusions

The following conclusions were reached for the NPA survey area:

- The Cs-137 and Co-60 concentrations found in NPA samples do not require excavation or remediation to meet site release criteria at this time. The current radiological status may change as active decommissioning of the site commences.
- Radiological status changes may warrant additional site characterization collection to support FSS planning.
- Additional characterization in yard areas, including walk-over gamma scans and soil sampling, should be considered when the waste containers are removed.

3.3 RCA

3.3.1 Area Description

The RCA is located east and north of the west side of the power block and is illustrated in **Error! Reference source not found.** It is a 22,133 m² area covered with asphalt-covered roadways storage areas, concrete pads, and buildings and structures. The RCA Yard area stores radioactive material and containers and supports radioactive material and waste shipments. According to historical records and interviews, several spills occurred in the RCA Yard. Areas were remediated or paved over to contain radioactive material. The yard storm drains are believed to be contaminated by the operation of the isolation condensers and spills. The area under the isolation condensers was found contaminated after auto initiation of the isolation condensers in 2007.

3.3.2 Survey Summary

Survey Dates: 1/28/2025 through 2/26/2025

Survey and field activities were governed by an Addendum to SAP-10, Oyster Creek Nuclear Generating Station Open Land Area Survey Plan: Radiologically Controlled Area and TSD 24-111, *Surface/Sub Surface Characterization Survey Plan for Oyster Creek Nuclear Generating Station*.

The objective of the SAP-10 addendum is to collect additional soil data to evaluate the presence of Hard-to-Detect (HTD), which provides additional HTD information for the License Termination Plan (LTP). In the original SAP-10 survey, not all samples were analyzed for the full HTD ROC suite. A comprehensive review of the data collected using SAP-10 resulted in identification of 6 locations of elevated Easy-to-Detect gamma ROCs for further investigation in the RCA. The SAP 10 locations are identified in Table 3-37.

Table 3-37 SAP 10 and SAP 10 Addendum sample Numbers

SAP 10 Sample Designator	Addendum Sample Designator
RCA-SOIL-05-B	RCA-SOIL-21-B-QC-I
RCA-SOIL-07-B	RCA-SOIL-22-B-QC-I
RCA-SOIL-08-B	RCA-SOIL-23-B-QC-I
RCA-SOIL-11-B	RCA-SOIL-24-B-QC-I
RCA-SOIL-12-B-D	RCA-SOIL-25-B-D-QC-I
RCA-SOIL-20-B-QC	RCA-SOIL-26-B-QC-I

The objective of TSD-24-111 is to:

- Supplement existing surface sample data in the RCA where HTD nuclides are most likely present.
- Determine the contamination from known spills or contamination identified in the Historical Site Assessment (HSA) and initial characterization surveys. Specifically targeting the Old Radioactive Waste Loading Dock and the Old Radioactive Waste Surge Tank (RWST).

- Confirm consistency of onsite and contracted commercial laboratory analysis for gamma spectroscopy, specifically for the quantification of Co-60 and Cs-137 as the primary Target ROCs.
- Demonstrate that onsite gamma spectroscopy is an effective screening tool for suspicion of HTD nuclides

During the execution of the survey plan, field labeling of samples followed the information shown in Attachment 2 of the survey plan. Upon data review it was identified that the sample numbers were not in sequential order with previous RCA characterization survey samples. Therefore, to prevent any confusion in survey data, the samples were renumbered following analysis. Table 3-38 shows the field sample numbers and the numbers reported.

Table 3-38 RCA Sample Number Replacement

Field Sample Number	Reported Sample Number
RCA-BBBB-01-B	RCA-BBBB-027-B
RCA-BBBB-02-B	RCA-BBBB-028-B
RCA-BBBB-03-B	RCA-BBBB-029-B
RCA-BBBB-04-B	RCA-BBBB-030-B
RCA-BBBB-05-B	RCA-BBBB-031-B
RCA-BBBB-06-B	RCA-BBBB-032-B
RCA-BBBB-07-B	RCA-BBBB-033-B
RCA-BBBB-08-B	RCA-BBBB-034-B
RCA-BBBB-09-B	RCA-BBBB-035-B
RCA-BBBB-10-B	RCA-BBBB-036-B
RCA-BBBB-11-B	RCA-BBBB-037-B
RCA-BBBB-12-B	RCA-BBBB-038-B
RCA-BBBB-13-B	RCA-BBBB-039-B
RCA-BBBB-14-B	RCA-BBBB-040-B
RCA-BBBB-15-B	RCA-BBBB-041-B
RCA-BBBB-16-B	RCA-BBBB-042-B
RCA-BBBB-29-B	RCA-BBBB-043-B
RCA-BBBB-31-B-I	RCA-BBBB-044-B-I
RCA-BBBB-32-B-I	RCA-BBBB-045-B-I
RCA-BBBB-33-B-I	RCA-BBBB-046-B-I
RCA-BBBB-34-B-I	RCA-BBBB-047-B-I
RCA-BBBB-35-B-I	RCA-BBBB-048-B-I
RCA-BBBB-36-B-I	RCA-BBBB-049-B-I
RCA-BBBB-37-B-I	RCA-BBBB-050-B-I
RCA-BBBB-38-B-I	RCA-BBBB-051-B-I
RCA-BBBB-39-B-I	RCA-BBBB-052-B-I
RCA-BBBB-40-B-I	RCA-BBBB-053-B-I
RCA-BBBB-41-B-I	RCA-BBBB-054-B-I
RCA-BBBB-42-B-I	RCA-BBBB-055-B-I
RCA-BBBB-43-B-I	RCA-BBBB-056-B-I
RCA-BBBB-44-B-I	RCA-BBBB-057-B-I
RCA-BBBB-45-B-I	RCA-BBBB-058-B-I

RCA-BBBB-46-B-I	RCA-BBBB-059-B-I
RCA-BBBB-47-B-I	RCA-BBBB-060-B-I
RCA-BBBB-48-B-I	RCA-BBBB-061-B-I

Survey planning for the Old Radioactive Waste Loading Dock area identified 8 sample locations, 4 sample locations around the perimeter of both the Condensate Storage Tank (CST) and the RWST. One sample location, RCA-033-B was relocated due to obstruction (concrete slab) at approximately 6 inches of depth. Therefore, the sample location was relocated to location RCA-043-B. Where the sample obtained from NPA-033-B were retained for analysis, GPS coordinates for the sample location were recorded during sampling to document the locations and are shown in Table 3-39. The relative sample locations are shown in **Error! Reference source not found.** A total of 246 samples were collected from the targeted RCA area; 8 asphalt samples, 41 surface soil samples, 197 samples at depths greater than 6 in. The number of samples by depth are as follows:

- 34 samples up to 2 feet (DEP1) and 2 to 4 feet (DEP2),
- 31 samples at 4 to 6 feet (DEP3),
- 26 samples at 6 to 8 feet (DEP4),
- 23 samples at 8 to 10 feet (DEP5),
- 21 samples at 10 to 12 feet (DEP6),
- 9 samples at 12 to 14 feet (DEP7) and 14 to 16 feet (DEP8), and
- 5 samples at 16 to 18 feet (DEP9) and 18 to 20 feet (DEP10).

All samples collected were from biased locations. Of the 246 samples, 6 investigational samples were planned (SAP 10 Addendum), 125 samples were investigational samples in the vicinity of the RWST.

Asphalt samples were obtained at the locations where the soil was covered by asphalt.

Per the SAP 10 addendum, gamma scans were performed using calibrated pairings of Ludlum Model 44-10 detectors with Model 3003 multi-detector survey meters at each sample location. The sample location was determined by performing a scan in a broader area than the original SAP called for (i.e., a 3x3 meter grid versus a 1x1 meter grid) around each sample point, with sampling occurring at the location exhibiting the highest audible distinction above the background.

Table 3-39 GPS Coordinates for Sample Locations in the RCA Survey Area

Sample Number	Easting	Northing
RCA-21-B-QC-I: Original location coordinates	575002.9071	357494.3582
RCA-021-B-QC-I: Sample relocation coordinates	574476.414617	357603.034415
RCA-022-B-QC-I	574858.7079	357485.9086
RCA-023-B-QC-I	574902.1352	357585.7445

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Sample Number	Easting	Northing
RCA-024-B-QC-I	574807.2910	357738.1374
RCA-025-B-QC-I	574802.8452	357750.9808
RCA-026-B-QC-I	574934.7228	357469.4062
RCA-01-B: Original location coordinates	574486.697986	357438.431674
RCA-27-B: Sample relocation coordinates	574483.156381	357429.154395
RCA-02-B: Original location coordinates	574542.227773	357417.741098
RCA-028-B: Sample relocation coordinates	574512.757219	357408.165012
RCA-03-B: Original location coordinates	574501.283587	357383.622072
RCA-029-B: Sample relocation coordinates	574492.307576	357381.386225
RCA-04-B: Original location coordinates	574467.484114	357404.852673
RCA-030-B: Sample relocation coordinates	574478.605909	357401.398530
RCA-05-B: Original location coordinates	574953.126187	357572.417954
RCA-031-B: Sample relocation coordinates	574935.610153	357578.712480
RCA-06-B: Original location coordinates	574933.629179	357577.126934
RCA-032-B: Sample relocation coordinates	574945.849518	357589.355446
RCA-07-B: Original location coordinates	574926.453012	357596.215807
RCA-033-B: Sample relocation coordinates	574942.087611	357562.980320
RCA-08-B: Original location coordinates	574942.394581	357612.332573
RCA-034-B: Sample relocation coordinates	574921.755102	357579.565348
RCA-09-B: Original location coordinates	575021.264174	357611.647206
RCA-035-B: Sample relocation coordinates	575021.575765	357609.911447
RCA-10-B: Original location coordinates	575024.774666	357597.666591
RCA-036-B: Sample relocation coordinates	575029.179930	357594.178771
RCA-11-B: Original location coordinates	575027.806812	357585.612810
RCA-037-B: Sample relocation coordinates	575033.117410	357580.608016
RCA-12-B: Original location coordinates	575039.415713	357601.732200
RCA-038-B: Sample relocation coordinates	575038.558401	357597.675826
RCA-13-B: Original location coordinates	575038.336647	357547.267414
RCA-039-B: Sample relocation coordinates	575039.608182	357555.503744
RCA-14-B: Original location coordinates	575041.360591	357536.234956
RCA-040-B: Sample relocation coordinates	575044.301500	357536.933193
RCA-15-B: Original location coordinates	575044.155861	357524.518772
RCA-041-B: Sample relocation coordinates	575047.354911	357524.865981
RCA-16-B: Original location coordinates	575052.66670	357538.622418
RCA-042-B: Sample relocation coordinates	575052.666785	357538.622602
RCA-43-B	574939.544205	357565.095446
RCA-44-B-I	574919.201202	357578.662193
RCA-45-B-I	574945.643587	357552.453170
RCA-46-B-I	574943.804790	357559.209208
RCA-47-B-I	574944.283183	357557.456233
RCA-48-B-I	574940.538614	357552.468017
RCA-49-B-I	574930.314415	357550.160779
RCA-50-B-I	574918.527033	357556.888319
RCA-51-B-I	574912.865599	357560.065612

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Sample Number	Easting	Northing
RCA-52-B-I	574909.572348	357575.409153
RCA-53-B-I	574886.741510	357540.658402
RCA-54-B-I	574921.118205	357566.853382
RCA-55-B-I	574922.585714	357562.119598
RCA-56-B-I	574924.814225	357557.165891
RCA-57-B-I	574925.919608	357552.288658
RCA-58-B-I	574927.384224	357547.974336
RCA-59-B-I	574911.974860	357551.794096
RCA-60-B-I	574904.410358	357562.857461
RCA-61-B-I	574887.803961	357549.430638

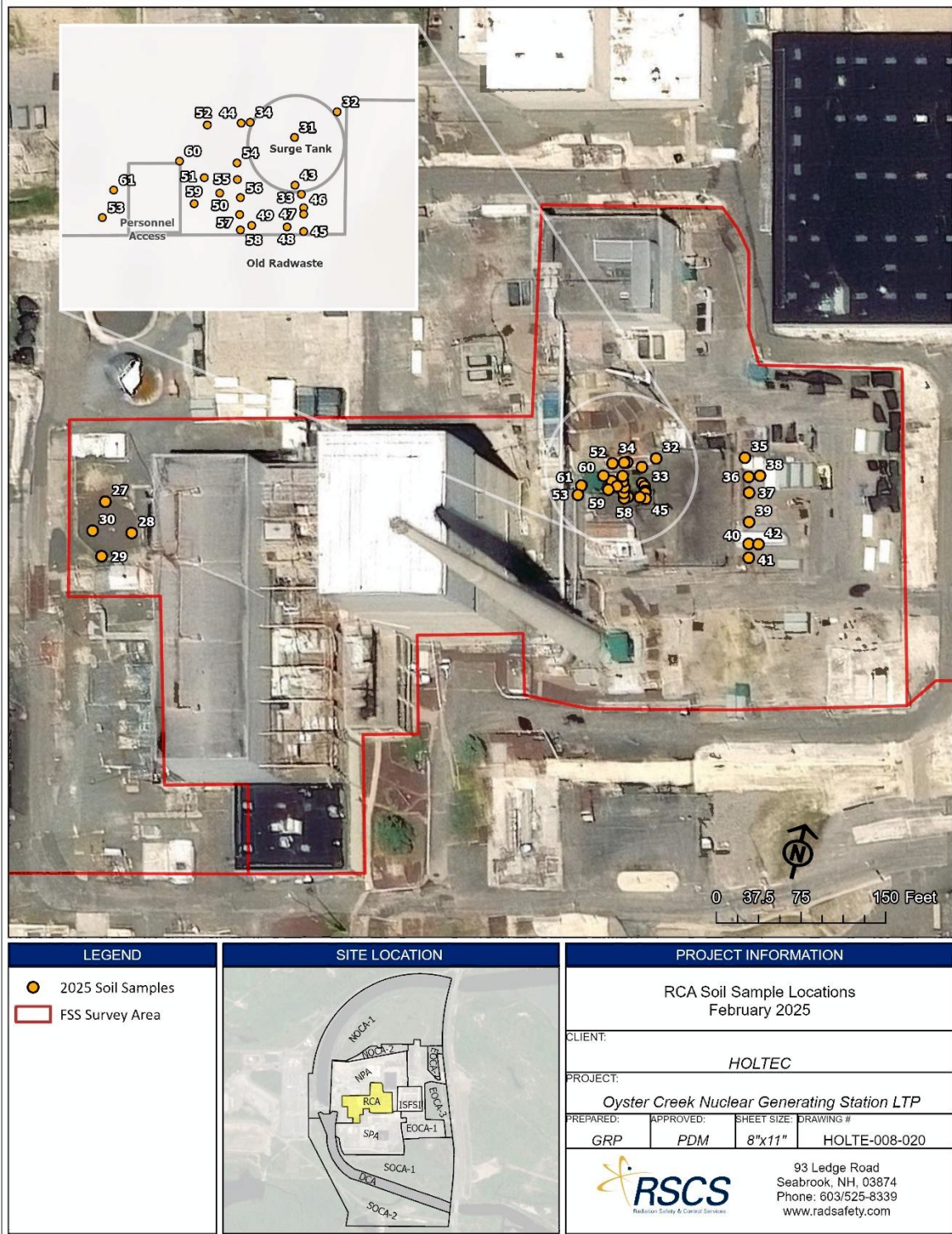


Figure 3-3 RCA Survey Area and Sample Locations

3.3.3 Survey Data Summary:

Discussion

Cesium-137 was detected at concentrations greater than the MDC values in the majority of the RCA samples (200 of 246) and identified at all samples depths as seen in Table 3-40 through Table 3-43, the bolded results in the tabular data indicate positive results or >MDC, where non-bold values are MDC. Cobalt-60 was detected at concentrations greater than the MDC in 77 of 246 samples and identified at only the surface soil depth. Carbon-14 was detected at concentrations greater than the MDC in 2 of 29 samples and identified at all depths with the exception of the 12 to 14 foot depth (DEP7). Minimum, Maximum, Average and Standard Deviation by sample depth are found in Table 3-44 through Table 3-55. The average is skewed high, and the standard deviation is skewed low by using MDC rather than a minimum value that may be less than MDC.

Gamma analysis reports for 6 of 8 asphalt samples detected concentrations greater than the MDC for Cs-137. The positive findings are all less than 2.22E+00 pCi/g, which is less than 39% of the Class 1 assessment criteria for Cs-137 (5.76E+00 pCi/g). Additionally, 5 of 8 asphalt samples detected concentrations greater than the MDC for Co-60. The positive findings are all less than 1.05E+00 pCi/g, which is less than 44% of the Class 1 assessment criteria for Co-60 (2.44E+00 pCi/g).

Gamma analysis reports for 37 of 41 soil samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 1.18E+01 pCi/g, which is approximately 205% of the Class 1 assessment criteria for Cs-137. Additionally, 34 of 41 soil samples detected concentrations greater than the MDC for Co-60. Cobalt-60 results range from less than MDC to 4.57E+00 pCi/g, which is approximately 190% of the Class 1 assessment criteria for Co-60. Two soil samples (RCA-SOIL-028-B and RCA-SOIL-038-B) detected concentrations greater than the MDC for C-14. The positive findings are all less than 4.10E+00 pCi/g, which is approximately 240% of the Class 1 assessment criteria for C-14 (1.70E+00 pCi/g). One soil sample (RCA-SOIL-032-B) detected concentrations greater than the MDC for Tc-99. The positive finding is 5.66E-01 pCi/g, which is less than 7% of the Class 1 assessment criteria for Tc-99 (9.42E+00 pCi/g). One soil sample (RCA-SOIL-061-B-I) detected concentrations greater than the MDC for Ni-63. The positive finding is 3.71E+01 pCi/g, which is less than 9% of the Class 1 assessment criteria for Ni-63 (4.35E+02 pCi/g).

Gamma analysis reports for 28 of 34 DEP1 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 5.93E+01 pCi/g, which is approximately 105% of the Class 1 assessment criteria for Cs-137. Additionally, 18 of 34 DEP1 samples detected concentrations greater than the MDC for Co-60. Cobalt-60 results range from less than MDC to 3.80E-01 pCi/g, which is less than 16% of the Class 1 assessment criteria for Co-60. One DEP1 sample (RCA-DEP1-061-B-I) detected concentrations greater than the MDC for Ni-63. The positive findings is 2.96E+01 pCi/g, which is less than 7% of the Class 1 assessment criteria for Ni-63 (4.35E+02 pCi/g).

Gamma analysis reports for 28 of 34 DEP2 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 4.71E+01 pCi/g, which is less than 82% of the Class 1 assessment criteria for Cs-137. Additionally, 6 of 34 DEP2 samples detected concentrations greater than the MDC for Co-60. Cobalt-60 results range from less than MDC to 3.54E-01 pCi/g, which is less than

15% of the Class 1 assessment criteria for Co-60. One DEP2 sample (RCA-DEP2-035-B) detected concentrations greater than the MDC for C-14. The positive finding is 4.36E+00 pCi/g, which is approximately 256% of the Class 1 assessment criteria for C-14 (1.70E+00 pCi/g). One DEP2 sample (RCA-DEP2-043-B) detected concentrations greater than the MDC for Sr-90. The positive findings is 4.79E-01 pCi/g, which is less than 46% of the Class 1 assessment criteria for Sr-90 (1.06E+00 pCi/g).

Gamma analysis reports for 24 of 31 DEP3 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 1.68E+02 pCi/g, which is approximately 2,915% of the Class 1 assessment criteria for Cs-137. Additionally, 5 of 31 DEP3 samples detected concentrations greater than the MDC for Co-60. Cobalt-60 results range from less than MDC to 3.54E-01 pCi/g, which is less than 47% of the Class 1 assessment criteria for Co-60. One DEP3 sample (RCA-DEP3-043-B) detected concentrations greater than the MDC for Sr-90. The positive finding is 7.38E-01 pCi/g, which is less than 70% of the Class 1 assessment criteria for Sr-90 (1.06E+00 pCi/g).

Gamma analysis reports for 18 of 26 DEP4 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 4.90E+01 pCi/g, which is approximately 850% of the Class 1 assessment criteria for Cs-137. Additionally, 2 of 26 DEP4 samples detected concentrations greater than the MDC for Co-60. Cobalt-60 results range from less than MDC to 5.75E-01 pCi/g, which is less than 24% of the Class 1 assessment criteria for Co-60. One DEP4 sample (RCA-DEP4-043-B) detected concentrations greater than the MDC for Sr-90. The positive finding is 2.67E+00 pCi/g, which is approximately 250% of the Class 1 assessment criteria for Sr-90 (1.06E+00 pCi/g).

Gamma analysis reports for 16 of 23 DEP5 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 2.66E+01 pCi/g, which is approximately 460% of the Class 1 assessment criteria for Cs-137. Additionally, 3 of 23 DEP5 samples detected concentrations greater than the MDC for Co-60. Cobalt-60 results range from less than MDC to 3.98E+01 pCi/g, which is approximately 1630% of the Class 1 assessment criteria for Co-60. One DEP5 sample (RCA-DEP5-037-B) detected concentrations greater than the MDC for C-14. The positive finding is 4.94E+00 pCi/g, which is approximately 290% of the Class 1 assessment criteria for C-14 (1.70E+00 pCi/g). One DEP5 sample (RCA-DEP5-043-B) detected concentrations greater than the MDC for Sr-90. The positive finding is 3.52E+00 pCi/g, which is approximately 332% of the Class 1 assessment criteria for Sr-90 (1.06E+00 pCi/g).

Gamma analysis reports for 15 of 21 DEP6 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from less than MDC to 1.89E+00 pCi/g, which is approximately 460% of the Class 1 assessment criteria for Cs-137. Additionally, 1 of 23 DEP6 samples (RCA-DPE6-043-B) detected concentrations greater than the MDC for Co-60. The positive finding is 2.44E-01 pCi/g, which is less than 11% of the Class 1 assessment criteria for Co-60. One DEP6 sample (RCA-DEP5-043-B) detected concentrations greater than the MDC for Sr-90. The positive finding is 5.03E+00 pCi/g, which is approximately 475% of the Class 1 assessment criteria for Sr-90 (1.06E+00 pCi/g).

Gamma analysis reports for 9 of 9 DEP7 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from 2.95E-02 to 2.49E+00 pCi/g, which is less than 44% of the Class 1 assessment criteria for Cs-137. No Co-60 was detected at concentrations greater than the MDC for Co-60.

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Gamma analysis reports for 9 of 9 DEP8 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from 1.83E-02 to 3.75E+00 pCi/g, which is less than 66% of the Class 1 assessment criteria for Cs-137. Additionally, 1 of 9 DEP8 samples (RCA-DEP8-049-B-I) detected concentrations greater than the MDC for Co-60. The positive finding is 1.37E-02pCi/g, which is less than 1% of the Class 1 assessment criteria for Co-60.

Gamma analysis reports for 5 of 5 DEP9 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from 1.35E-02 to 1.26E+00 pCi/g, which is less than 58% of the Class 1 assessment criteria for Cs-137. Additionally, 1 of 5 DEP9 samples (RCA-DEP9-049-B-I) detected concentrations greater than the MDC for Co-60. The positive finding is 7.39E-02pCi/g, which is less than 4% of the Class 1 assessment criteria for Co-60.

Gamma analysis reports for 5 of 5 DEP10 samples detected concentrations greater than the MDC for Cs-137. Cesium-137 results range from 1.69E-02 to 3.34E+00 pCi/g, which is less than 22% of the Class 1 assessment criteria for Cs-137. Additionally, 1 of 5 DEP10 samples (RCA-DEP10-049-B-I) detected concentrations greater than the MDC for Co-60. The positive finding is 1.26E-02pCi/g, which is less than 1% of the Class 1 assessment criteria for Co-60.

Table 3-40 RCA Survey Area Resample Analysis Results

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-021-B-QC-I	1.03E-01	1.22E+00	4.88E-02	4.91E-02	1.82E-02	1.23E-02	5.29E-02
RCA-SOIL-022-B-QC-I	1.49E+00	3.36E+00	7.08E-02	5.21E-02	2.60E-02	2.08E-02	7.36E-02
RCA-SOIL-023-B-QC-I	4.58E-01	1.11E+00	5.68E-02	4.55E-02	1.96E-02	1.55E-02	5.51E-02
RCA-SOIL-024-B-QC-I	2.23E-02	3.00E-01	3.98E-02	2.92E-02	1.30E-02	1.40E-02	3.58E-02
RCA-SOIL-025-B-D-QC-I	2.33E-02	3.51E-01	3.51E-02	3.36E-02	1.16E-02	1.05E-02	3.14E-02
RCA-SOIL-026-B-QC-I	4.57E+00	7.89E+00	1.18E-01	7.62E-02	3.95E-02	3.04E-02	1.22E-01
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-021-B-QC-I	1.41E-01	6.62E-02	6.62E-02	3.98E-02	1.55E-01	1.63E-01	1.63E-01
RCA-SOIL-022-B-QC-I	2.85E-01	2.02E-01	2.02E-01	3.27E-02	1.52E-01	1.75E-01	1.75E-01
RCA-SOIL-023-B-QC-I	2.77E-01	1.86E-01	1.86E-01	3.37E-02	9.82E-02	1.35E-01	1.35E-01
RCA-SOIL-024-B-QC-I	2.16E-01	1.10E-01	1.10E-01	3.04E-02	1.16E-01	1.05E-01	1.05E-01
RCA-SOIL-025-B-D-QC-I	2.42E-01	1.65E-01	1.65E-01	2.97E-02	2.27E-01	2.07E-01	2.07E-01
RCA-SOIL-026-B-QC-I	3.64E-01	8.71E-02	8.71E-02	3.64E-02	1.35E-01	1.25E-01	1.25E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-021-B-QC-I	3.14E+00	8.44E+01	1.48E+01	2.67E+01	2.97E-01	1.77E+01	5.50E-01
RCA-SOIL-022-B-QC-I	2.73E+00	8.33E+01	1.46E+01	2.49E+01	3.67E-01	1.89E+01	5.40E-01
RCA-SOIL-023-B-QC-I	2.99E+00	8.56E+01	1.45E+01	2.53E+01	2.19E-01	1.89E+01	5.03E-01
RCA-SOIL-024-B-QC-I	3.01E+00	8.71E+01	1.46E+01	2.42E+01	3.00E-01	1.82E+01	4.32E-01
RCA-SOIL-025-B-D-QC-I	3.10E+00	8.37E+01	1.42E+01	2.48E+01	3.05E-01	2.07E+01	4.52E-01
RCA-SOIL-026-B-QC-I	3.20E+00	8.41E+01	N/A	2.48E+01	3.08E-01	1.84E+01	6.75E-01

Table 3-41 Condensate Storage Tank Sample Results

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-027-B	3.55E-02	2.81E-02	2.54E-02	2.13E-02	8.86E-03	8.62E-03	2.30E-02
RCA-DEP1-027-B	1.74E-02	4.28E-02	4.13E-02	3.55E-02	1.59E-02	1.35E-02	3.72E-02
RCA-DEP2-027-B	1.45E-02	1.56E-02	3.22E-02	4.20E-02	1.20E-02	1.12E-02	2.94E-02
RCA-DEP3-027-B	8.75E-03	9.59E-03	2.17E-02	2.65E-02	9.50E-03	7.63E-03	2.75E-02
RCA-DEP4-027-B	7.16E-03	8.04E-03	2.34E-02	2.44E-02	7.83E-03	7.95E-03	1.94E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-027-B	1.67E-01	6.31E-02	6.31E-02	3.62E-02	1.07E-01	1.07E-01	1.07E-01
RCA-DEP1-027-B	2.06E-01	8.15E-02	8.15E-02	3.51E-02	1.57E-01	1.82E-01	1.82E-01
RCA-DEP2-027-B	2.54E-01	6.59E-02	6.59E-02	3.25E-02	1.56E-01	1.85E-01	1.85E-01
RCA-DEP3-027-B	1.14E-01	6.16E-02	6.16E-02	5.45E-02	1.13E-01	9.74E-02	9.74E-02
RCA-DEP4-027-B	2.35E-01	1.37E-01	1.37E-01	4.12E-02	1.19E-01	1.19E-01	1.19E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-027-B	3.82E+00	1.21E+01	1.57E+01	7.79E+00	2.07E-01	2.18E+01	5.59E-01
RCA-DEP1-027-B	3.60E+00	1.03E+02	1.39E+01	2.08E+01	3.41E-01	2.11E+01	4.74E-01
RCA-DEP2-027-B	3.58E+00	1.04E+02	1.59E+01	1.77E+01	3.44E-01	1.48E+01	4.88E-01
RCA-DEP3-027-B	3.35E+00	9.33E+01	1.44E+01	1.73E+01	2.48E-01	1.18E+01	4.62E-01
RCA-DEP4-027-B	3.49E+00	9.57E+01	1.88E+01	1.77E+01	1.21E-01	1.44E+01	4.72E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-028-B	1.11E-01	1.33E-02	3.46E-02	3.82E-02	1.34E-02	1.16E-02	2.89E-02
RCA-DEP1-028-B	1.33E-02	1.14E-02	3.18E-02	3.51E-02	1.08E-02	1.14E-02	3.19E-02
RCA-DEP2-028-B	1.58E-02	1.45E-02	4.49E-02	3.81E-02	1.34E-02	1.52E-02	3.36E-02
RCA-DEP3-028-B	1.56E-02	1.69E-02	3.54E-02	3.43E-02	1.67E-02	1.43E-02	3.52E-02
RCA-DEP4-028-B	1.80E-02	1.68E-02	4.45E-02	5.39E-02	1.83E-02	1.80E-02	4.19E-02
RCA-DEP5-028-B	1.49E-02	1.51E-02	4.35E-02	4.31E-02	1.19E-02	1.28E-02	3.59E-02
RCA-DEP6-028-B	1.23E-02	1.13E-02	3.59E-02	3.17E-02	1.36E-02	1.23E-02	2.87E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-028-B	2.54E-01	1.06E-01	1.06E-01	3.54E-02	1.60E-01	1.39E-01	1.39E-01
RCA-DEP1-028-B	2.57E-01	2.29E-01	2.29E-01	3.98E-02	2.06E-01	1.91E-01	1.91E-01
RCA-DEP2-028-B	3.12E-01	2.29E-01	2.29E-01	2.27E-02	1.59E-01	8.62E-02	8.62E-02
RCA-DEP3-028-B	2.63E-01	2.25E-01	2.25E-01	5.19E-02	1.53E-01	1.96E-01	1.96E-01
RCA-DEP4-028-B	4.76E-01	3.24E-01	3.24E-01	3.07E-02	1.25E-01	1.05E-01	1.05E-01
RCA-DEP5-028-B	2.88E-01	2.05E-01	2.05E-01	5.86E-02	9.88E-02	1.14E-01	1.14E-01
RCA-DEP6-028-B	2.57E-01	2.09E-01	2.09E-01	4.47E-02	7.47E-02	7.46E-02	7.46E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-028-B	4.04E+00	1.65E+01	1.61E+01	9.02E+00	1.40E-01	2.83E+01	4.38E-01
RCA-DEP1-028-B	4.48E+00	8.46E+01	9.60E+00	2.10E+01	2.25E-01	1.69E+01	4.66E-01
RCA-DEP2-028-B	4.50E+00	8.48E+01	9.99E+00	2.00E+01	2.31E-01	2.28E+01	4.66E-01
RCA-DEP3-028-B	4.28E+00	7.16E+01	9.62E+00	2.07E+01	2.39E-01	1.73E+01	4.66E-01
RCA-DEP4-028-B	4.46E+00	7.22E+01	9.84E+00	2.30E+01	1.46E-01	1.55E+01	4.71E-01
RCA-DEP5-028-B	4.49E+00	8.14E+01	9.54E+00	1.81E+01	1.56E-01	1.75E+01	4.61E-01
RCA-DEP6-028-B	3.63E+00	8.76E+01	1.42E+01	1.61E+01	1.70E-01	1.97E+01	4.34E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-029-B	4.36E-02	5.44E-02	3.84E-02	4.90E-02	1.24E-02	1.20E-02	3.48E-02
RCA-DEP1-029-B	4.64E-02	2.01E-02	2.90E-02	2.37E-02	1.01E-02	1.12E-02	2.65E-02
RCA-DEP2-029-B	9.84E-03	1.34E-02	3.11E-02	3.39E-02	1.28E-02	1.03E-02	2.86E-02
RCA-DEP3-029-B	1.61E-02	1.23E-02	3.75E-02	4.26E-02	1.07E-02	1.09E-02	3.10E-02
RCA-DEP4-029-B	1.52E-02	2.02E-02	3.50E-02	5.30E-02	1.54E-02	1.35E-02	3.84E-02
RCA-DEP5-029-B	1.59E-02	1.84E-02	4.03E-02	5.95E-02	1.56E-02	1.63E-02	3.58E-02
RCA-DEP6-029-B	1.28E-02	1.67E-02	4.25E-02	2.93E-02	1.43E-02	1.36E-02	3.82E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-029-B	1.99E-01	1.15E-01	1.15E-01	4.48E-02	1.18E-01	1.02E-01	1.02E-01
RCA-DEP1-029-B	3.35E-01	2.54E-01	2.54E-01	4.58E-02	1.04E-01	1.20E-01	1.20E-01
RCA-DEP2-029-B	3.45E-01	3.52E-01	3.52E-01	4.60E-02	6.20E-02	6.20E-02	6.20E-02
RCA-DEP3-029-B	2.25E-01	1.17E-01	1.17E-01	4.88E-02	9.71E-02	9.70E-02	9.70E-02
RCA-DEP4-029-B	1.57E-01	6.59E-02	6.59E-02	3.17E-02	1.23E-01	1.79E-01	1.79E-01
RCA-DEP5-029-B	3.28E-01	1.30E-01	1.30E-01	6.19E-02	7.56E-02	1.66E-01	1.66E-01
RCA-DEP6-029-B	3.54E-01	2.06E-01	2.06E-01	3.36E-02	1.09E-01	1.20E-01	1.20E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-029-B	3.69E+00	1.51E+01	1.54E+01	8.28E+00	2.02E-01	2.53E+01	4.78E-01
RCA-DEP1-029-B	3.60E+00	9.10E+01	1.62E+01	2.16E+01	2.86E-01	1.78E+01	4.47E-01
RCA-DEP2-029-B	3.64E+00	7.11E+01	1.46E+01	1.95E+01	2.13E-01	1.72E+01	4.46E-01
RCA-DEP3-029-B	3.61E+00	8.61E+01	1.38E+01	1.82E+01	1.82E-01	1.67E+01	4.44E-01
RCA-DEP4-029-B	3.64E+00	7.27E+01	1.52E+01	1.79E+01	2.60E-01	2.03E+01	4.52E-01
RCA-DEP5-029-B	3.64E+00	7.94E+01	1.34E+01	1.84E+01	1.76E-01	2.02E+01	4.81E-01
RCA-DEP6-029-B	3.61E+00	7.65E+01	1.40E+01	2.10E+01	2.69E-01	1.71E+01	4.56E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-030-B	1.81E-02	1.29E-02	3.59E-02	5.03E-02	1.59E-02	1.19E-02	3.39E-02
RCA-DEP1-030-B	1.27E-02	1.43E-02	3.86E-02	3.31E-02	1.45E-02	1.10E-02	3.29E-02
RCA-DEP2-030-B	9.82E-03	1.29E-02	3.30E-02	2.77E-02	1.21E-02	1.16E-02	2.68E-02
RCA-DEP3-030-B	1.50E-02	1.51E-02	3.88E-02	3.83E-02	1.08E-02	1.25E-02	3.24E-02
RCA-DEP4-030-B	1.31E-02	1.46E-02	2.86E-02	4.48E-02	1.27E-02	1.45E-02	3.31E-02
RCA-DEP5-030-B	1.81E-02	1.50E-02	3.56E-02	4.88E-02	1.35E-02	1.05E-02	3.96E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-030-B	1.96E-01	6.42E-02	6.42E-02	2.36E-02	1.12E-01	1.12E-01	1.12E-01
RCA-DEP1-030-B	1.69E-01	1.09E-01	1.09E-01	6.02E-02	2.97E-01	2.97E-01	2.97E-01
RCA-DEP2-030-B	1.92E-01	8.11E-02	8.11E-02	3.04E-02	1.57E-01	1.87E-01	1.87E-01
RCA-DEP3-030-B	2.91E-01	1.47E-01	1.47E-01	2.46E-02	1.09E-01	1.60E-01	1.60E-01
RCA-DEP4-030-B	9.85E-02	1.08E-01	1.08E-01	3.23E-02	1.15E-01	1.60E-01	1.60E-01
RCA-DEP5-030-B	2.25E-01	5.89E-02	5.89E-02	6.06E-02	1.42E-01	1.53E-01	1.53E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-030-B	3.52E+00	1.55E+01	1.54E+01	9.52E+00	1.22E-01	2.30E+01	4.38E-01
RCA-DEP1-030-B	3.58E+00	7.25E+01	1.48E+01	2.11E+01	2.64E-01	4.95E+01	4.67E-01
RCA-DEP2-030-B	3.60E+00	7.74E+01	1.45E+01	2.76E+01	2.64E-01	2.33E+01	4.63E-01
RCA-DEP3-030-B	3.61E+00	9.74E+01	1.44E+01	2.74E+01	5.05E-01	1.27E+01	4.65E-01
RCA-DEP4-030-B	3.64E+00	1.02E+02	1.44E+01	2.14E+01	2.60E-01	1.13E+01	4.48E-01
RCA-DEP5-030-B	3.61E+00	8.55E+01	1.37E+01	1.92E+01	4.35E-01	1.26E+01	4.56E-01

Table 3-42 RCA Loading Dock Area Sample Results

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-035-B	3.65E-01	2.22E+00	6.52E-02	4.61E-02	1.82E-02	1.46E-02	6.37E-02
RCA-SOIL-035-B	1.97E-01	2.98E+00	7.01E-02	5.49E-02	2.00E-02	1.43E-02	7.74E-02
RCA-DEP1-035-B	1.93E-02	6.78E-01	3.78E-02	4.88E-02	1.18E-02	1.40E-02	4.12E-02
RCA-DEP2-035-B	1.67E-02	1.92E-01	4.46E-02	4.92E-02	1.55E-02	1.37E-02	4.11E-02
RCA-DEP3-035-B	1.21E-02	1.33E-01	3.17E-02	3.17E-02	1.35E-02	1.18E-02	3.08E-02
RCA-DEP4-035-B	9.97E-03	1.11E-01	2.88E-02	2.97E-02	8.87E-03	8.95E-03	2.98E-02
RCA-DEP5-035-B	1.47E-02	7.64E-02	4.01E-02	4.26E-02	1.41E-02	1.02E-02	3.06E-02
RCA-DEP6-035-B	1.61E-02	3.33E-02	3.34E-02	3.39E-02	1.40E-02	1.07E-02	3.20E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-035-B	4.09E-01	1.99E-01	1.99E-01	3.99E-02	1.22E-01	1.71E-01	1.71E-01
RCA-SOIL-035-B	3.78E-01	2.42E-01	2.42E-01	2.78E-02	8.15E-02	1.30E-01	1.30E-01
RCA-DEP1-035-B	2.40E-01	2.87E-01	2.87E-01	3.87E-02	1.11E-01	1.28E-01	1.28E-01
RCA-DEP2-035-B	2.65E-01	1.57E-01	1.57E-01	4.49E-02	2.03E-01	1.90E-01	1.90E-01
RCA-DEP3-035-B	2.38E-01	9.91E-02	9.91E-02	3.38E-02	1.45E-01	1.05E-01	1.05E-01
RCA-DEP4-035-B	1.97E-01	7.76E-02	7.76E-02	5.07E-02	1.05E-01	1.53E-01	1.53E-01
RCA-DEP5-035-B	2.51E-01	1.29E-01	1.29E-01	3.48E-02	6.07E-02	9.70E-02	9.70E-02
RCA-DEP6-035-B	2.89E-01	1.04E-01	1.04E-01	2.71E-02	6.58E-02	6.58E-02	6.58E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-035-B	3.46E+00	9.07E+01	1.10E+01	1.97E+01	1.90E-01	3.88E+01	4.11E-01
RCA-SOIL-035-B	4.22E+00	1.94E+02	1.64E+01	1.72E+01	2.14E-01	2.76E+01	4.58E-01
RCA-DEP1-035-B	3.60E+00	1.89E+02	1.35E+01	1.98E+01	2.52E-01	2.30E+01	4.06E-01
RCA-DEP2-035-B	4.36E+00	1.27E+02	2.69E+01	3.01E+01	1.69E-01	5.02E+01	4.53E-01
RCA-DEP3-035-B	3.39E+00	1.33E+02	2.62E+01	2.62E+01	2.36E-01	1.58E+01	4.46E-01
RCA-DEP4-035-B	3.09E+00	1.27E+02	2.63E+01	2.92E+01	1.48E-01	4.62E+01	4.57E-01
RCA-DEP5-035-B	3.44E+00	1.42E+02	2.59E+01	2.98E+01	1.83E-01	5.09E+01	4.81E-01
RCA-DEP6-035-B	3.39E+00	1.32E+02	2.60E+01	3.06E+01	2.51E-01	1.70E+01	4.67E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-036-B	1.47E-01	4.61E-01	4.22E-02	4.32E-02	1.60E-02	1.20E-02	4.10E-02
RCA-SOIL-036-B	8.25E-02	1.90E-01	4.46E-02	4.29E-02	1.59E-02	1.64E-02	3.84E-02
RCA-DEP1-036-B	1.63E-02	4.45E-02	3.38E-02	3.37E-02	1.54E-02	1.19E-02	3.06E-02
RCA-DEP2-036-B	1.01E-02	3.46E-02	3.15E-02	4.84E-02	1.33E-02	1.12E-02	2.98E-02
RCA-DEP3-036-B	2.09E-02	1.70E-01	4.46E-02	4.05E-02	1.71E-02	1.66E-02	4.02E-02
RCA-DEP4-036-B	1.47E-02	7.03E-02	3.64E-02	5.24E-02	8.75E-03	1.62E-02	3.84E-02
RCA-DEP5-036-B	1.85E-02	4.62E-02	4.70E-02	5.31E-02	1.45E-02	1.55E-02	4.29E-02
RCA-DEP6-036-B	1.42E-02	3.36E-02	4.36E-02	4.55E-02	1.73E-02	1.58E-02	4.08E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-036-B	4.53E-01	2.61E-01	2.61E-01	2.30E-02	2.32E-01	1.66E-01	1.66E-01
RCA-SOIL-036-B	3.09E-01	1.12E-01	1.12E-01	4.82E-02	2.19E-01	2.60E-01	2.60E-01
RCA-DEP1-036-B	2.57E-01	1.65E-01	1.65E-01	3.20E-02	2.31E-01	2.71E-01	2.71E-01
RCA-DEP2-036-B	4.01E-01	1.93E-01	1.93E-01	3.17E-02	2.96E-01	2.96E-01	2.96E-01
RCA-DEP3-036-B	4.44E-01	3.27E-01	3.27E-01	2.85E-02	1.46E-01	2.14E-01	2.14E-01
RCA-DEP4-036-B	2.17E-01	1.58E-01	1.58E-01	3.92E-02	2.71E-01	3.04E-01	3.04E-01
RCA-DEP5-036-B	3.02E-01	1.03E-01	1.03E-01	4.36E-02	1.86E-01	1.61E-01	1.61E-01
RCA-DEP6-036-B	3.37E-01	1.82E-01	1.82E-01	3.14E-02	1.88E-01	2.00E-01	2.00E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-036-B	3.54E+00	1.14E+02	1.03E+01	2.13E+01	3.04E-01	5.69E+01	3.79E-01
RCA-SOIL-036-B	3.37E+00	1.26E+02	2.64E+01	2.94E+01	2.83E-01	1.87E+01	5.00E-01
RCA-DEP1-036-B	3.48E+00	1.22E+02	2.67E+01	3.12E+01	4.20E-01	5.20E+01	4.91E-01
RCA-DEP2-036-B	3.43E+00	1.24E+02	2.45E+01	3.11E+01	2.92E-01	1.70E+01	4.69E-01
RCA-DEP3-036-B	3.07E+00	1.23E+02	2.68E+01	2.84E+01	1.48E-01	5.34E+01	4.55E-01
RCA-DEP4-036-B	3.48E+00	1.24E+02	2.60E+01	3.01E+01	1.33E-01	1.58E+01	4.46E-01
RCA-DEP5-036-B	3.19E+00	1.24E+02	2.67E+01	3.10E+01	1.66E-01	1.68E+01	4.67E-01
RCA-DEP6-036-B	3.43E+00	1.30E+02	2.61E+01	3.06E+01	4.80E-01	4.63E+01	4.67E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-037-B	1.05E+00	1.74E+00	5.13E-02	4.55E-02	1.91E-02	1.54E-02	5.17E-02
RCA-SOIL-037-B	7.90E-02	3.10E-01	3.54E-02	3.26E-02	1.52E-02	1.28E-02	3.66E-02
RCA-DEP1-037-B	1.43E-02	5.99E-02	3.06E-02	1.97E-02	1.07E-02	9.20E-03	2.49E-02
RCA-DEP2-037-B	1.38E-02	2.22E-02	3.92E-02	4.30E-02	1.58E-02	1.26E-02	3.73E-02
RCA-DEP3-037-B	1.67E-02	1.88E-02	3.56E-02	4.36E-02	1.22E-02	1.30E-02	3.38E-02
RCA-DEP4-037-B	9.62E-03	1.15E-02	2.94E-02	3.01E-02	9.42E-03	9.87E-03	3.08E-02
RCA-DEP5-037-B	1.43E-02	1.19E-02	2.84E-02	3.26E-02	1.23E-02	1.10E-02	3.51E-02
RCA-DEP6-037-B	1.24E-02	1.85E-02	3.54E-02	4.46E-02	1.44E-02	1.46E-02	3.47E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-037-B	2.39E-01	2.37E-01	2.37E-01	3.13E-02	2.44E-01	2.43E-01	2.43E-01
RCA-SOIL-037-B	4.42E-01	3.29E-01	3.29E-01	2.41E-02	2.36E-01	2.76E-01	2.76E-01
RCA-DEP1-037-B	3.78E-01	3.68E-01	3.68E-01	3.90E-02	2.59E-01	2.59E-01	2.59E-01
RCA-DEP2-037-B	3.21E-01	1.40E-01	1.40E-01	2.83E-02	2.42E-01	2.71E-01	2.71E-01
RCA-DEP3-037-B	2.40E-01	1.36E-01	1.36E-01	4.04E-02	7.21E-02	1.15E-01	1.15E-01
RCA-DEP4-037-B	1.54E-01	1.11E-01	1.11E-01	3.68E-02	1.18E-01	1.18E-01	1.18E-01
RCA-DEP5-037-B	2.49E-01	6.82E-02	6.82E-02	4.23E-02	1.11E-01	9.57E-02	9.57E-02
RCA-DEP6-037-B	2.37E-01	1.07E-01	1.07E-01	2.80E-02	6.18E-02	9.88E-02	9.88E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-037-B	3.61E+00	1.01E+02	1.13E+01	1.97E+01	2.57E-01	8.15E+01	3.92E-01
RCA-SOIL-037-B	3.75E+00	1.55E+01	1.60E+01	8.27E+00	2.39E-01	2.32E+01	4.77E-01
RCA-DEP1-037-B	3.87E+00	1.47E+01	1.59E+01	8.72E+00	2.38E-01	2.26E+01	4.34E-01
RCA-DEP2-037-B	3.53E+00	1.50E+01	1.85E+01	8.56E+00	1.62E-01	2.16E+01	4.23E-01
RCA-DEP3-037-B	3.42E+00	1.39E+01	1.80E+01	8.18E+00	1.86E-01	2.82E+01	4.39E-01
RCA-DEP4-037-B	3.44E+00	1.43E+01	1.57E+01	8.25E+00	1.50E-01	2.41E+01	4.18E-01
RCA-DEP5-037-B	4.94E+00	1.54E+01	1.62E+01	8.86E+00	1.94E-01	2.38E+01	4.26E-01
RCA-DEP6-037-B	3.52E+00	1.49E+01	1.74E+01	8.80E+00	2.67E-01	2.30E+01	4.48E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-038-B	6.60E-02	8.47E-01	4.03E-02	4.76E-02	9.87E-03	1.06E-02	4.03E-02
RCA-SOIL-038-B	1.09E-02	3.21E-02	3.76E-02	4.21E-02	1.24E-02	1.34E-02	4.04E-02
RCA-DEP1-038-B	1.13E-02	1.03E-02	2.48E-02	2.72E-02	6.90E-03	1.07E-02	2.71E-02
RCA-DEP2-038-B	1.12E-02	1.29E-02	3.19E-02	2.66E-02	1.43E-02	9.85E-03	3.16E-02
RCA-DEP3-038-B	9.38E-03	1.34E-02	3.43E-02	4.15E-02	1.08E-02	9.98E-03	3.02E-02
RCA-DEP4-038-B	1.64E-02	1.52E-02	3.79E-02	4.70E-02	1.62E-02	1.53E-02	3.70E-02
RCA-DEP5-038-B	1.25E-02	1.10E-02	3.33E-02	4.78E-02	1.01E-02	1.31E-02	3.33E-02
RCA-DEP6-038-B	1.63E-02	1.49E-02	3.82E-02	5.20E-02	1.48E-02	1.53E-02	3.47E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-038-B	4.04E-01	3.18E-01	3.18E-01	2.61E-02	2.02E-01	2.01E-01	2.01E-01
RCA-SOIL-038-B	2.67E-01	1.82E-01	1.82E-01	2.66E-02	2.77E-01	2.61E-01	2.61E-01
RCA-DEP1-038-B	2.74E-01	1.95E-01	1.95E-01	3.14E-02	7.16E-02	7.16E-02	7.16E-02
RCA-DEP2-038-B	2.75E-01	1.82E-01	1.82E-01	3.46E-02	7.41E-02	7.40E-02	7.40E-02
RCA-DEP3-038-B	3.36E-01	1.87E-01	1.87E-01	3.03E-02	6.62E-02	1.06E-01	1.06E-01
RCA-DEP4-038-B	3.28E-01	2.10E-01	2.10E-01	3.18E-02	1.11E-01	6.92E-02	6.92E-02
RCA-DEP5-038-B	2.72E-01	1.68E-01	1.68E-01	3.39E-02	1.21E-01	5.96E-02	5.96E-02
RCA-DEP6-038-B	1.60E-01	7.93E-02	7.93E-02	3.19E-02	3.12E-01	2.27E-01	2.27E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-038-B	3.56E+00	9.33E+01	8.31E+00	2.21E+01	3.61E-01	4.72E+01	4.03E-01
RCA-SOIL-038-B	4.10E+00	1.22E+02	2.67E+01	2.85E+01	1.37E-01	2.32E+01	6.48E-01
RCA-DEP1-038-B	3.48E+00	1.39E+02	2.64E+01	3.11E+01	2.41E-01	1.72E+01	4.81E-01
RCA-DEP2-038-B	3.44E+00	1.39E+02	2.57E+01	2.88E+01	1.71E-01	1.79E+01	4.68E-01
RCA-DEP3-038-B	3.25E+00	1.24E+02	2.63E+01	3.16E+01	2.03E-01	1.93E+01	4.64E-01
RCA-DEP4-038-B	3.97E+00	1.40E+02	1.33E+01	3.03E+01	5.11E-01	1.65E+01	4.05E-01
RCA-DEP5-038-B	3.51E+00	1.24E+02	1.30E+01	3.31E+01	2.77E-01	1.54E+01	4.04E-01
RCA-DEP6-038-B	3.86E+00	1.30E+02	1.11E+01	2.56E+01	2.17E-01	1.84E+01	4.21E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-039-B	4.39E-02	6.24E-02	2.67E-02	2.56E-02	9.84E-03	8.29E-03	2.40E-02
RCA-SOIL-039-B	1.67E-02	1.23E-02	3.43E-02	3.71E-02	1.18E-02	1.25E-02	3.08E-02
RCA-DEP1-039-B	1.08E-02	1.18E-02	2.61E-02	2.86E-02	1.11E-02	1.13E-02	2.52E-02
RCA-DEP2-039-B	9.03E-03	1.02E-02	2.50E-02	2.30E-02	9.06E-03	9.10E-03	2.53E-02
RCA-DEP3-039-B	8.52E-03	1.49E-02	2.66E-02	2.37E-02	8.54E-03	8.10E-03	2.43E-02
RCA-DEP4-039-B	1.98E-02	1.71E-02	3.98E-02	3.60E-02	1.48E-02	1.28E-02	3.79E-02
RCA-DEP5-039-B	1.32E-02	1.94E-02	4.57E-02	4.75E-02	1.64E-02	1.52E-02	3.79E-02
RCA-DEP6-039-B	1.92E-02	4.68E-02	4.08E-02	3.69E-02	1.53E-02	1.41E-02	4.04E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-039-B	3.92E-01	3.10E-01	3.10E-01	3.55E-02	3.37E-01	3.95E-01	3.95E-01
RCA-SOIL-039-B	3.28E-01	1.13E-01	1.13E-01	5.05E-02	1.88E-01	1.62E-01	1.62E-01
RCA-DEP1-039-B	2.70E-01	1.47E-01	1.47E-01	5.68E-02	2.24E-01	2.39E-01	2.39E-01
RCA-DEP2-039-B	2.03E-01	8.12E-02	8.12E-02	4.92E-02	3.22E-01	3.03E-01	3.03E-01
RCA-DEP3-039-B	2.34E-01	9.64E-02	9.64E-02	6.45E-02	2.47E-01	2.32E-01	2.32E-01
RCA-DEP4-039-B	3.12E-01	1.76E-01	1.76E-01	5.97E-02	1.48E-01	1.08E-01	1.08E-01
RCA-DEP5-039-B	2.84E-01	1.51E-01	1.51E-01	5.08E-02	1.29E-01	1.88E-01	1.88E-01
RCA-DEP6-039-B	3.38E-01	9.21E-02	9.21E-02	4.89E-02	8.64E-02	1.38E-01	1.38E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-039-B	3.55E+00	1.93E+02	1.12E+01	2.21E+01	3.02E-01	4.53E+01	4.57E-01
RCA-SOIL-039-B	4.35E+00	1.51E+01	2.28E+01	9.49E+00	2.23E-01	2.48E+01	4.92E-01
RCA-DEP1-039-B	4.22E+00	1.55E+01	2.27E+01	8.88E+00	1.55E-01	2.36E+01	4.19E-01
RCA-DEP2-039-B	4.35E+00	1.57E+01	2.29E+01	8.49E+00	1.43E-01	3.31E+01	4.18E-01
RCA-DEP3-039-B	4.37E+00	1.52E+01	2.29E+01	9.63E+00	2.05E-01	2.46E+01	4.25E-01
RCA-DEP4-039-B	4.27E+00	1.59E+01	2.28E+01	8.55E+00	1.99E-01	2.41E+01	4.20E-01
RCA-DEP5-039-B	4.37E+00	1.59E+01	2.21E+01	8.73E+00	2.07E-01	2.37E+01	4.38E-01
RCA-DEP6-039-B	4.36E+00	1.62E+01	2.26E+01	9.10E+00	2.02E-01	3.07E+01	4.30E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-040-B	2.39E-02	2.51E-02	3.99E-02	6.03E-02	1.44E-02	1.52E-02	3.13E-02
RCA-SOIL-040-B	1.87E-02	3.07E-02	3.49E-02	4.24E-02	1.49E-02	1.31E-02	3.67E-02
RCA-DEP1-040-B	1.02E-02	5.93E-02	3.87E-02	5.07E-02	1.09E-02	1.26E-02	3.07E-02
RCA-DEP2-040-B	1.08E-02	6.57E-02	3.28E-02	3.12E-02	1.04E-02	1.07E-02	2.99E-02
RCA-DEP3-040-B	1.14E-02	1.48E-01	3.63E-02	3.57E-02	1.20E-02	1.20E-02	3.75E-02
RCA-DEP4-040-B	1.55E-02	7.14E-02	3.65E-02	3.48E-02	1.20E-02	1.38E-02	3.85E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-040-B	3.62E-01	1.50E-01	1.50E-01	2.50E-02	3.62E-01	4.71E-01	4.71E-01
RCA-SOIL-040-B	2.23E-01	6.08E-02	6.08E-02	3.47E-02	1.71E-01	2.16E-01	2.16E-01
RCA-DEP1-040-B	2.15E-01	1.29E-01	1.29E-01	2.96E-02	6.69E-02	1.24E-01	1.24E-01
RCA-DEP2-040-B	1.52E-01	1.05E-01	1.05E-01	4.42E-02	1.46E-01	1.67E-01	1.67E-01
RCA-DEP3-040-B	2.71E-01	6.99E-02	6.99E-02	2.86E-02	1.21E-01	1.44E-01	1.44E-01
RCA-DEP4-040-B	2.51E-01	1.34E-01	1.34E-01	4.34E-02	1.53E-01	1.20E-01	1.20E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-040-B	3.33E+00	1.78E+02	1.02E+01	2.34E+01	5.22E-01	4.71E+01	4.68E-01
RCA-SOIL-040-B	3.67E+00	1.63E+01	1.57E+01	1.01E+01	2.17E-01	2.90E+01	5.09E-01
RCA-DEP1-040-B	4.00E+00	1.60E+01	1.58E+01	9.20E+00	2.14E-01	2.21E+01	4.31E-01
RCA-DEP2-040-B	3.97E+00	1.52E+01	1.61E+01	8.85E+00	2.51E-01	2.11E+01	4.31E-01
RCA-DEP3-040-B	3.92E+00	1.51E+01	1.91E+01	8.92E+00	1.83E-01	2.21E+01	4.28E-01
RCA-DEP4-040-B	3.50E+00	1.42E+01	1.60E+01	8.73E+00	1.44E-01	2.45E+01	4.27E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-041-B	1.70E-02	5.27E-02	3.05E-02	4.50E-02	1.13E-02	1.22E-02	2.74E-02
RCA-SOIL-041-B	1.96E-02	2.40E-01	5.60E-02	6.49E-02	1.86E-02	1.71E-02	4.90E-02
RCA-DEP1-041-B	1.60E-02	1.81E-01	3.78E-02	3.56E-02	1.14E-02	1.07E-02	3.02E-02
RCA-DEP2-041-B	8.19E-03	1.41E-02	2.35E-02	1.90E-02	1.00E-02	8.51E-03	2.42E-02
RCA-DEP3-041-B	7.77E-03	8.47E-03	2.74E-02	3.01E-02	9.92E-03	8.98E-03	1.95E-02
RCA-DEP4-041-B	1.31E-02	1.27E-02	2.95E-02	3.30E-02	1.06E-02	8.77E-03	2.86E-02
RCA-DEP5-041-B	1.27E-02	1.17E-02	3.12E-02	3.49E-02	1.13E-02	1.30E-02	2.81E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-041-B	3.92E-01	2.32E-01	2.32E-01	3.72E-02	4.73E-01	5.61E-01	5.61E-01
RCA-SOIL-041-B	4.32E-01	1.85E-01	1.85E-01	3.95E-02	1.69E-01	1.95E-01	1.95E-01
RCA-DEP1-041-B	2.74E-01	2.74E-01	2.74E-01	5.75E-02	2.08E-01	2.48E-01	2.48E-01
RCA-DEP2-041-B	2.00E-01	9.36E-02	9.36E-02	4.63E-02	3.07E-01	3.60E-01	3.60E-01
RCA-DEP3-041-B	2.16E-01	8.76E-02	8.76E-02	5.22E-02	3.16E-01	3.15E-01	3.15E-01
RCA-DEP4-041-B	2.77E-01	1.52E-01	1.52E-01	5.23E-02	1.41E-01	2.06E-01	2.06E-01
RCA-DEP5-041-B	2.22E-01	1.01E-01	1.01E-01	6.18E-02	2.80E-01	3.13E-01	3.13E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-041-B	3.61E+00	2.03E+02	1.07E+01	2.23E+01	5.04E-01	5.54E+01	4.76E-01
RCA-SOIL-041-B	4.36E+00	2.30E+01	2.21E+01	8.60E+00	5.19E-01	2.54E+01	4.48E-01
RCA-DEP1-041-B	4.25E+00	1.55E+01	2.22E+01	8.36E+00	1.65E-01	2.58E+01	4.09E-01
RCA-DEP2-041-B	4.34E+00	1.48E+01	2.24E+01	8.72E+00	2.29E-01	2.87E+01	3.98E-01
RCA-DEP3-041-B	4.33E+00	1.55E+01	2.22E+01	9.43E+00	2.43E-01	2.56E+01	4.13E-01
RCA-DEP4-041-B	4.41E+00	1.63E+01	2.27E+01	8.54E+00	2.45E-01	2.09E+01	4.03E-01
RCA-DEP5-041-B	4.34E+00	1.50E+01	2.27E+01	8.70E+00	1.68E-01	2.39E+01	4.01E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-ASPH-042-B	2.18E-02	1.91E-02	3.27E-02	5.53E-02	1.78E-02	1.38E-02	3.41E-02
RCA-SOIL-042-B	1.34E-02	1.89E-02	4.11E-02	4.57E-02	1.68E-02	1.56E-02	3.97E-02
RCA-DEP1-042-B	1.10E-02	1.48E-02	3.71E-02	3.51E-02	1.23E-02	1.25E-02	3.31E-02
RCA-DEP2-042-B	1.10E-02	1.39E-02	3.64E-02	3.33E-02	1.33E-03	1.19E-02	3.01E-02
RCA-DEP3-042-B	1.68E-02	1.21E-02	3.34E-02	4.84E-02	1.50E-02	1.18E-02	3.90E-02
RCA-DEP4-042-B	1.23E-02	1.81E-02	4.21E-02	4.09E-02	1.45E-02	1.09E-02	3.71E-02
RCA-DEP5-042-B	1.04E-02	1.56E-02	3.11E-02	3.52E-02	1.21E-02	1.10E-02	2.85E-02
RCA-DEP6-042-B	1.32E-02	9.54E-02	4.48E-02	4.48E-02	1.37E-02	1.66E-02	4.09E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-ASPH-042-B	2.21E-01	2.62E-01	2.62E-01	3.81E-02	5.96E-01	6.20E-01	6.20E-01
RCA-SOIL-042-B	2.66E-01	9.16E-02	9.16E-02	6.42E-02	6.94E-02	6.94E-02	6.94E-02
RCA-DEP1-042-B	1.98E-01	1.46E-01	1.46E-01	5.67E-02	1.69E-01	1.69E-01	1.69E-01
RCA-DEP2-042-B	2.62E-01	9.63E-02	9.63E-02	6.17E-02	7.06E-02	7.06E-02	7.06E-02
RCA-DEP3-042-B	3.13E-01	1.80E-01	1.80E-01	3.25E-02	6.76E-02	1.08E-01	1.08E-01
RCA-DEP4-042-B	3.47E-01	1.71E-01	1.71E-01	4.09E-02	1.17E-01	7.33E-02	7.33E-02
RCA-DEP5-042-B	2.23E-01	1.61E-01	1.61E-01	4.49E-02	9.35E-02	1.49E-01	1.49E-01
RCA-DEP6-042-B	3.37E-01	2.11E-01	2.11E-01	4.64E-02	1.23E-01	1.23E-01	1.23E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-ASPH-042-B	3.44E+00	1.89E+02	1.11E+01	1.78E+01	2.91E-01	6.24E+01	4.75E-01
RCA-SOIL-042-B	4.35E+00	1.53E+01	2.23E+01	1.01E+01	2.15E-01	2.57E+01	4.55E-01
RCA-DEP1-042-B	4.40E+00	1.53E+01	2.26E+01	9.07E+00	1.75E-01	3.14E+01	4.14E-01
RCA-DEP2-042-B	4.39E+00	1.52E+01	2.31E+01	9.28E+00	1.90E-01	2.47E+01	4.03E-01
RCA-DEP3-042-B	4.38E+00	1.53E+01	2.31E+01	9.13E+00	2.31E-01	2.35E+01	3.98E-01
RCA-DEP4-042-B	4.35E+00	1.52E+01	2.28E+01	9.46E+00	2.05E-01	2.57E+01	4.12E-01
RCA-DEP5-042-B	4.34E+00	1.55E+01	2.27E+01	9.36E+00	1.27E-01	3.47E+01	4.22E-01
RCA-DEP6-042-B	4.41E+00	1.59E+01	2.27E+01	9.58E+00	1.75E-01	2.34E+01	4.38E-01

Table 3-43 RCA Radioactive Waste Storage Tank Area Sample Results

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-031-B	5.99E-02	5.19E-01	3.72E-02	3.11E-02	9.66E-03	9.71E-03	3.69E-02
RCA-DEP1-031-B	1.49E-02	2.27E-01	3.30E-02	3.55E-02	1.18E-02	1.16E-02	3.58E-02
RCA-DEP2-031-B	1.37E-02	1.22E-02	3.19E-02	3.86E-02	1.22E-02	9.82E-03	3.07E-02
RCA-DEP3-031-B	1.09E-02	1.29E-02	3.02E-02	2.87E-02	1.06E-02	1.15E-02	2.90E-02
RCA-DEP4-031-B	9.35E-03	1.75E-02	2.67E-02	2.60E-02	8.40E-03	8.41E-03	2.16E-02
RCA-DEP5-031-B	8.40E-03	2.50E-02	2.22E-02	2.71E-02	9.87E-03	7.80E-03	2.18E-02
RCA-DEP6-031-B	1.43E-02	1.21E-02	2.64E-02	3.11E-02	1.30E-02	1.17E-02	2.86E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-031-B	3.08E-01	2.50E-01	2.50E-01	3.45E-02	1.49E-01	1.77E-01	1.77E-01
RCA-DEP1-031-B	1.84E-01	1.55E-01	1.55E-01	5.49E-02	1.97E-01	1.71E-01	1.71E-01
RCA-DEP2-031-B	2.60E-01	1.77E-01	1.77E-01	4.19E-02	2.69E-01	2.69E-01	2.69E-01
RCA-DEP3-031-B	1.70E-01	8.10E-02	8.10E-02	5.77E-02	1.82E-01	1.71E-01	1.71E-01
RCA-DEP4-031-B	1.95E-01	8.86E-02	8.86E-02	4.29E-02	1.58E-01	2.00E-01	2.00E-01
RCA-DEP5-031-B	1.53E-01	1.36E-01	1.36E-01	5.22E-02	1.22E-01	7.62E-02	7.62E-02
RCA-DEP6-031-B	2.37E-01	1.64E-01	1.64E-01	4.24E-02	7.96E-02	1.47E-01	1.47E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-031-B	4.13E+00	1.75E+02	1.59E+01	1.73E+01	1.80E-01	2.42E+01	4.15E-01
RCA-DEP1-031-B	3.99E+00	1.91E+02	1.59E+01	1.93E+01	2.26E-01	3.49E+01	4.05E-01
RCA-DEP2-031-B	3.78E+00	1.24E+02	1.32E+01	2.98E+01	1.78E-01	1.89E+01	4.13E-01
RCA-DEP3-031-B	3.72E+00	2.07E+02	1.30E+01	2.59E+01	2.21E-01	2.19E+01	4.22E-01
RCA-DEP4-031-B	3.85E+00	2.07E+02	1.32E+01	2.51E+01	2.39E-01	2.21E+01	4.42E-01
RCA-DEP5-031-B	3.99E+00	2.24E+02	1.54E+01	2.62E+01	2.05E-01	1.99E+01	4.46E-01
RCA-DEP6-031-B	3.85E+00	2.21E+02	1.33E+01	2.56E+01	2.09E-01	2.07E+01	4.37E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-032-B	5.14E-02	7.65E-01	4.35E-02	4.40E-02	1.48E-02	1.14E-02	4.65E-02
RCA-DEP1-032-B	1.85E-02	1.29E-01	3.86E-02	5.45E-02	1.36E-02	1.34E-02	4.07E-02
RCA-DEP2-032-B	1.26E-02	1.88E-02	2.95E-02	3.02E-02	1.36E-02	1.23E-02	2.76E-02
RCA-DEP3-032-B	1.65E-02	5.90E-02	3.45E-02	3.82E-02	1.27E-02	1.37E-02	3.55E-02
RCA-DEP4-032-B	9.64E-03	2.04E-02	2.81E-02	2.48E-02	1.14E-02	1.06E-02	2.34E-02
RCA-DEP5-032-B	1.27E-02	4.65E-02	2.93E-02	3.94E-02	1.39E-02	1.15E-02	3.14E-02
RCA-DEP6-032-B	1.25E-02	3.73E-02	3.00E-02	2.06E-02	9.23E-03	8.68E-03	2.30E-02
RCA-SOIL-033-B	4.90E-02	4.45E+00	6.49E-02	4.33E-02	1.15E-02	9.96E-03	7.11E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-032-B	2.69E-01	1.42E-01	1.42E-01	3.31E-02	1.27E-01	1.27E-01	1.27E-01
RCA-DEP1-032-B	3.47E-01	1.76E-01	1.76E-01	4.10E-02	1.61E-01	2.49E-01	2.49E-01
RCA-DEP2-032-B	2.16E-01	7.38E-02	7.38E-02	3.72E-02	1.12E-01	1.29E-01	1.29E-01
RCA-DEP3-032-B	2.96E-01	1.91E-01	1.91E-01	5.02E-02	1.43E-01	1.43E-01	1.43E-01
RCA-DEP4-032-B	2.61E-01	1.62E-01	1.62E-01	3.18E-02	7.55E-02	1.39E-01	1.39E-01
RCA-DEP5-032-B	2.38E-01	1.47E-01	1.47E-01	4.87E-02	1.96E-01	1.64E-01	1.64E-01
RCA-DEP6-032-B	2.55E-01	1.71E-01	1.71E-01	5.52E-02	3.12E-01	3.12E-01	3.12E-01
RCA-SOIL-033-B	2.85E-01	1.50E-01	1.50E-01	3.31E-02	1.27E-01	1.10E-01	1.10E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-032-B	3.92E+00	1.74E+02	1.61E+01	1.95E+01	2.55E-01	2.66E+01	5.66E-01
RCA-DEP1-032-B	3.83E+00	1.87E+02	1.34E+01	2.36E+01	1.86E-01	2.09E+01	4.45E-01
RCA-DEP2-032-B	3.64E+00	2.16E+02	1.33E+01	2.51E+01	2.40E-01	1.97E+01	4.51E-01
RCA-DEP3-032-B	3.78E+00	2.00E+02	1.32E+01	2.46E+01	1.93E-01	2.53E+01	4.45E-01
RCA-DEP4-032-B	3.62E+00	2.11E+02	1.29E+01	2.48E+01	2.04E-01	2.22E+01	4.38E-01
RCA-DEP5-032-B	3.94E+00	2.08E+02	1.31E+01	2.75E+01	2.43E-01	1.92E+01	4.36E-01
RCA-DEP6-032-B	3.88E+00	2.07E+02	1.33E+01	2.39E+01	1.62E-01	1.86E+01	4.44E-01
RCA-SOIL-033-B	3.90E+00	1.59E+02	1.24E+01	1.84E+01	2.19E-01	2.33E+01	4.46E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-034-B	3.17E-01	9.57E-01	5.08E-02	4.03E-02	1.74E-02	1.74E-02	5.48E-02
RCA-DEP1-034-B	4.23E-02	4.89E+00	7.09E-02	5.06E-02	1.43E-02	1.34E-02	7.72E-02
RCA-DEP2-034-B	9.42E-02	4.71E+01	1.59E-01	3.32E-02	1.14E-02	9.18E-03	1.85E-01
RCA-DEP3-034-B	1.67E-02	1.49E+01	1.09E-01	2.81E-02	1.20E-02	1.04E-02	1.18E-01
RCA-DEP4-034-B	1.45E-02	2.99E+00	5.10E-02	3.92E-02	1.11E-02	1.24E-02	6.28E-02
RCA-DEP5-034-B	1.96E-02	2.62E+00	5.48E-02	3.59E-02	1.19E-02	9.98E-03	5.70E-02
RCA-DEP6-034-B	1.09E-02	1.66E+00	3.90E-02	2.52E-02	8.62E-03	7.74E-03	4.05E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-034-B	4.87E-01	3.86E-01	3.86E-01	2.60E-02	2.39E-01	2.21E-01	2.21E-01
RCA-DEP1-034-B	5.10E-01	2.30E-01	2.30E-01	3.65E-02	1.20E-01	6.49E-02	6.49E-02
RCA-DEP2-034-B	6.37E-01	5.36E-01	5.36E-01	5.35E-02	1.49E-01	1.90E-01	1.90E-01
RCA-DEP3-034-B	6.51E-01	2.97E-01	2.97E-01	3.22E-02	1.25E-01	1.05E-01	1.05E-01
RCA-DEP4-034-B	5.78E-01	5.60E-01	5.60E-01	6.23E-02	1.05E-01	1.21E-01	1.21E-01
RCA-DEP5-034-B	4.41E-01	3.37E-01	3.37E-01	3.00E-02	6.82E-02	6.82E-02	6.82E-02
RCA-DEP6-034-B	5.03E-01	3.81E-01	3.81E-01	6.18E-02	1.18E-01	1.36E-01	1.36E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-034-B	4.24E+00	1.73E+02	1.57E+01	1.92E+01	2.24E-01	2.49E+01	4.61E-01
RCA-DEP1-034-B	4.27E+00	1.79E+02	1.89E+01	1.86E+01	2.24E-01	2.31E+01	4.57E-01
RCA-DEP2-034-B	4.24E+00	1.78E+02	1.56E+01	2.04E+01	2.89E-01	2.24E+01	4.22E-01
RCA-DEP3-034-B	4.10E+00	1.66E+02	1.52E+01	1.85E+01	2.82E-01	1.99E+01	4.19E-01
RCA-DEP4-034-B	3.71E+00	1.72E+02	1.45E+01	1.67E+01	1.78E-01	2.47E+01	4.13E-01
RCA-DEP5-034-B	3.22E+00	1.70E+02	1.47E+01	1.77E+01	2.47E-01	2.29E+01	4.28E-01
RCA-DEP6-034-B	3.99E+00	1.77E+02	1.56E+01	1.94E+01	2.65E-01	2.51E+01	4.16E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-043-B	1.11E-01	5.41E+00	6.19E-02	3.08E-02	1.00E-02	9.41E-03	6.73E-02
RCA-DEP1-043-B	1.88E-01	1.45E+01	1.24E-01	4.24E-02	1.59E-02	1.33E-02	1.39E-01
RCA-DEP2-043-B	3.54E-01	2.04E+00	4.38E-02	2.91E-02	1.29E-02	1.09E-02	4.78E-02
RCA-DEP3-043-B	1.14E+00	1.32E+01	1.05E-01	4.21E-02	1.93E-02	1.57E-02	1.18E-01
RCA-DEP4-043-B	5.75E-01	8.82E+00	8.33E-02	3.59E-02	1.47E-02	1.41E-02	9.49E-02
RCA-DEP5-043-B	3.98E-01	4.84E+00	7.66E-02	4.28E-02	1.72E-02	1.30E-02	7.79E-02
RCA-DEP6-043-B	2.44E-01	9.54E-01	3.88E-02	3.14E-02	1.13E-02	9.95E-03	3.84E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-043-B	4.48E-01	3.21E-01	3.21E-01	4.79E-02	1.69E-01	2.00E-01	2.00E-01
RCA-DEP1-043-B	4.84E-01	2.55E-01	2.55E-01	4.47E-02	2.68E-01	3.55E-01	3.55E-01
RCA-DEP2-043-B	2.14E-01	2.25E-01	2.25E-01	3.04E-02	2.23E-01	2.22E-01	2.22E-01
RCA-DEP3-043-B	5.96E-01	2.81E-01	2.81E-01	4.25E-02	1.81E-01	2.53E-01	2.53E-01
RCA-DEP4-043-B	2.74E-01	2.23E-01	2.23E-01	2.78E-02	1.67E-01	1.67E-01	1.67E-01
RCA-DEP5-043-B	3.39E-01	2.18E-01	2.18E-01	3.03E-02	2.79E-01	2.58E-01	2.58E-01
RCA-DEP6-043-B	3.87E-01	3.75E-01	3.75E-01	3.28E-02	2.30E-01	2.30E-01	2.30E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-043-B	4.14E+00	1.87E+02	1.43E+01	1.85E+01	2.33E-01	2.87E+01	4.33E-01
RCA-DEP1-043-B	3.89E+00	1.89E+02	1.48E+01	2.09E+01	2.14E-01	3.07E+01	4.18E-01
RCA-DEP2-043-B	3.70E+00	1.87E+02	1.62E+01	1.87E+01	4.79E-01	2.41E+01	3.98E-01
RCA-DEP3-043-B	3.85E+00	1.76E+02	1.58E+01	1.74E+01	7.38E-01	2.26E+01	4.08E-01
RCA-DEP4-043-B	3.82E+00	1.68E+02	1.42E+01	1.81E+01	2.67E+00	2.62E+01	4.03E-01
RCA-DEP5-043-B	4.11E+00	1.81E+02	1.67E+01	2.01E+01	3.52E+00	2.26E+01	4.23E-01
RCA-DEP6-043-B	3.82E+00	1.83E+02	1.47E+01	1.77E+01	5.03E+00	2.40E+01	4.21E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-044-B-I	2.03E-01	1.23E+00	4.67E-02	4.25E-02	1.34E-02	1.16E-02	4.77E-02
RCA-DEP1-044-B-I	1.14E-01	1.27E+01	9.85E-02	4.31E-02	1.58E-02	1.26E-02	1.10E-01
RCA-DEP2-044-B-I	1.60E-02	6.22E+00	7.54E-02	3.66E-02	1.29E-02	1.17E-02	8.24E-02
RCA-DEP3-044-B-I	1.22E-02	1.46E+00	4.75E-02	3.26E-02	1.06E-02	1.03E-02	4.81E-02
RCA-DEP4-044-B-I	1.08E-02	1.28E+00	4.33E-02	2.93E-02	1.11E-02	1.04E-02	4.72E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-044-B-I	7.81E-01	5.89E-01	5.89E-01	4.37E-02	3.22E-01	2.98E-01	2.98E-01
RCA-DEP1-044-B-I	4.07E-01	5.46E-01	5.46E-01	5.16E-02	2.72E-01	3.04E-01	3.04E-01
RCA-DEP2-044-B-I	6.59E-01	4.76E-01	4.76E-01	5.01E-02	2.20E-01	2.20E-01	2.20E-01
RCA-DEP3-044-B-I	4.95E-01	3.39E-01	3.39E-01	2.59E-02	1.78E-01	2.16E-01	2.16E-01
RCA-DEP4-044-B-I	5.81E-01	5.89E-01	5.89E-01	3.58E-02	1.89E-01	2.29E-01	2.29E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-044-B-I	3.78E+00	5.59E+01	1.51E+01	1.07E+01	2.57E-01	2.91E+01	4.27E-01
RCA-DEP1-044-B-I	3.81E+00	7.24E+01	1.53E+01	1.09E+01	2.27E-01	3.56E+01	4.32E-01
RCA-DEP2-044-B-I	3.54E+00	5.70E+01	1.49E+01	1.08E+01	2.32E-01	2.55E+01	4.03E-01
RCA-DEP3-044-B-I	3.77E+00	6.27E+01	1.99E+01	9.07E+00	2.75E-01	2.02E+01	4.38E-01
RCA-DEP4-044-B-I	3.78E+00	5.49E+01	1.97E+01	9.16E+00	3.60E-01	2.08E+01	4.11E-01
Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-045-B-I	3.94E-02	9.10E-01	3.79E-02	4.49E-02	1.20E-02	1.27E-02	4.42E-02
RCA-DEP1-045-B-I	7.39E-02	7.14E+00	8.32E-02	3.80E-02	1.33E-02	9.31E-03	9.17E-02
RCA-DEP2-045-B-I	1.85E-02	2.52E+00	6.12E-02	4.43E-02	1.28E-02	1.18E-02	6.26E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-045-B-I	5.99E-01	7.74E-01	7.74E-01	3.09E-02	2.62E-01	3.01E-01	3.01E-01
RCA-DEP1-045-B-I	5.82E-01	2.79E-01	2.79E-01	3.58E-02	2.27E-01	2.26E-01	2.26E-01
RCA-DEP2-045-B-I	4.34E-01	2.99E-01	2.99E-01	3.80E-02	3.25E-01	3.51E-01	3.51E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-045-B-I	3.60E+00	6.29E+01	2.00E+01	1.13E+01	2.28E-01	2.81E+01	4.20E-01
RCA-DEP1-045-B-I	3.62E+00	7.28E+01	1.98E+01	1.26E+01	2.06E-01	2.82E+01	4.17E-01
RCA-DEP2-045-B-I	3.79E+00	6.73E+01	2.02E+01	1.11E+01	2.05E-01	3.48E+01	4.27E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-046-B-I	1.59E-02	2.32E+00	5.24E-02	2.89E-02	1.19E-02	1.17E-02	5.80E-02
RCA-DEP1-046-B-I	3.80E-01	2.52E+01	1.44E-01	4.03E-02	1.63E-02	1.24E-02	1.60E-01
RCA-DEP2-046-B-I	1.20E-01	2.14E+01	1.29E-01	3.85E-02	1.41E-02	1.31E-02	1.51E-01
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-046-B-I	5.76E-01	4.46E-01	4.46E-01	3.87E-02	2.24E-01	1.80E-01	1.80E-01
RCA-DEP1-046-B-I	8.53E-01	3.91E-01	3.91E-01	3.42E-02	2.87E-01	2.12E-01	2.12E-01
RCA-DEP2-046-B-I	4.81E-01	3.59E-01	3.59E-01	4.73E-02	1.99E-01	2.23E-01	2.23E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-046-B-I	3.59E+00	5.86E+01	1.47E+01	9.90E+00	2.20E-01	3.10E+01	4.40E-01
RCA-DEP1-046-B-I	3.81E+00	6.94E+01	1.49E+01	1.05E+01	5.00E-01	2.69E+01	4.39E-01
RCA-DEP2-046-B-I	3.56E+00	4.11E+01	1.47E+01	1.04E+01	3.02E-01	2.46E+01	4.42E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-047-B-I	6.97E-02	1.75E+00	5.48E-02	3.74E-02	1.50E-02	1.31E-02	5.98E-02
RCA-DEP1-047-B-I	1.28E-01	8.85E+00	9.90E-02	4.62E-02	1.59E-02	1.21E-02	1.08E-01
RCA-DEP2-047-B-I	1.33E-02	4.39E+00	6.40E-02	4.13E-02	1.24E-02	1.13E-02	7.07E-02
RCA-DEP3-047-B-I	8.65E-02	1.31E+01	1.01E-01	3.32E-02	1.24E-02	1.09E-02	1.12E-01
RCA-DEP4-047-B-I	1.61E-02	1.40E+00	4.51E-02	3.62E-02	1.30E-02	1.13E-02	4.98E-02
RCA-DEP5-047-B-I	1.52E-02	1.45E+00	4.50E-02	3.05E-02	1.08E-02	1.19E-02	4.80E-02
RCA-DEP6-047-B-I	1.68E-02	7.45E-01	3.31E-02	3.89E-02	1.21E-02	1.27E-02	4.10E-02
RCA-DEP7-047-B-I	1.44E-02	6.54E-01	3.53E-02	3.07E-02	1.16E-02	1.06E-02	3.53E-02
RCA-DEP8-047-B-I	1.55E-02	6.35E-01	3.85E-02	2.85E-02	1.15E-02	9.16E-03	3.60E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-047-B-I	5.88E-01	4.43E-01	4.43E-01	4.67E-02	2.89E-01	2.36E-01	2.36E-01
RCA-DEP1-047-B-I	6.64E-01	4.71E-01	4.71E-01	4.63E-02	2.60E-01	2.81E-01	2.81E-01
RCA-DEP2-047-B-I	5.40E-01	6.42E-01	6.42E-01	5.51E-02	3.15E-01	2.91E-01	2.91E-01
RCA-DEP3-047-B-I	6.92E-01	4.66E-01	4.66E-01	4.10E-02	2.46E-01	2.75E-01	2.75E-01
RCA-DEP4-047-B-I	7.07E-01	5.50E-01	5.50E-01	4.70E-02	1.82E-01	1.82E-01	1.82E-01
RCA-DEP5-047-B-I	4.56E-01	2.67E-01	2.67E-01	5.25E-02	2.88E-01	2.57E-01	2.57E-01
RCA-DEP6-047-B-I	5.57E-01	5.42E-01	5.42E-01	3.84E-02	1.77E-01	1.98E-01	1.98E-01
RCA-DEP7-047-B-I	6.73E-01	5.55E-01	5.55E-01	3.61E-02	2.45E-01	2.65E-01	2.65E-01
RCA-DEP8-047-B-I	6.50E-01	4.87E-01	4.87E-01	3.63E-02	2.74E-01	2.34E-01	2.34E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-047-B-I	3.55E+00	6.78E+01	1.49E+01	1.09E+01	3.06E-01	2.24E+01	4.27E-01
RCA-DEP1-047-B-I	3.79E+00	6.22E+01	1.53E+01	1.01E+01	2.76E-01	2.81E+01	4.27E-01
RCA-DEP2-047-B-I	3.79E+00	6.29E+01	1.46E+01	1.11E+01	2.29E-01	3.16E+01	4.60E-01
RCA-DEP3-047-B-I	3.81E+00	5.65E+01	1.54E+01	1.04E+01	2.61E-01	3.33E+01	4.39E-01
RCA-DEP4-047-B-I	3.81E+00	5.98E+01	1.52E+01	1.00E+01	2.24E-01	2.30E+01	4.31E-01
RCA-DEP5-047-B-I	3.77E+00	6.81E+01	1.49E+01	1.18E+01	2.16E-01	3.32E+01	4.29E-01
RCA-DEP6-047-B-I	3.78E+00	6.60E+01	1.48E+01	9.50E+00	3.44E-01	2.38E+01	4.44E-01
RCA-DEP7-047-B-I	3.80E+00	5.53E+01	1.50E+01	1.03E+01	4.58E-01	3.08E+01	4.35E-01
RCA-DEP8-047-B-I	3.78E+00	5.74E+01	1.51E+01	1.15E+01	4.30E-01	2.49E+01	4.30E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-048-B-I	6.41E-02	8.32E-01	4.35E-02	4.82E-02	1.52E-02	1.56E-02	4.66E-02
RCA-DEP1-048-B-I	4.52E-02	2.03E+00	5.60E-02	3.86E-02	1.48E-02	1.10E-02	5.55E-02
RCA-DEP2-048-B-I	2.39E-02	1.56E+00	4.98E-02	3.02E-02	1.23E-02	1.10E-02	5.37E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-048-B-I	9.46E-01	1.09E+00	1.09E+00	3.84E-02	2.95E-01	3.10E-01	3.10E-01
RCA-DEP1-048-B-I	8.69E-01	1.11E+00	1.11E+00	5.06E-02	2.62E-01	2.46E-01	2.46E-01
RCA-DEP2-048-B-I	9.71E-01	9.86E-01	9.86E-01	3.78E-02	3.02E-01	3.01E-01	3.01E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-048-B-I	3.62E+00	4.65E+01	2.04E+01	1.21E+01	1.31E-01	2.14E+01	4.17E-01
RCA-DEP1-048-B-I	3.76E+00	5.16E+01	2.03E+01	1.15E+01	2.86E-01	1.99E+01	4.37E-01
RCA-DEP2-048-B-I	3.62E+00	4.57E+01	1.99E+01	1.15E+01	2.58E-01	1.95E+01	4.13E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-049-B-I	2.18E-01	1.18E+01	1.05E-01	5.01E-02	2.08E-02	1.64E-02	1.21E-01
RCA-DEP1-049-B-I	1.15E-01	1.39E+01	1.22E-01	5.59E-02	1.71E-02	1.54E-02	1.33E-01
RCA-DEP2-049-B-I	5.38E-02	1.31E+01	1.13E-01	3.91E-02	1.20E-02	1.07E-02	1.25E-01
RCA-DEP3-049-B-I	1.14E-01	1.34E+01	1.03E-01	3.22E-02	1.46E-02	1.15E-02	1.17E-01
RCA-DEP4-049-B-I	1.02E-02	2.05E+00	5.54E-02	4.55E-02	1.35E-02	1.35E-02	5.72E-02
RCA-DEP5-049-B-I	2.33E-02	1.22E+00	4.27E-02	3.71E-02	1.21E-02	1.18E-02	4.87E-02
RCA-DEP6-049-B-I	1.27E-02	1.11E+00	3.15E-02	2.29E-02	7.50E-03	9.11E-03	3.76E-02
RCA-DEP7-049-B-I	1.93E-02	1.57E+00	5.19E-02	3.24E-02	1.26E-02	1.16E-02	5.33E-02
RCA-DEP8-049-B-I	1.37E-02	1.24E+00	4.46E-02	3.92E-02	1.40E-02	1.00E-02	4.49E-02
RCA-DEP9-049-B-I	7.39E-02	3.34E+00	5.95E-02	3.92E-02	1.09E-02	1.05E-02	5.71E-02
RCA-DEP10-049-B-I	1.26E-02	1.26E+00	3.99E-02	3.32E-02	1.22E-02	9.72E-03	4.08E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-049-B-I	6.67E-01	1.02E+00	1.02E+00	4.60E-02	4.78E-01	4.03E-01	4.03E-01
RCA-DEP1-049-B-I	7.04E-01	7.17E-01	7.17E-01	5.28E-02	2.18E-01	2.80E-01	2.80E-01
RCA-DEP2-049-B-I	7.09E-01	6.67E-01	6.67E-01	4.51E-02	4.31E-01	2.74E-01	2.74E-01
RCA-DEP3-049-B-I	5.65E-01	6.00E-01	6.00E-01	3.57E-02	3.94E-01	3.94E-01	3.94E-01
RCA-DEP4-049-B-I	6.73E-01	8.27E-01	8.27E-01	5.34E-02	3.73E-01	3.73E-01	3.73E-01
RCA-DEP5-049-B-I	6.67E-01	7.22E-01	7.22E-01	4.63E-02	4.11E-01	3.39E-01	3.39E-01
RCA-DEP6-049-B-I	5.62E-01	6.18E-01	6.18E-01	3.10E-02	4.77E-01	5.30E-01	5.30E-01
RCA-DEP7-049-B-I	6.14E-01	3.12E-01	3.12E-01	4.96E-02	2.76E-01	2.76E-01	2.76E-01
RCA-DEP8-049-B-I	5.13E-01	3.45E-01	3.45E-01	4.92E-02	4.52E-01	4.35E-01	4.35E-01
RCA-DEP9-049-B-I	5.36E-01	6.83E-01	6.83E-01	4.22E-02	2.92E-01	3.07E-01	3.07E-01
RCA-DEP10-049-B-I	4.35E-01	4.77E-01	4.77E-01	2.45E-02	2.95E-01	3.07E-01	3.07E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-049-B-I	3.63E+00	5.71E+01	2.01E+01	1.22E+01	2.04E-01	2.30E+01	4.20E-01
RCA-DEP1-049-B-I	3.64E+00	5.40E+01	2.00E+01	1.30E+01	1.86E-01	1.71E+01	4.19E-01
RCA-DEP2-049-B-I	3.64E+00	5.53E+01	1.93E+01	1.18E+01	1.54E-01	2.06E+01	4.19E-01
RCA-DEP3-049-B-I	3.79E+00	5.74E+01	1.97E+01	1.16E+01	2.32E-01	2.04E+01	4.16E-01
RCA-DEP4-049-B-I	3.78E+00	6.57E+01	2.00E+01	1.16E+01	3.43E-01	2.23E+01	4.16E-01
RCA-DEP5-049-B-I	3.63E+00	5.97E+01	1.98E+01	1.15E+01	3.30E-01	2.19E+01	4.26E-01
RCA-DEP6-049-B-I	3.64E+00	4.88E+01	1.92E+01	1.16E+01	3.11E-01	2.34E+01	4.20E-01
RCA-DEP7-049-B-I	3.79E+00	5.08E+01	1.66E+01	1.16E+01	2.45E-01	1.71E+01	4.10E-01
RCA-DEP8-049-B-I	3.59E+00	5.33E+01	1.65E+01	1.11E+01	1.89E-01	2.12E+01	4.19E-01
RCA-DEP9-049-B-I	4.37E+00	6.29E+01	1.78E+01	1.60E+01	2.92E-01	2.10E+01	4.02E-01
RCA-DEP10-049-B-I	4.31E+00	4.67E+01	1.79E+01	9.74E+00	1.98E-01	1.82E+01	4.01E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-050-B-I	7.95E-02	8.02E-01	4.48E-02	3.84E-02	1.60E-02	1.40E-02	4.43E-02
RCA-DEP1-050-B-I	2.84E-02	9.91E-01	4.44E-02	4.31E-02	1.25E-02	1.27E-02	5.24E-02
RCA-DEP2-050-B-I	2.30E-02	2.59E+00	5.34E-02	3.81E-02	1.51E-02	1.16E-02	6.06E-02
RCA-DEP3-050-B-I	2.54E-01	1.68E+02	3.83E-01	4.49E-02	2.27E-02	2.31E-02	4.23E-01
RCA-DEP4-050-B-I	9.15E-02	4.90E+01	1.95E-01	3.50E-02	1.45E-02	1.38E-02	2.16E-01
RCA-DEP5-050-B-I	4.03E-02	2.66E+01	1.46E-01	3.93E-02	1.23E-02	1.17E-02	1.60E-01
RCA-DEP6-050-B-I	1.29E-02	1.89E+00	4.82E-02	4.54E-02	1.39E-02	1.29E-02	5.06E-02
RCA-DEP7-050-B-I	1.66E-02	2.49E+00	4.76E-02	2.74E-02	9.48E-03	8.88E-03	5.23E-02
RCA-DEP8-050-B-I	2.14E-02	3.75E+00	7.52E-02	4.45E-02	1.56E-02	1.48E-02	8.31E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-050-B-I	6.41E-01	4.08E-01	4.08E-01	5.87E-02	3.20E-01	3.89E-01	3.89E-01
RCA-DEP1-050-B-I	3.95E-01	2.39E-01	2.39E-01	4.71E-02	2.97E-01	3.12E-01	3.12E-01
RCA-DEP2-050-B-I	4.35E-01	3.29E-01	3.29E-01	4.08E-02	3.87E-01	4.02E-01	4.02E-01
RCA-DEP3-050-B-I	1.30E+00	4.31E-01	4.31E-01	4.54E-02	1.86E-01	1.86E-01	1.86E-01
RCA-DEP4-050-B-I	7.64E-01	4.38E-01	4.38E-01	3.99E-02	2.06E-01	2.65E-01	2.65E-01
RCA-DEP5-050-B-I	8.23E-01	3.48E-01	3.48E-01	4.59E-02	1.89E-01	2.11E-01	2.11E-01
RCA-DEP6-050-B-I	4.29E-01	3.59E-01	3.59E-01	4.14E-02	1.97E-01	1.63E-01	1.63E-01
RCA-DEP7-050-B-I	3.95E-01	2.68E-01	2.68E-01	4.17E-02	2.11E-01	2.85E-01	2.85E-01
RCA-DEP8-050-B-I	4.18E-01	2.45E-01	2.45E-01	3.44E-02	2.48E-01	2.34E-01	2.34E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-050-B-I	3.64E+00	5.33E+01	1.66E+01	1.19E+01	4.88E-01	1.97E+01	4.20E-01
RCA-DEP1-050-B-I	3.38E+00	6.49E+01	1.62E+01	1.20E+01	2.36E-01	1.73E+01	4.29E-01
RCA-DEP2-050-B-I	3.31E+00	6.18E+01	1.63E+01	1.19E+01	2.39E-01	1.97E+01	4.26E-01
RCA-DEP3-050-B-I	3.29E+00	5.45E+01	1.62E+01	1.15E+01	1.71E-01	1.82E+01	4.20E-01
RCA-DEP4-050-B-I	3.39E+00	5.87E+01	1.66E+01	1.07E+01	1.93E-01	2.27E+01	4.32E-01
RCA-DEP5-050-B-I	3.33E+00	5.89E+01	1.67E+01	1.18E+01	1.94E-01	2.12E+01	4.30E-01
RCA-DEP6-050-B-I	3.33E+00	5.84E+01	1.65E+01	1.17E+01	3.03E-01	1.84E+01	4.32E-01
RCA-DEP7-050-B-I	3.39E+00	5.60E+01	1.65E+01	1.11E+01	2.12E-01	2.74E+01	4.34E-01
RCA-DEP8-050-B-I	3.34E+00	6.20E+01	1.64E+01	1.20E+01	3.06E-01	2.35E+01	4.36E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-051-B-I	9.92E-02	1.36E+00	4.31E-02	3.32E-02	1.45E-02	1.22E-02	4.68E-02
RCA-DEP1-051-B-I	9.27E-03	1.69E+00	5.13E-02	4.03E-02	1.08E-02	1.12E-02	5.08E-02
RCA-DEP2-051-B-I	1.60E-02	8.70E-01	4.00E-02	3.76E-02	1.11E-02	1.07E-02	4.19E-02
RCA-DEP3-051-B-I	1.26E-02	8.43E-01	4.17E-02	4.02E-02	1.02E-02	1.16E-02	4.38E-02
RCA-DEP4-051-B-I	1.69E-02	9.47E-01	4.32E-02	3.83E-02	1.37E-02	1.17E-02	4.39E-02
RCA-DEP5-051-B-I	9.56E-03	7.12E-01	3.40E-02	2.59E-02	1.05E-02	8.86E-03	3.58E-02
RCA-DEP6-051-B-I	1.13E-02	6.50E-02	3.75E-02	4.66E-02	1.12E-02	1.27E-02	3.20E-02
RCA-DEP7-051-B-I	9.31E-03	5.27E-02	3.29E-02	4.10E-02	1.28E-02	1.19E-02	3.13E-02
RCA-DEP8-051-B-I	1.05E-02	3.99E-02	2.38E-02	2.85E-02	1.06E-02	8.34E-03	2.47E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-051-B-I	4.11E-01	2.73E-01	2.73E-01	3.84E-02	3.24E-01	2.89E-01	2.89E-01
RCA-DEP1-051-B-I	3.61E-01	2.42E-01	2.42E-01	4.65E-02	2.60E-01	2.74E-01	2.74E-01
RCA-DEP2-051-B-I	2.66E-01	2.41E-01	2.41E-01	4.86E-02	1.34E-01	1.16E-01	1.16E-01
RCA-DEP3-051-B-I	4.35E-01	2.78E-01	2.78E-01	5.23E-02	1.52E-01	1.76E-01	1.76E-01
RCA-DEP4-051-B-I	1.71E-01	1.97E-01	1.97E-01	4.62E-02	1.31E-01	1.91E-01	1.91E-01
RCA-DEP5-051-B-I	1.92E-01	1.52E-01	1.52E-01	5.64E-02	1.53E-01	1.82E-01	1.82E-01
RCA-DEP6-051-B-I	2.69E-01	1.40E-01	1.40E-01	4.67E-02	2.23E-01	1.64E-01	1.64E-01
RCA-DEP7-051-B-I	2.80E-01	1.63E-01	1.63E-01	4.51E-02	1.86E-01	2.81E-01	2.81E-01
RCA-DEP8-051-B-I	1.74E-01	1.07E-01	1.07E-01	4.54E-02	1.51E-01	1.31E-01	1.31E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-051-B-I	3.62E+00	5.22E+01	1.66E+01	1.20E+01	1.61E-01	2.08E+01	4.28E-01
RCA-DEP1-051-B-I	3.38E+00	6.39E+01	1.68E+01	1.22E+01	1.85E-01	2.37E+01	4.24E-01
RCA-DEP2-051-B-I	3.32E+00	6.52E+01	1.67E+01	1.16E+01	4.80E-01	2.41E+01	4.26E-01
RCA-DEP3-051-B-I	3.38E+00	6.66E+01	1.67E+01	1.25E+01	3.91E-01	3.34E+01	4.27E-01
RCA-DEP4-051-B-I	3.40E+00	6.09E+01	1.84E+01	1.18E+01	3.34E-01	2.80E+01	4.21E-01
RCA-DEP5-051-B-I	3.33E+00	5.84E+01	1.82E+01	1.27E+01	3.16E-01	2.61E+01	4.42E-01
RCA-DEP6-051-B-I	2.66E+00	7.35E+01	1.86E+01	1.66E+01	3.45E-01	3.00E+01	4.06E-01
RCA-DEP7-051-B-I	2.64E+00	8.14E+01	1.85E+01	1.74E+01	4.27E-01	4.06E+01	3.99E-01
RCA-DEP8-051-B-I	2.67E+00	6.37E+01	1.71E+01	1.69E+01	3.35E-01	3.57E+01	4.04E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-052-B-I	9.74E-01	2.23E+00	7.72E-02	6.24E-02	2.87E-02	2.27E-02	8.16E-02
RCA-DEP1-052-B-I	1.94E-02	6.21E-01	4.46E-02	3.72E-02	1.16E-02	1.02E-02	4.60E-02
RCA-DEP2-052-B-I	1.34E-02	5.67E-01	4.78E-02	4.09E-02	1.31E-02	1.33E-02	4.48E-02
RCA-DEP3-052-B-I	9.62E-03	5.47E-01	3.18E-02	2.75E-02	8.59E-03	8.84E-03	2.82E-02
RCA-DEP4-052-B-I	8.03E-03	3.45E-02	2.76E-02	2.45E-02	9.27E-03	8.33E-03	2.17E-02
RCA-DEP5-052-B-I	1.70E-02	3.12E-02	4.15E-02	5.33E-02	1.77E-02	1.42E-02	3.96E-02
RCA-DEP6-052-B-I	1.68E-02	1.76E-02	4.07E-02	4.12E-02	1.74E-02	1.37E-02	3.49E-02
RCA-DEP7-052-B-I	1.56E-02	2.95E-02	3.89E-02	3.67E-02	1.49E-02	1.27E-02	2.87E-02
RCA-DEP8-052-B-I	1.46E-02	1.83E-02	3.35E-02	3.52E-02	9.62E-03	1.04E-02	2.71E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-052-B-I	3.55E-01	1.85E-01	1.85E-01	4.80E-02	1.49E-01	1.49E-01	1.49E-01
RCA-DEP1-052-B-I	3.36E-01	1.57E-01	1.57E-01	3.61E-02	1.22E-01	1.79E-01	1.79E-01
RCA-DEP2-052-B-I	2.62E-01	9.23E-02	9.23E-02	3.34E-02	5.40E-01	3.43E-01	3.43E-01
RCA-DEP3-052-B-I	2.62E-01	2.49E-01	2.49E-01	3.17E-02	3.49E-01	3.49E-01	3.49E-01
RCA-DEP4-052-B-I	1.40E-01	1.20E-01	1.20E-01	4.12E-02	1.80E-01	1.51E-01	1.51E-01
RCA-DEP5-052-B-I	1.59E-01	1.60E-01	1.60E-01	4.91E-02	1.87E-01	1.57E-01	1.57E-01
RCA-DEP6-052-B-I	2.13E-01	1.08E-01	1.08E-01	4.09E-02	1.38E-01	1.38E-01	1.38E-01
RCA-DEP7-052-B-I	2.73E-01	7.27E-02	7.27E-02	4.90E-02	1.14E-01	1.57E-01	1.57E-01
RCA-DEP8-052-B-I	2.70E-01	1.78E-01	1.78E-01	4.07E-02	2.05E-01	1.40E-01	1.40E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-052-B-I	3.32E+00	5.72E+01	1.82E+01	1.21E+01	5.05E-01	2.54E+01	4.30E-01
RCA-DEP1-052-B-I	3.39E+00	6.43E+01	1.76E+01	1.30E+01	5.33E-01	2.55E+01	4.34E-01
RCA-DEP2-052-B-I	4.37E+00	6.41E+01	1.80E+01	1.18E+01	2.40E-01	3.22E+01	4.30E-01
RCA-DEP3-052-B-I	3.82E+00	6.64E+01	1.85E+01	1.11E+01	1.64E-01	2.28E+01	4.08E-01
RCA-DEP4-052-B-I	2.67E+00	7.90E+01	1.80E+01	1.63E+01	2.46E-01	3.40E+01	4.06E-01
RCA-DEP5-052-B-I	2.65E+00	6.86E+01	1.87E+01	1.62E+01	4.80E-01	3.73E+01	4.09E-01
RCA-DEP6-052-B-I	2.67E+00	8.09E+01	1.83E+01	1.69E+01	4.19E-01	3.65E+01	4.05E-01
RCA-DEP7-052-B-I	2.66E+00	7.77E+01	1.90E+01	1.63E+01	4.55E-01	3.57E+01	4.09E-01
RCA-DEP8-052-B-I	2.68E+00	7.94E+01	1.87E+01	1.65E+01	3.33E-01	3.52E+01	4.06E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-053-B-I	2.85E-01	1.74E+00	6.19E-02	4.27E-02	1.17E-02	1.47E-02	6.24E-02
RCA-DEP1-053-B-I	2.18E-02	3.99E-01	4.53E-02	4.47E-02	1.82E-02	1.36E-02	4.78E-02
RCA-DEP2-053-B-I	1.55E-02	1.54E-01	3.22E-02	2.60E-02	1.54E-02	1.39E-02	3.48E-02
RCA-DEP3-053-B-I	1.01E-02	1.67E-01	2.37E-02	2.28E-02	1.05E-02	7.74E-03	2.50E-02
RCA-DEP4-053-B-I	1.31E-02	1.17E-01	2.93E-02	3.38E-02	1.36E-02	9.24E-03	3.50E-02
RCA-DEP5-053-B-I	1.62E-02	3.40E-01	4.50E-02	5.53E-02	1.63E-02	1.41E-02	5.12E-02
RCA-DEP6-053-B-I	1.61E-02	6.53E-01	4.53E-02	4.82E-02	1.23E-02	1.13E-02	4.49E-02
RCA-DEP7-053-B-I	1.80E-02	4.32E-01	3.84E-02	5.07E-02	1.23E-02	1.28E-02	3.65E-02
RCA-DEP8-053-B-I	1.28E-02	1.35E-01	3.04E-02	2.69E-02	1.04E-02	8.78E-03	2.56E-02
RCA-DEP9-053-B-I	1.55E-02	9.05E-02	2.67E-02	3.22E-02	1.28E-02	9.71E-03	2.75E-02
RCA-DEP10-053-B-I	1.39E-02	1.33E-01	3.00E-02	3.16E-02	1.14E-02	1.15E-02	3.12E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-053-B-I	3.70E-01	1.65E-01	1.65E-01	3.47E-02	3.46E-01	3.46E-01	3.46E-01
RCA-DEP1-053-B-I	1.98E-01	2.79E-01	2.79E-01	2.83E-02	3.80E-01	3.14E-01	3.14E-01
RCA-DEP2-053-B-I	3.38E-01	2.47E-01	2.47E-01	4.07E-02	2.44E-01	1.67E-01	1.67E-01
RCA-DEP3-053-B-I	2.78E-01	2.58E-01	2.58E-01	5.09E-02	8.52E-02	1.57E-01	1.57E-01
RCA-DEP4-053-B-I	3.28E-01	3.59E-01	3.59E-01	3.59E-02	1.18E-01	1.18E-01	1.18E-01
RCA-DEP5-053-B-I	3.91E-01	2.36E-01	2.36E-01	3.90E-02	3.80E-01	4.22E-01	4.22E-01
RCA-DEP6-053-B-I	5.22E-01	6.83E-01	6.83E-01	4.44E-02	2.27E-01	2.76E-01	2.76E-01
RCA-DEP7-053-B-I	5.53E-01	6.43E-01	6.43E-01	2.71E-02	2.83E-01	2.53E-01	2.53E-01
RCA-DEP8-053-B-I	2.61E-01	2.04E-01	2.04E-01	4.59E-02	1.62E-01	1.74E-01	1.74E-01
RCA-DEP9-053-B-I	2.30E-01	2.00E-01	2.00E-01	4.88E-02	1.18E-01	7.38E-02	7.38E-02
RCA-DEP10-053-B-I	2.79E-01	1.69E-01	1.69E-01	3.64E-02	1.48E-01	1.48E-01	1.48E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-053-B-I	3.70E+00	6.70E+01	1.84E+01	1.20E+01	3.90E-01	2.47E+01	4.03E-01
RCA-DEP1-053-B-I	3.49E+00	5.63E+01	1.83E+01	1.28E+01	2.46E-01	2.48E+01	4.06E-01
RCA-DEP2-053-B-I	2.69E+00	7.22E+01	1.85E+01	1.65E+01	3.64E-01	3.57E+01	4.08E-01
RCA-DEP3-053-B-I	2.65E+00	7.15E+01	1.88E+01	1.71E+01	5.03E-01	4.03E+01	3.99E-01
RCA-DEP4-053-B-I	2.66E+00	7.99E+01	1.84E+01	1.59E+01	4.90E-01	5.26E+01	4.00E-01
RCA-DEP5-053-B-I	4.38E+00	6.65E+01	1.85E+01	1.20E+01	1.91E-01	2.25E+01	3.94E-01
RCA-DEP6-053-B-I	3.51E+00	5.30E+01	1.78E+01	1.11E+01	2.20E-01	1.72E+01	7.72E-01
RCA-DEP7-053-B-I	4.36E+00	5.75E+01	1.85E+01	1.14E+01	1.51E-01	2.24E+01	4.06E-01
RCA-DEP8-053-B-I	2.64E+00	7.31E+01	1.84E+01	1.56E+01	4.45E-01	3.11E+01	4.05E-01
RCA-DEP9-053-B-I	2.60E+00	7.23E+01	1.88E+01	1.49E+01	3.16E-01	3.36E+01	3.94E-01
RCA-DEP10-053-B-I	2.63E+00	7.78E+01	1.82E+01	1.53E+01	5.06E-01	2.93E+01	4.02E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-054-B-I	2.84E-02	3.25E-01	3.48E-02	4.02E-02	1.22E-02	1.19E-02	3.38E-02
RCA-DEP1-054-B-I	2.96E-02	1.47E+01	1.26E-01	3.89E-02	1.60E-02	1.23E-02	1.38E-01
RCA-DEP2-054-B-I	1.31E-02	2.26E+00	4.38E-02	3.54E-02	1.10E-02	9.56E-03	5.04E-02
RCA-DEP3-054-B-I	1.33E-02	1.05E+00	4.06E-02	3.35E-02	1.00E-02	1.12E-02	3.97E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-054-B-I	4.47E-01	8.06E-01	8.06E-01	4.41E-02	1.97E-01	2.21E-01	2.21E-01
RCA-DEP1-054-B-I	7.56E-01	7.59E-01	7.59E-01	3.74E-02	2.40E-01	1.98E-01	1.98E-01
RCA-DEP2-054-B-I	4.38E-01	5.39E-01	5.39E-01	1.02E-02	2.42E-01	1.78E-01	1.78E-01
RCA-DEP3-054-B-I	4.79E-01	4.47E-01	4.47E-01	2.48E-02	2.38E-01	2.67E-01	2.67E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-054-B-I	4.33E+00	6.00E+01	1.82E+01	1.10E+01	2.56E-01	2.65E+01	4.03E-01
RCA-DEP1-054-B-I	4.36E+00	6.99E+01	1.82E+01	1.25E+01	2.79E-01	2.80E+01	4.05E-01
RCA-DEP2-054-B-I	4.37E+00	6.72E+01	1.85E+01	1.10E+01	2.03E-01	2.30E+01	4.12E-01
RCA-DEP3-054-B-I	3.48E+00	6.55E+01	1.85E+01	1.01E+01	2.57E-01	2.92E+01	4.08E-01
Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-055-B-I	3.51E-02	3.51E-01	4.07E-02	4.44E-02	1.16E-02	9.79E-03	3.44E-02
RCA-DEP1-055-B-I	1.29E-01	1.91E+01	1.20E-01	4.22E-02	1.45E-02	1.40E-02	1.46E-01
RCA-DEP2-055-B-I	1.39E-02	1.32E+00	5.05E-02	4.66E-02	1.34E-02	1.34E-02	5.24E-02
RCA-DEP3-055-B-I	1.13E-02	3.20E-01	3.01E-02	3.47E-02	1.28E-02	1.09E-02	3.21E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-055-B-I	3.71E-01	2.31E-01	2.31E-01	2.75E-02	1.11E-01	1.77E-01	1.77E-01
RCA-DEP1-055-B-I	4.36E-01	5.79E-01	5.79E-01	2.19E-02	3.32E-01	2.72E-01	2.72E-01
RCA-DEP2-055-B-I	6.45E-01	5.82E-01	5.82E-01	2.27E-02	2.60E-01	2.81E-01	2.81E-01
RCA-DEP3-055-B-I	1.27E-01	9.77E-02	9.77E-02	5.02E-02	1.39E-01	1.65E-01	1.65E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-055-B-I	2.65E+00	7.10E+01	1.85E+01	1.62E+01	4.03E-01	4.63E+01	4.03E-01
RCA-DEP1-055-B-I	3.48E+00	6.46E+01	1.83E+01	1.17E+01	1.78E-01	2.62E+01	4.09E-01
RCA-DEP2-055-B-I	3.56E+00	6.10E+01	1.66E+01	1.18E+01	1.79E-01	2.58E+01	4.10E-01
RCA-DEP3-055-B-I	2.66E+00	7.51E+01	1.86E+01	1.62E+01	4.64E-01	3.24E+01	3.99E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-056-B-I	2.29E-01	2.62E+00	5.23E-02	3.69E-02	1.11E-02	1.05E-02	5.59E-02
RCA-DEP1-056-B-I	2.68E-02	3.25E+00	5.48E-02	4.27E-02	1.07E-02	1.14E-02	6.03E-02
RCA-DEP2-056-B-I	1.47E-02	3.25E+00	6.45E-02	3.59E-02	1.07E-02	9.71E-03	6.68E-02
RCA-DEP3-056-B-I	1.67E-02	9.95E-01	4.16E-02	3.40E-02	1.22E-02	1.17E-02	4.26E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-056-B-I	5.00E-01	5.29E-01	5.29E-01	2.85E-02	2.87E-01	2.65E-01	2.65E-01
RCA-DEP1-056-B-I	5.68E-01	6.42E-01	6.42E-01	2.15E-02	2.56E-01	2.86E-01	2.86E-01
RCA-DEP2-056-B-I	5.10E-01	6.14E-01	6.14E-01	3.32E-02	2.03E-01	2.03E-01	2.03E-01
RCA-DEP3-056-B-I	4.79E-01	6.05E-01	6.05E-01	2.98E-02	2.03E-01	1.81E-01	1.81E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-056-B-I	3.47E+00	7.29E+01	1.66E+01	1.09E+01	2.58E-01	2.91E+01	8.49E-01
RCA-DEP1-056-B-I	3.47E+00	6.76E+01	1.69E+01	1.19E+01	2.11E-01	3.43E+01	4.10E-01
RCA-DEP2-056-B-I	3.50E+00	7.40E+01	1.70E+01	1.24E+01	2.15E-01	2.60E+01	4.06E-01
RCA-DEP3-056-B-I	3.53E+00	7.31E+01	1.69E+01	1.17E+01	1.97E-01	2.31E+01	4.09E-01
Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-057-B-I	9.60E-02	4.89E+00	8.37E-02	4.79E-02	1.61E-02	1.60E-02	9.11E-02
RCA-DEP1-057-B-I	1.57E-01	5.93E+01	2.35E-01	4.68E-02	1.58E-02	1.61E-02	2.76E-01
RCA-DEP2-057-B-I	1.47E-02	3.06E+00	5.94E-02	3.00E-02	1.24E-02	1.24E-02	6.10E-02
RCA-DEP3-057-B-I	1.40E-02	3.34E-01	4.69E-02	5.02E-02	1.53E-02	1.33E-02	4.84E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-057-B-I	6.20E-01	5.90E-01	5.90E-01	2.60E-02	2.05E-01	2.29E-01	2.29E-01
RCA-DEP1-057-B-I	7.46E-01	4.94E-01	4.94E-01	2.09E-02	2.27E-01	2.45E-01	2.45E-01
RCA-DEP2-057-B-I	4.71E-01	6.49E-01	6.49E-01	3.70E-02	3.34E-01	2.86E-01	2.86E-01
RCA-DEP3-057-B-I	2.66E-01	1.29E-01	1.29E-01	4.95E-02	7.99E-02	1.87E-01	1.87E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-057-B-I	3.44E+00	6.95E+01	1.70E+01	1.13E+01	1.61E-01	2.80E+01	4.42E-01
RCA-DEP1-057-B-I	3.51E+00	6.60E+01	1.71E+01	1.15E+01	2.92E-01	2.84E+01	4.15E-01
RCA-DEP2-057-B-I	3.56E+00	6.63E+01	1.68E+01	1.11E+01	1.59E-01	3.28E+01	4.08E-01
RCA-DEP3-057-B-I	2.64E+00	7.40E+01	1.81E+01	1.73E+01	3.94E-01	3.45E+01	4.02E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-058-B-I	1.37E-01	1.55E+00	6.01E-02	4.90E-02	1.79E-02	1.55E-02	5.74E-02
RCA-DEP1-058-B-I	4.71E-02	3.55E+00	6.63E-02	5.36E-02	1.46E-02	1.22E-02	7.64E-02
RCA-DEP2-058-B-I	2.17E-02	1.06E+00	5.51E-02	5.02E-02	1.82E-02	1.56E-02	5.67E-02
RCA-DEP3-058-B-I	1.48E-02	1.69E-01	3.10E-02	2.79E-02	1.06E-02	1.23E-02	3.03E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-058-B-I	6.03E-01	7.99E-01	7.99E-01	4.99E-02	3.14E-01	2.90E-01	2.90E-01
RCA-DEP1-058-B-I	4.41E-01	6.74E-01	6.74E-01	2.91E-02	2.15E-01	2.41E-01	2.41E-01
RCA-DEP2-058-B-I	4.98E-01	4.78E-01	4.78E-01	2.09E-02	2.07E-01	2.07E-01	2.07E-01
RCA-DEP3-058-B-I	1.29E-01	6.78E-02	6.78E-02	4.02E-02	1.18E-01	1.18E-01	1.18E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-058-B-I	3.52E+00	6.58E+01	1.67E+01	1.06E+01	3.10E-01	2.75E+01	4.44E-01
RCA-DEP1-058-B-I	3.54E+00	6.81E+01	1.72E+01	1.12E+01	2.25E-01	2.86E+01	4.08E-01
RCA-DEP2-058-B-I	3.53E+00	7.47E+01	1.66E+01	1.21E+01	2.69E-01	2.44E+01	4.07E-01
RCA-DEP3-058-B-I	2.67E+00	7.09E+01	1.80E+01	1.59E+01	3.01E-01	3.25E+01	4.00E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-059-B-I	8.19E-02	1.87E+00	5.75E-02	3.65E-02	1.60E-02	1.19E-02	5.83E-02
RCA-DEP1-059-B-I	1.60E-02	1.28E+00	4.63E-02	4.15E-02	1.36E-02	1.39E-02	4.64E-02
RCA-DEP2-059-B-I	1.48E-02	1.24E-01	3.88E-02	2.95E-02	1.14E-02	1.24E-02	3.57E-02
RCA-DEP3-059-B-I	1.55E-02	2.97E-01	3.65E-02	3.43E-02	1.31E-02	1.18E-02	3.39E-02
RCA-DEP4-059-B-I	1.32E-02	6.71E-01	3.45E-02	3.39E-02	1.11E-02	8.09E-03	3.87E-02
RCA-DEP5-059-B-I	1.06E-02	7.76E-01	3.10E-02	3.98E-02	1.17E-02	1.01E-02	3.71E-02
RCA-DEP6-059-B-I	8.40E-03	9.33E-02	2.82E-02	3.42E-02	9.81E-03	9.67E-03	2.81E-02
RCA-DEP7-059-B-I	7.58E-03	4.86E-02	2.56E-02	2.67E-02	1.02E-02	9.66E-03	2.57E-02
RCA-DEP8-059-B-I	1.80E-02	8.00E-02	3.64E-02	3.28E-02	1.17E-02	1.23E-02	3.34E-02
RCA-DEP9-059-B-I	1.22E-02	6.19E-02	2.48E-02	3.04E-02	1.18E-02	9.64E-03	2.76E-02
RCA-DEP10-059-B-I	1.05E-02	2.87E-02	3.01E-02	3.70E-02	1.13E-02	1.15E-02	2.48E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-059-B-I	4.58E-01	4.13E-01	4.13E-01	1.87E-02	2.41E-01	2.91E-01	2.91E-01
RCA-DEP1-059-B-I	5.87E-01	6.25E-01	6.25E-01	2.61E-02	2.32E-01	2.81E-01	2.81E-01
RCA-DEP2-059-B-I	2.94E-01	1.95E-01	1.95E-01	4.54E-02	1.18E-01	1.89E-01	1.89E-01
RCA-DEP3-059-B-I	3.47E-01	1.09E-01	1.09E-01	4.79E-02	1.44E-01	1.71E-01	1.71E-01
RCA-DEP4-059-B-I	4.57E-01	4.60E-01	4.60E-01	2.48E-02	2.18E-01	2.17E-01	2.17E-01
RCA-DEP5-059-B-I	4.23E-01	6.60E-01	6.60E-01	1.74E-02	3.04E-01	3.29E-01	3.29E-01
RCA-DEP6-059-B-I	1.49E-01	1.35E-01	1.35E-01	3.45E-02	1.01E-01	2.37E-01	2.37E-01
RCA-DEP7-059-B-I	1.94E-01	1.50E-01	1.50E-01	3.78E-02	1.53E-01	2.46E-01	2.46E-01
RCA-DEP8-059-B-I	2.97E-01	1.79E-01	1.79E-01	5.63E-02	2.17E-01	1.55E-01	1.55E-01
RCA-DEP9-059-B-I	2.17E-01	1.88E-01	1.88E-01	4.79E-02	6.66E-02	1.64E-01	1.64E-01
RCA-DEP10-059-B-I	2.09E-01	1.53E-01	1.53E-01	4.95E-02	7.11E-02	1.31E-01	1.31E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-059-B-I	3.56E+00	5.86E+01	1.68E+01	1.13E+01	1.55E-01	2.72E+01	4.22E-01
RCA-DEP1-059-B-I	3.49E+00	6.47E+01	1.66E+01	1.24E+01	2.53E-01	2.65E+01	4.09E-01
RCA-DEP2-059-B-I	2.60E+00	1.60E+02	1.84E+01	1.54E+01	1.68E-01	3.65E+01	4.00E-01
RCA-DEP3-059-B-I	2.58E+00	1.50E+02	1.91E+01	1.80E+01	2.09E-01	2.80E+01	4.04E-01
RCA-DEP4-059-B-I	3.69E+00	6.64E+01	1.70E+01	1.06E+01	1.65E-01	2.77E+01	4.06E-01
RCA-DEP5-059-B-I	3.50E+00	6.94E+01	1.68E+01	1.05E+01	1.12E-01	3.43E+01	4.10E-01
RCA-DEP6-059-B-I	2.60E+00	1.72E+02	1.89E+01	1.65E+01	2.30E-01	3.22E+01	4.09E-01
RCA-DEP7-059-B-I	2.63E+00	1.75E+02	1.88E+01	1.57E+01	2.36E-01	3.22E+01	4.07E-01
RCA-DEP8-059-B-I	2.61E+00	1.68E+02	1.91E+01	1.58E+01	1.98E-01	3.03E+01	4.11E-01
RCA-DEP9-059-B-I	2.63E+00	1.70E+02	1.90E+01	1.57E+01	1.87E-01	2.48E+01	4.09E-01
RCA-DEP10-059-B-I	2.61E+00	1.47E+02	1.76E+01	1.48E+01	1.83E-01	2.70E+01	4.05E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-060-B-I	5.05E-02	5.89E-01	3.23E-02	2.38E-02	9.80E-03	9.43E-03	3.45E-02
RCA-DEP1-060-B-I	1.78E-02	3.04E-01	3.71E-02	4.56E-02	1.30E-02	1.21E-02	4.10E-02
RCA-DEP2-060-B-I	1.47E-02	8.33E-02	3.84E-02	3.79E-02	1.23E-02	1.01E-02	3.81E-02
RCA-DEP3-060-B-I	1.13E-02	7.36E-02	3.02E-02	3.19E-02	1.17E-02	1.06E-02	2.70E-02
RCA-DEP4-060-B-I	8.75E-03	6.35E-02	2.37E-02	2.41E-02	8.36E-03	9.90E-03	2.37E-02
RCA-DEP5-060-B-I	9.62E-03	1.61E-01	2.33E-02	2.40E-02	9.00E-03	8.10E-03	2.46E-02
RCA-DEP6-060-B-I	1.15E-02	9.63E-02	3.67E-02	3.77E-02	1.24E-02	1.20E-02	3.38E-02
RCA-DEP7-060-B-I	1.51E-02	7.67E-02	2.94E-02	3.92E-02	1.16E-02	1.19E-02	3.25E-02
RCA-DEP8-060-B-I	1.30E-02	7.77E-02	3.67E-02	3.21E-02	1.03E-02	1.10E-02	2.82E-02
RCA-DEP9-060-B-I	1.74E-02	6.26E-02	3.99E-02	4.62E-02	1.48E-02	1.32E-02	3.68E-02
RCA-DEP10-060-B-I	6.97E-03	2.13E-02	2.25E-02	2.18E-02	7.41E-03	7.01E-03	2.27E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-060-B-I	3.64E-01	5.41E-01	5.41E-01	3.07E-02	2.83E-01	3.26E-01	3.26E-01
RCA-DEP1-060-B-I	4.92E-01	6.14E-01	6.14E-01	3.47E-02	2.87E-01	3.00E-01	3.00E-01
RCA-DEP2-060-B-I	3.08E-01	2.05E-01	2.05E-01	5.89E-02	1.80E-01	2.14E-01	2.14E-01
RCA-DEP3-060-B-I	2.44E-01	1.52E-01	1.52E-01	3.55E-02	2.10E-01	2.21E-01	2.21E-01
RCA-DEP4-060-B-I	1.94E-01	1.42E-01	1.42E-01	3.85E-02	1.73E-01	1.73E-01	1.73E-01
RCA-DEP5-060-B-I	1.59E-01	1.42E-01	1.42E-01	2.93E-02	1.95E-01	1.95E-01	1.95E-01
RCA-DEP6-060-B-I	4.29E-01	2.43E-01	2.43E-01	5.75E-02	7.40E-02	1.82E-01	1.82E-01
RCA-DEP7-060-B-I	1.91E-01	1.39E-01	1.39E-01	3.39E-02	1.95E-01	2.19E-01	2.19E-01
RCA-DEP8-060-B-I	2.51E-01	1.76E-01	1.76E-01	5.77E-02	6.71E-02	1.37E-01	1.37E-01
RCA-DEP9-060-B-I	3.01E-01	9.67E-02	9.67E-02	2.38E-02	1.35E-01	1.72E-01	1.72E-01
RCA-DEP10-060-B-I	2.82E-01	2.37E-01	2.37E-01	2.73E-02	2.45E-01	2.64E-01	2.64E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-060-B-I	3.49E+00	7.49E+01	1.68E+01	1.34E+01	1.43E-01	3.18E+01	4.14E-01
RCA-DEP1-060-B-I	3.50E+00	6.46E+01	1.70E+01	1.21E+01	3.06E-01	2.82E+01	4.06E-01
RCA-DEP2-060-B-I	2.64E+00	1.57E+02	1.87E+01	1.59E+01	2.70E-01	3.47E+01	4.07E-01
RCA-DEP3-060-B-I	2.56E+00	1.55E+02	1.87E+01	1.66E+01	2.95E-01	3.17E+01	4.06E-01
RCA-DEP4-060-B-I	2.63E+00	1.61E+02	1.85E+01	1.50E+01	2.39E-01	2.64E+01	4.04E-01
RCA-DEP5-060-B-I	2.61E+00	1.77E+02	1.90E+01	1.86E+01	2.02E-01	3.91E+01	4.15E-01
RCA-DEP6-060-B-I	2.63E+00	1.57E+02	1.72E+01	1.58E+01	3.11E-01	2.60E+01	4.15E-01
RCA-DEP7-060-B-I	2.55E+00	1.54E+02	1.66E+01	1.75E+01	3.62E-01	2.78E+01	4.09E-01
RCA-DEP8-060-B-I	2.52E+00	7.03E+01	1.53E+01	1.98E+01	2.92E-01	2.54E+01	4.11E-01
RCA-DEP9-060-B-I	2.51E+00	6.10E+01	1.62E+01	1.79E+01	2.19E-01	3.00E+01	4.13E-01
RCA-DEP10-060-B-I	2.43E+00	4.07E+01	1.42E+01	1.76E+01	2.50E-01	3.29E+01	4.19E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-060-B-I	5.05E-02	5.89E-01	3.23E-02	2.38E-02	9.80E-03	9.43E-03	3.45E-02
RCA-DEP1-060-B-I	1.78E-02	3.04E-01	3.71E-02	4.56E-02	1.30E-02	1.21E-02	4.10E-02
RCA-DEP2-060-B-I	1.47E-02	8.33E-02	3.84E-02	3.79E-02	1.23E-02	1.01E-02	3.81E-02
RCA-DEP3-060-B-I	1.13E-02	7.36E-02	3.02E-02	3.19E-02	1.17E-02	1.06E-02	2.70E-02
RCA-DEP4-060-B-I	8.75E-03	6.35E-02	2.37E-02	2.41E-02	8.36E-03	9.90E-03	2.37E-02
RCA-DEP5-060-B-I	9.62E-03	1.61E-01	2.33E-02	2.40E-02	9.00E-03	8.10E-03	2.46E-02
RCA-DEP6-060-B-I	1.15E-02	9.63E-02	3.67E-02	3.77E-02	1.24E-02	1.20E-02	3.38E-02
RCA-DEP7-060-B-I	1.51E-02	7.67E-02	2.94E-02	3.92E-02	1.16E-02	1.19E-02	3.25E-02
RCA-DEP8-060-B-I	1.30E-02	7.77E-02	3.67E-02	3.21E-02	1.03E-02	1.10E-02	2.82E-02
RCA-DEP9-060-B-I	1.74E-02	6.26E-02	3.99E-02	4.62E-02	1.48E-02	1.32E-02	3.68E-02
RCA-DEP10-060-B-I	6.97E-03	2.13E-02	2.25E-02	2.18E-02	7.41E-03	7.01E-03	2.27E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-060-B-I	3.64E-01	5.41E-01	5.41E-01	3.07E-02	2.83E-01	3.26E-01	3.26E-01
RCA-DEP1-060-B-I	4.92E-01	6.14E-01	6.14E-01	3.47E-02	2.87E-01	3.00E-01	3.00E-01
RCA-DEP2-060-B-I	3.08E-01	2.05E-01	2.05E-01	5.89E-02	1.80E-01	2.14E-01	2.14E-01
RCA-DEP3-060-B-I	2.44E-01	1.52E-01	1.52E-01	3.55E-02	2.10E-01	2.21E-01	2.21E-01
RCA-DEP4-060-B-I	1.94E-01	1.42E-01	1.42E-01	3.85E-02	1.73E-01	1.73E-01	1.73E-01
RCA-DEP5-060-B-I	1.59E-01	1.42E-01	1.42E-01	2.93E-02	1.95E-01	1.95E-01	1.95E-01
RCA-DEP6-060-B-I	4.29E-01	2.43E-01	2.43E-01	5.75E-02	7.40E-02	1.82E-01	1.82E-01
RCA-DEP7-060-B-I	1.91E-01	1.39E-01	1.39E-01	3.39E-02	1.95E-01	2.19E-01	2.19E-01
RCA-DEP8-060-B-I	2.51E-01	1.76E-01	1.76E-01	5.77E-02	6.71E-02	1.37E-01	1.37E-01
RCA-DEP9-060-B-I	3.01E-01	9.67E-02	9.67E-02	2.38E-02	1.35E-01	1.72E-01	1.72E-01
RCA-DEP10-060-B-I	2.82E-01	2.37E-01	2.37E-01	2.73E-02	2.45E-01	2.64E-01	2.64E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-060-B-I	3.49E+00	7.49E+01	1.68E+01	1.34E+01	1.43E-01	3.18E+01	4.14E-01
RCA-DEP1-060-B-I	3.50E+00	6.46E+01	1.70E+01	1.21E+01	3.06E-01	2.82E+01	4.06E-01
RCA-DEP2-060-B-I	2.64E+00	1.57E+02	1.87E+01	1.59E+01	2.70E-01	3.47E+01	4.07E-01
RCA-DEP3-060-B-I	2.56E+00	1.55E+02	1.87E+01	1.66E+01	2.95E-01	3.17E+01	4.06E-01
RCA-DEP4-060-B-I	2.63E+00	1.61E+02	1.85E+01	1.50E+01	2.39E-01	2.64E+01	4.04E-01
RCA-DEP5-060-B-I	2.61E+00	1.77E+02	1.90E+01	1.86E+01	2.02E-01	3.91E+01	4.15E-01
RCA-DEP6-060-B-I	2.63E+00	1.57E+02	1.72E+01	1.58E+01	3.11E-01	2.60E+01	4.15E-01
RCA-DEP7-060-B-I	2.55E+00	1.54E+02	1.66E+01	1.75E+01	3.62E-01	2.78E+01	4.09E-01
RCA-DEP8-060-B-I	2.52E+00	7.03E+01	1.53E+01	1.98E+01	2.92E-01	2.54E+01	4.11E-01
RCA-DEP9-060-B-I	2.51E+00	6.10E+01	1.62E+01	1.79E+01	2.19E-01	3.00E+01	4.13E-01
RCA-DEP10-060-B-I	2.43E+00	4.07E+01	1.42E+01	1.76E+01	2.50E-01	3.29E+01	4.19E-01

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
RCA-SOIL-061-B-I	1.39E-01	4.66E-01	4.73E-02	3.46E-02	1.26E-02	1.14E-02	4.18E-02
RCA-DEP1-061-B-I	9.26E-02	2.81E-01	4.24E-02	5.16E-02	1.30E-02	1.34E-02	4.18E-02
RCA-DEP2-061-B-I	1.22E-02	1.33E-01	3.19E-02	1.45E-02	1.00E-02	1.10E-02	2.87E-02
RCA-DEP3-061-B-I	1.44E-02	8.46E-02	3.55E-02	3.74E-02	1.47E-02	1.11E-02	3.27E-02
RCA-DEP4-061-B-I	1.31E-02	4.93E-02	3.05E-02	4.01E-02	1.26E-02	1.25E-02	3.21E-02
RCA-DEP5-061-B-I	1.67E-02	2.06E-02	3.51E-02	4.84E-02	1.51E-02	1.60E-02	3.24E-02
RCA-DEP6-061-B-I	1.42E-02	9.77E-02	3.57E-02	3.40E-02	1.44E-02	1.16E-02	3.80E-02
RCA-DEP7-061-B-I	1.41E-02	4.01E-01	3.92E-02	3.87E-02	1.20E-02	1.21E-02	3.67E-02
RCA-DEP8-061-B-I	9.11E-03	6.50E-02	3.18E-02	3.11E-02	1.20E-02	9.34E-03	3.12E-02
RCA-DEP9-061-B-I	1.13E-02	1.69E-02	2.57E-02	2.53E-02	1.03E-02	8.70E-03	2.59E-02
RCA-DEP10-061-B-I	6.26E-03	1.35E-02	2.53E-02	2.83E-02	9.85E-03	9.23E-03	2.51E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
RCA-SOIL-061-B-I	3.52E-01	2.11E-01	2.11E-01	4.83E-02	2.90E-01	2.90E-01	2.90E-01
RCA-DEP1-061-B-I	3.16E-01	1.54E-01	1.54E-01	3.72E-02	3.56E-01	3.01E-01	3.01E-01
RCA-DEP2-061-B-I	3.34E-01	2.68E-01	2.68E-01	3.75E-02	2.59E-01	2.59E-01	2.59E-01
RCA-DEP3-061-B-I	5.42E-01	3.88E-01	3.88E-01	1.35E-02	1.78E-01	2.49E-01	2.49E-01
RCA-DEP4-061-B-I	3.27E-01	1.06E-01	1.06E-01	5.22E-02	2.31E-01	2.94E-01	2.94E-01
RCA-DEP5-061-B-I	2.85E-01	2.02E-01	2.02E-01	3.38E-02	2.84E-01	2.23E-01	2.23E-01
RCA-DEP6-061-B-I	2.45E-01	1.30E-01	1.30E-01	6.13E-02	1.14E-01	1.57E-01	1.57E-01
RCA-DEP7-061-B-I	2.63E-01	1.48E-01	1.48E-01	5.51E-02	2.85E-01	3.66E-01	3.66E-01
RCA-DEP8-061-B-I	2.70E-01	2.28E-01	2.28E-01	5.54E-02	2.07E-01	1.42E-01	1.42E-01
RCA-DEP9-061-B-I	1.32E-01	1.53E-01	1.53E-01	4.81E-02	2.14E-01	1.47E-01	1.47E-01
RCA-DEP10-061-B-I	2.13E-01	6.97E-02	6.97E-02	4.30E-02	1.96E-01	1.75E-01	1.75E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
RCA-SOIL-061-B-I	3.50E+00	1.01E+02	1.69E+01	3.71E+01	2.25E-01	1.98E+01	4.10E-01
RCA-DEP1-061-B-I	3.67E+00	9.45E+01	1.70E+01	2.96E+01	1.93E-01	1.80E+01	4.12E-01
RCA-DEP2-061-B-I	2.51E+00	6.71E+01	1.54E+01	1.98E+01	2.48E-01	2.91E+01	4.14E-01
RCA-DEP3-061-B-I	2.48E+00	6.09E+01	1.59E+01	1.97E+01	2.60E-01	2.53E+01	3.88E-01
RCA-DEP4-061-B-I	2.50E+00	6.24E+01	1.62E+01	2.07E+01	3.54E-01	2.61E+01	3.92E-01
RCA-DEP5-061-B-I	2.50E+00	5.73E+01	1.53E+01	1.93E+01	3.83E-01	3.73E+01	3.94E-01
RCA-DEP6-061-B-I	2.52E+00	5.95E+01	1.56E+01	1.86E+01	1.84E-01	4.52E+01	4.00E-01
RCA-DEP7-061-B-I	3.50E+00	1.08E+02	1.69E+01	1.92E+01	2.22E-01	2.35E+01	4.17E-01
RCA-DEP8-061-B-I	2.48E+00	5.49E+01	1.58E+01	1.96E+01	2.29E-01	4.48E+01	4.06E-01
RCA-DEP9-061-B-I	2.54E+00	8.46E+01	1.63E+01	1.86E+01	1.44E-01	4.03E+01	4.07E-01
RCA-DEP10-061-B-I	2.53E+00	7.47E+01	1.62E+01	1.54E+01	1.98E-01	4.37E+01	4.01E-01

Table 3-44 RCA Asphalt Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.70E-02	1.91E-02	2.67E-02	2.56E-02	9.84E-03	8.29E-03	2.40E-02
Max	1.05E+00	2.22E+00	6.52E-02	6.03E-02	1.91E-02	1.54E-02	6.37E-02
Average	2.17E-01	6.78E-01	4.11E-02	4.61E-02	1.46E-02	1.28E-02	3.92E-02
Standard Deviation	3.56E-01	8.63E-01	1.24E-02	1.01E-02	3.81E-03	2.48E-03	1.32E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.21E-01	1.50E-01	1.50E-01	2.30E-02	1.22E-01	1.66E-01	1.66E-01
Max	4.53E-01	3.18E-01	3.18E-01	3.99E-02	5.96E-01	6.20E-01	6.20E-01
Average	3.59E-01	2.46E-01	2.46E-01	3.20E-02	3.21E-01	3.54E-01	3.54E-01
Standard Deviation	8.36E-02	5.54E-02	5.54E-02	6.59E-03	1.55E-01	1.83E-01	1.83E-01
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.33E+00	9.07E+01	8.31E+00	1.78E+01	1.90E-01	3.88E+01	3.79E-01
Max	3.61E+00	2.03E+02	1.13E+01	2.34E+01	5.22E-01	8.15E+01	4.76E-01
Average	3.51E+00	1.45E+02	1.05E+01	2.11E+01	3.41E-01	5.43E+01	4.33E-01
Standard Deviation	9.62E-02	4.96E+01	9.79E-01	1.83E+00	1.16E-01	1.33E+01	4.03E-02

Table 3-45 RCA Soil Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.09E-02	1.23E-02	2.54E-02	2.13E-02	8.86E-03	8.62E-03	2.30E-02
Max	4.57E+00	1.18E+01	4.67E-01	3.18E-01	2.71E-01	2.18E-01	7.56E-01
Average	3.44E-01	1.78E+00	6.09E-02	4.90E-02	2.15E-02	1.86E-02	6.89E-02
Standard Deviation	9.05E-01	2.47E+00	6.69E-02	4.39E-02	3.98E-02	3.18E-02	1.11E-01
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.41E-01	6.08E-02	6.08E-02	1.87E-02	6.94E-02	6.94E-02	6.94E-02
Max	9.46E-01	1.09E+00	1.09E+00	6.42E-02	4.78E-01	4.03E-01	4.03E-01
Average	4.01E-01	3.23E-01	3.23E-01	3.73E-02	2.08E-01	2.14E-01	2.14E-01
Standard Deviation	1.76E-01	2.67E-01	2.67E-01	9.91E-03	8.91E-02	8.41E-02	8.41E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.65E+00	1.21E+01	1.24E+01	7.79E+00	1.22E-01	1.77E+01	4.03E-01
Max	4.36E+00	1.94E+02	2.83E+01	3.71E+01	5.19E-01	4.63E+01	8.49E-01
Average	3.65E+00	7.60E+01	1.75E+01	1.55E+01	2.54E-01	2.48E+01	4.73E-01
Standard Deviation	4.32E-01	5.11E+01	3.57E+00	7.24E+00	9.76E-02	5.12E+00	8.68E-02

Table 3-46 RCA DEP1 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.27E-03	1.03E-02	2.48E-02	1.97E-02	6.90E-03	9.20E-03	2.49E-02
Max	3.80E-01	5.93E+01	2.35E-01	5.59E-02	1.82E-02	1.61E-02	2.76E-01
Average	5.63E-02	5.77E+00	6.44E-02	4.06E-02	1.34E-02	1.23E-02	6.90E-02
Standard Deviation	7.48E-02	1.15E+01	4.54E-02	8.59E-03	2.46E-03	1.54E-03	5.45E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.69E-01	8.15E-02	8.15E-02	2.09E-02	6.69E-02	6.49E-02	6.49E-02
Max	8.69E-01	1.11E+00	1.11E+00	6.02E-02	3.80E-01	3.55E-01	3.55E-01
Average	4.21E-01	3.58E-01	3.58E-01	3.99E-02	2.23E-01	2.32E-01	2.32E-01
Standard Deviation	2.01E-01	2.40E-01	2.40E-01	1.10E-02	7.63E-02	7.15E-02	7.15E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	3.38E+00	1.47E+01	9.60E+00	8.36E+00	1.55E-01	1.69E+01	4.05E-01
Max	4.48E+00	1.91E+02	2.67E+01	3.12E+01	5.33E-01	5.20E+01	4.91E-01
Average	3.75E+00	8.28E+01	1.75E+01	1.54E+01	2.54E-01	2.64E+01	4.29E-01
Standard Deviation	3.20E-01	5.19E+01	3.55E+00	6.53E+00	8.54E-02	8.05E+00	2.39E-02

Table 3-47 RCA DEP2 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	8.19E-03	1.02E-02	2.35E-02	1.45E-02	1.33E-03	8.51E-03	2.42E-02
Max	3.54E-01	4.71E+01	1.59E-01	5.02E-02	1.82E-02	1.56E-02	1.85E-01
Average	3.08E-02	3.36E+00	5.05E-02	3.53E-02	1.24E-02	1.15E-02	5.22E-02
Standard Deviation	6.17E-02	8.83E+00	2.96E-02	8.31E-03	2.70E-03	1.68E-03	3.60E-02
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.52E-01	6.59E-02	6.59E-02	1.02E-02	6.20E-02	6.20E-02	6.20E-02
Max	9.71E-01	9.86E-01	9.86E-01	6.17E-02	5.40E-01	4.02E-01	4.02E-01
Average	3.85E-01	3.13E-01	3.13E-01	3.94E-02	2.31E-01	2.23E-01	2.23E-01
Standard Deviation	1.81E-01	2.26E-01	2.26E-01	1.12E-02	1.05E-01	8.62E-02	8.62E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.51E+00	1.48E+01	9.99E+00	8.49E+00	1.43E-01	1.48E+01	3.98E-01
Max	4.50E+00	2.16E+02	2.69E+01	3.11E+01	4.80E-01	5.02E+01	4.88E-01
Average	3.66E+00	8.32E+01	1.78E+01	1.59E+01	2.43E-01	2.58E+01	4.27E-01
Standard Deviation	5.23E-01	5.19E+01	3.73E+00	7.02E+00	8.00E-02	7.33E+00	2.44E-02

Table 3-48 RCA DEP3 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	7.77E-03	8.47E-03	2.17E-02	2.28E-02	8.54E-03	7.63E-03	1.95E-02
Max	1.14E+00	1.68E+02	3.83E-01	5.02E-02	2.27E-02	2.31E-02	4.23E-01
Average	6.30E-02	7.41E+00	5.50E-02	3.52E-02	1.26E-02	1.18E-02	5.70E-02
Standard Deviation	2.05E-01	3.02E+01	6.56E-02	6.89E-03	3.15E-03	2.93E-03	7.38E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.14E-01	6.16E-02	6.16E-02	1.35E-02	6.62E-02	9.70E-02	9.70E-02
Max	1.30E+00	6.05E-01	6.05E-01	6.45E-02	3.94E-01	3.94E-01	3.94E-01
Average	3.72E-01	2.32E-01	2.32E-01	4.02E-02	1.67E-01	1.89E-01	1.89E-01
Standard Deviation	2.32E-01	1.55E-01	1.55E-01	1.19E-02	8.01E-02	7.56E-02	7.56E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.48E+00	1.39E+01	9.62E+00	8.18E+00	1.48E-01	1.18E+01	3.88E-01
Max	4.38E+00	2.07E+02	2.68E+01	3.16E+01	7.38E-01	5.34E+01	4.66E-01
Average	3.47E+00	8.75E+01	1.82E+01	1.65E+01	2.78E-01	2.54E+01	4.25E-01
Standard Deviation	5.76E-01	5.40E+01	4.01E+00	6.60E+00	1.27E-01	8.53E+00	2.29E-02

Table 3-49 RCA DEP4 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	7.16E-03	8.04E-03	2.34E-02	2.41E-02	7.83E-03	7.95E-03	1.94E-02
Max	5.75E-01	4.90E+01	1.95E-01	5.39E-02	1.83E-02	1.80E-02	2.16E-01
Average	3.75E-02	2.61E+00	4.34E-02	3.64E-02	1.21E-02	1.17E-02	4.53E-02
Standard Deviation	1.11E-01	9.63E+00	3.34E-02	8.93E-03	2.74E-03	2.73E-03	3.81E-02
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	9.85E-02	6.59E-02	6.59E-02	2.48E-02	7.55E-02	6.92E-02	6.92E-02
Max	7.64E-01	8.27E-01	8.27E-01	6.23E-02	3.73E-01	3.73E-01	3.73E-01
Average	3.35E-01	2.56E-01	2.56E-01	4.12E-02	1.60E-01	1.74E-01	1.74E-01
Standard Deviation	1.88E-01	1.98E-01	1.98E-01	9.66E-03	6.29E-02	7.32E-02	7.32E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.50E+00	1.42E+01	9.84E+00	8.25E+00	1.21E-01	1.13E+01	3.92E-01
Max	4.46E+00	2.11E+02	2.63E+01	3.03E+01	2.67E+00	5.26E+01	4.72E-01
Average	3.58E+00	8.91E+01	1.76E+01	1.65E+01	3.37E-01	2.45E+01	4.25E-01
Standard Deviation	5.32E-01	5.87E+01	4.06E+00	7.18E+00	4.87E-01	8.82E+00	2.24E-02

Table 3-50 RCA DEP5 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	8.40E-03	1.10E-02	2.22E-02	2.40E-02	9.00E-03	7.80E-03	2.18E-02
Max	3.98E-01	2.66E+01	1.46E-01	5.95E-02	1.77E-02	1.63E-02	1.60E-01
Average	3.23E-02	1.70E+00	4.36E-02	4.10E-02	1.31E-02	1.21E-02	4.41E-02
Standard Deviation	8.00E-02	5.54E+00	2.51E-02	9.70E-03	2.46E-03	2.41E-03	2.80E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.53E-01	5.89E-02	5.89E-02	1.74E-02	6.07E-02	5.96E-02	5.96E-02
Max	8.23E-01	7.22E-01	7.22E-01	6.19E-02	4.11E-01	4.22E-01	4.22E-01
Average	3.20E-01	2.17E-01	2.17E-01	4.45E-02	1.89E-01	1.90E-01	1.90E-01
Standard Deviation	1.61E-01	1.66E-01	1.66E-01	1.20E-02	9.95E-02	9.43E-02	9.43E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.50E+00	1.50E+01	9.54E+00	8.70E+00	1.12E-01	1.26E+01	3.94E-01
Max	4.94E+00	2.24E+02	2.67E+01	3.31E+01	3.52E+00	5.09E+01	4.81E-01
Average	3.69E+00	9.41E+01	1.76E+01	1.74E+01	3.79E-01	2.60E+01	4.31E-01
Standard Deviation	6.35E-01	6.29E+01	4.28E+00	7.59E+00	6.91E-01	9.29E+00	2.52E-02

Table 3-51 RCA DEP6 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	8.40E-03	1.13E-02	2.64E-02	2.06E-02	7.50E-03	7.74E-03	2.30E-02
Max	2.44E-01	1.89E+00	4.82E-02	5.20E-02	1.74E-02	1.66E-02	5.06E-02
Average	2.47E-02	3.67E-01	3.74E-02	3.70E-02	1.29E-02	1.22E-02	3.63E-02
Standard Deviation	5.03E-02	5.78E-01	5.77E-03	8.70E-03	2.61E-03	2.38E-03	6.33E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.49E-01	7.93E-02	7.93E-02	2.71E-02	6.18E-02	6.58E-02	6.58E-02
Max	5.62E-01	6.83E-01	6.83E-01	6.18E-02	4.77E-01	5.30E-01	5.30E-01
Average	3.36E-01	2.49E-01	2.49E-01	4.19E-02	1.66E-01	1.87E-01	1.87E-01
Standard Deviation	1.25E-01	1.78E-01	1.78E-01	1.06E-02	1.05E-01	1.01E-01	1.01E-01
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.52E+00	1.49E+01	1.11E+01	8.80E+00	1.62E-01	1.70E+01	4.00E-01
Max	4.41E+00	2.21E+02	2.61E+01	3.06E+01	5.03E+00	4.63E+01	7.72E-01
Average	3.48E+00	1.03E+02	1.75E+01	1.74E+01	4.94E-01	2.56E+01	4.47E-01
Standard Deviation	5.65E-01	6.42E+01	4.06E+00	6.79E+00	1.04E+00	8.58E+00	7.70E-02

Table 3-52 RCA DEP7 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	7.58E-03	2.95E-02	2.56E-02	2.67E-02	9.48E-03	8.88E-03	2.57E-02
Max	1.93E-02	2.49E+00	5.19E-02	5.07E-02	1.49E-02	1.28E-02	5.33E-02
Average	1.44E-02	6.39E-01	3.77E-02	3.59E-02	1.19E-02	1.13E-02	3.69E-02
Standard Deviation	3.81E-03	8.49E-01	8.28E-03	7.59E-03	1.56E-03	1.35E-03	9.70E-03
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.91E-01	7.27E-02	7.27E-02	2.71E-02	1.14E-01	1.57E-01	1.57E-01
Max	6.73E-01	6.43E-01	6.43E-01	5.51E-02	2.85E-01	3.66E-01	3.66E-01
Average	3.82E-01	2.72E-01	2.72E-01	4.17E-02	2.16E-01	2.61E-01	2.61E-01
Standard Deviation	1.86E-01	2.00E-01	2.00E-01	8.86E-03	6.07E-02	5.60E-02	5.60E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.55E+00	5.08E+01	1.50E+01	1.03E+01	1.51E-01	1.71E+01	3.99E-01
Max	4.36E+00	1.75E+02	1.90E+01	1.92E+01	4.58E-01	4.06E+01	4.35E-01
Average	3.26E+00	9.06E+01	1.74E+01	1.45E+01	3.08E-01	2.86E+01	4.14E-01
Standard Deviation	6.62E-01	4.59E+01	1.37E+00	3.38E+00	1.18E-01	7.17E+00	1.25E-02

Table 3-53 RCA DEP8 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	9.11E-03	1.83E-02	2.38E-02	2.69E-02	9.62E-03	8.34E-03	2.47E-02
Max	2.14E-02	3.75E+00	7.52E-02	4.45E-02	1.56E-02	1.48E-02	8.31E-02
Average	1.43E-02	6.71E-01	3.90E-02	3.32E-02	1.17E-02	1.05E-02	3.71E-02
Standard Deviation	3.73E-03	1.22E+00	1.48E-02	5.67E-03	1.93E-03	2.03E-03	1.83E-02
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.74E-01	1.07E-01	1.07E-01	3.44E-02	6.71E-02	1.31E-01	1.31E-01
Max	6.50E-01	4.87E-01	4.87E-01	5.77E-02	4.52E-01	4.35E-01	4.35E-01
Average	3.45E-01	2.39E-01	2.39E-01	4.68E-02	2.20E-01	1.98E-01	1.98E-01
Standard Deviation	1.52E-01	1.13E-01	1.13E-01	8.61E-03	1.06E-01	9.74E-02	9.74E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.48E+00	5.33E+01	1.51E+01	1.11E+01	1.89E-01	2.12E+01	4.04E-01
Max	3.78E+00	1.68E+02	1.91E+01	1.98E+01	4.45E-01	4.48E+01	4.36E-01
Average	2.92E+00	7.58E+01	1.69E+01	1.54E+01	3.06E-01	3.02E+01	4.14E-01
Standard Deviation	5.02E-01	3.57E+01	1.49E+00	3.28E+00	9.20E-02	7.47E+00	1.17E-02

Table 3-54 RCA DEP9 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	1.13E-02	1.69E-02	2.48E-02	2.53E-02	1.03E-02	8.70E-03	2.59E-02
Max	7.39E-02	3.34E+00	5.95E-02	4.62E-02	1.48E-02	1.32E-02	5.71E-02
Average	2.61E-02	7.14E-01	3.53E-02	3.47E-02	1.21E-02	1.04E-02	3.50E-02
Standard Deviation	2.69E-02	1.47E+00	1.49E-02	8.15E-03	1.77E-03	1.72E-03	1.31E-02
Alpha (pCi/g)	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	1.32E-01	9.67E-02	9.67E-02	2.38E-02	6.66E-02	7.38E-02	7.38E-02
Max	5.36E-01	6.83E-01	6.83E-01	4.88E-02	2.92E-01	3.07E-01	3.07E-01
Average	2.83E-01	2.64E-01	2.64E-01	4.22E-02	1.65E-01	1.73E-01	1.73E-01
Standard Deviation	1.53E-01	2.38E-01	2.38E-01	1.06E-02	8.85E-02	8.45E-02	8.45E-02
Beta (pCi/g)	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.51E+00	6.10E+01	1.62E+01	1.49E+01	1.44E-01	2.10E+01	3.94E-01
Max	4.37E+00	1.70E+02	1.90E+01	1.86E+01	3.16E-01	4.03E+01	4.13E-01
Average	2.93E+00	9.02E+01	1.76E+01	1.66E+01	2.32E-01	2.99E+01	4.05E-01
Standard Deviation	8.06E-01	4.56E+01	1.33E+00	1.56E+00	7.18E-02	7.53E+00	7.31E-03

Table 3-55 RCA DEP10 Sample Statistics

Gamma (pCi/g)	Co-60	Cs-137	Eu-152	Eu-154	Mn-54	Nb-94	Sb-125
Min	6.26E-03	1.35E-02	2.25E-02	2.18E-02	7.41E-03	7.01E-03	2.27E-02
Max	1.39E-02	1.26E+00	3.99E-02	3.70E-02	1.22E-02	1.15E-02	4.08E-02
Average	1.00E-02	2.91E-01	2.96E-02	3.04E-02	1.04E-02	9.79E-03	2.89E-02
Standard Deviation	3.37E-03	5.44E-01	6.62E-03	5.73E-03	1.89E-03	1.86E-03	7.36E-03
	Am-241	Cm-243	Cm-244	Np-237	Pu-238	Pu-239	Pu-240
Min	2.09E-01	6.97E-02	6.97E-02	2.45E-02	7.11E-02	1.31E-01	1.31E-01
Max	4.35E-01	4.77E-01	4.77E-01	4.95E-02	2.95E-01	3.07E-01	3.07E-01
Average	2.84E-01	2.21E-01	2.21E-01	3.61E-02	1.91E-01	2.05E-01	2.05E-01
Standard Deviation	9.15E-02	1.55E-01	1.55E-01	1.05E-02	8.66E-02	7.67E-02	7.67E-02
	C-14	Fe-55	H-3	Ni-63	Sr-90	Pu-241	Tc-99
Min	2.43E+00	4.07E+01	1.42E+01	9.74E+00	1.83E-01	1.82E+01	4.01E-01
Max	4.31E+00	1.47E+02	1.82E+01	1.76E+01	5.06E-01	4.37E+01	4.19E-01
Average	2.90E+00	7.74E+01	1.68E+01	1.46E+01	2.67E-01	3.02E+01	4.06E-01
Standard Deviation	7.91E-01	4.23E+01	1.65E+00	2.91E+00	1.36E-01	9.28E+00	7.67E-03

3.3.4 Data Quality Comparisons

On-Site Duplicate Counts

The comparisons of the sample results for duplicate sample RCA-SOIL-25-B-D-QC-I is shown in Table 3-56. All comparisons were found acceptable. Agreement is assumed when results are less than the achieved MDC value.

Table 3-56 Duplicate Sample Analysis for RCA-SOIL-25-B-D-QC-I

QC Sample Assessment Form									
Sample Number	STANDARD					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-25-B-D-QC-I	Co-60	< MDC				< MDC			N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	5.02E-01	6.50E-02	1.31	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

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Radiological Findings

On-Site/Off-Site Laboratory Comparisons

The comparisons of sample results for the QC of the RCA samples are shown in Table 3-57 through Table 3-68. The comparisons were all found to be acceptable. Agreement is assumed when results are below the achieved MDC value.

Table 3-57 On-Site/Off-Site Laboratory Comparisons for RCA Asphalt Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-ASPH-035-B	Co-60	3.30E-01	6.86E-02	4.81	0.5 - 2	3.65E-01	2.18E-02	1.11	Y
	Cs-137	2.42E+00	1.63E-01	14.91	0.6 - 1.66	2.22E+00	3.63E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-ASPH-036-B	Co-60	< MDC				1.47E-01	1.33E-02		N/A
	Cs-137	3.17E-01	4.20E-02	7.56	0.5 - 2	4.61E-01	1.82E-02	1.45	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-ASPH-037-B	Co-60	8.46E-01	7.98E-02	10.61	0.6 - 1.66	1.05E+00	2.58E-02	1.24	Y
	Cs-137	1.35E+00	1.20E-01	11.27	0.6 - 1.66	1.74E+00	2.80E-02	1.29	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-ASPH-038-B	Co-60	< MDC				6.60E-02	8.21E-03		N/A
	Cs-137	9.43E-01	9.44E-02	9.99	0.6 - 1.66	8.47E-01	2.26E-02	0.90	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-ASPH-039-B	Co-60	< MDC				4.39E-02	7.40E-03		N/A
	Cs-137	< MDC				6.24E-02	6.33E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-ASPH-040-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-ASPH-041-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				5.27E-02	6.79E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-ASPH-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Table 3-58 On-Site/Off-Site Laboratory Comparisons for RCA Soil Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-021-B-QC-I	Co-60	< MDC				1.03E-01	1.15E-02		N/A
	Cs-137	9.89E-01	9.85E-02	10.04	0.6 - 1.66	1.22E+00	2.74E-02	1.23	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-022-B-QC-I	Co-60	1.32E+00	9.06E-02	14.55	0.6 - 1.66	1.49E+00	3.42E-02	1.13	Y
	Cs-137	2.93E+00	1.78E-01	16.45	0.75 - 1.33	3.36E+00	4.13E-02	1.15	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-023-B-QC-I	Co-60	3.62E-01	7.32E-02	4.94	0.5 - 2	4.58E-01	2.14E-02	1.27	Y
	Cs-137	9.20E-01	9.61E-02	9.58	0.6 - 1.66	1.11E+00	2.74E-02	1.21	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-024-B-QC-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-025-B-D-QC-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-026-B-QC-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-027-B	Co-60	< MDC				3.55E-02	5.61E-03		N/A
	Cs-137	< MDC				2.81E-02	5.46E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-028-B	Co-60	< MDC				1.11E-01	1.11E-02		N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-029-B	Co-60	< MDC				4.36E-02	9.95E-03		N/A
	Cs-137	< MDC				5.44E-02	6.89E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-030-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-031-B	Co-60	< MDC				5.99E-02	6.99E-03		N/A
	Cs-137	4.99E-01	6.19E-02	8.07	0.6 - 1.66	5.19E-01	1.59E-02	1.04	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-032-B	Co-60	< MDC				5.14E-02	6.43E-03		N/A
	Cs-137	6.39E-01	8.20E-02	7.80	0.5 - 2	7.65E-01	2.14E-02	1.20	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-033-B	Co-60	< MDC				4.90E-02	6.58E-03		N/A
	Cs-137	4.26E+00	2.16E-01	19.75	0.75 - 1.33	4.45E+00	4.42E-02	1.04	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-034-B	Co-60	2.80E-01	4.38E-02	6.39	0.5 - 2	3.17E-01	1.60E-02	1.13	Y
	Cs-137	9.85E-01	9.92E-02	9.93	0.6 - 1.66	9.57E-01	2.54E-02	0.97	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-035-B	Co-60	< MDC				1.97E-01	1.77E-02		N/A
	Cs-137	2.82E+00	1.64E-01	17.21	0.75 - 1.33	2.98E+00	4.58E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-036-B	Co-60	< MDC				8.25E-02	1.07E-02		N/A
	Cs-137	< MDC				1.90E-01	1.36E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-037-B	Co-60	< MDC				7.90E-02	8.42E-03		N/A
	Cs-137	2.88E-01	5.14E-02	5.61	0.5 - 2	3.10E-01	1.58E-02	1.08	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-038-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.21E-02	9.49E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-039-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-040-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.07E-02	9.03E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-041-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.40E-01	1.72E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-043-B	Co-60	< MDC				1.11E-01	9.03E-03		N/A
	Cs-137	5.29E+00	2.60E-01	20.32	0.75 - 1.33	5.41E+00	4.52E-02	1.02	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-044-B-I	Co-60	1.42E-01	4.36E-02	3.25	0.4 - 2.5	2.03E-01	1.32E-02	1.43	Y
	Cs-137	1.18E+00	1.02E-01	11.51	0.6 - 1.66	1.23E+00	2.52E-02	1.05	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-045-B-I	Co-60	< MDC				3.94E-02	6.43E-03		N/A
	Cs-137	8.73E-01	8.86E-02	9.86	0.6 - 1.66	9.10E-01	2.33E-02	1.04	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-046-B-I	Co-60	< MDC				1.59E-02	6.28E-03		N/A
	Cs-137	2.34E+00	1.15E-01	20.32	0.75 - 1.33	2.32E+00	3.19E-02	0.99	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-047-B-I	Co-60	< MDC				6.97E-02	1.01E-02		N/A
	Cs-137	1.65E+00	1.23E-01	13.39	0.6 - 1.66	1.75E+00	3.11E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-048-B-I	Co-60	< MDC				6.41E-02	9.80E-03		N/A
	Cs-137	7.22E-01	8.50E-02	8.49	0.6 - 1.66	8.32E-01	2.44E-02	1.15	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-049-B-I	Co-60	1.54E-01	3.90E-02	3.96	0.4 - 2.5	2.18E-01	1.56E-02	1.41	Y
	Cs-137	9.52E+00	3.59E-01	26.52	0.75 - 1.33	1.18E+01	8.67E-02	1.24	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-050-B-I	Co-60	< MDC				7.95E-02	9.08E-03		N/A
	Cs-137	6.74E-01	8.09E-02	8.33	0.6 - 1.66	8.02E-01	2.31E-02	1.19	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-051-B-I	Co-60	< MDC				9.92E-02	9.90E-03		N/A
	Cs-137	1.29E+00	1.01E-01	12.82	0.6 - 1.66	1.36E+00	2.66E-02	1.05	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-052-B-I	Co-60	1.02E+00	9.27E-02	11.01	0.6 - 1.66	9.74E-01	3.30E-02	0.95	Y
	Cs-137	1.83E+00	1.52E-01	12.07	0.6 - 1.66	2.23E+00	4.19E-02	1.22	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-053-B-I	Co-60	2.46E-01	5.17E-02	4.75	0.5 - 2	2.85E-01	1.71E-02	1.16	Y
	Cs-137	1.56E+00	1.17E-01	13.38	0.6 - 1.66	1.74E+00	3.45E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-054-B-I	Co-60	< MDC				2.84E-02	5.77E-03		N/A
	Cs-137	4.64E-01	6.35E-02	7.31	0.5 - 2	3.25E-01	1.50E-02	0.70	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-055-B-I	Co-60	< MDC				3.51E-02	6.94E-03		N/A
	Cs-137	< MDC				3.51E-01	1.45E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-056-B-I	Co-60	< MDC				2.29E-01	1.32E-02		N/A
	Cs-137	2.38E+00	1.49E-01	15.98	0.6 - 1.66	2.62E+00	3.59E-02	1.10	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-057-B-I	Co-60	< MDC				9.60E-02	1.23E-02		N/A
	Cs-137	4.14E+00	2.46E-01	16.83	0.75 - 1.33	4.89E+00	5.82E-02	1.18	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-058-B-I	Co-60	< MDC				1.37E-01	1.25E-02		N/A
	Cs-137	1.29E+00	1.29E-01	10.06	0.6 - 1.66	1.55E+00	3.30E-02	1.20	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-059-B-I	Co-60	< MDC				8.19E-02	1.22E-02		N/A
	Cs-137	1.77E+00	1.34E-01	13.21	0.6 - 1.66	1.87E+00	3.31E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-SOIL-060-B-I	Co-60	< MDC				5.05E-02	6.22E-03		N/A
	Cs-137	5.66E-01	7.56E-02	7.48	0.5 - 2	5.89E-01	1.50E-02	1.04	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-SOIL-061-B-I	Co-60	< MDC				1.39E-01	1.23E-02		N/A
	Cs-137	5.33E-01	7.28E-02	7.32	0.5 - 2	4.66E-01	1.79E-02	0.87	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Table 3-59 On-Site/Off-Site Laboratory Comparisons for RCA DEP1 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-027-B	Co-60	< MDC				1.03E-01	1.15E-02		N/A
	Cs-137	9.89E-01	9.85E-02	10.04	0.6 - 1.66	1.22E+00	2.74E-02	1.23	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-028-B	Co-60	1.32E+00	9.06E-02	14.55	0.6 - 1.66	1.49E+00	3.42E-02	1.13	Y
	Cs-137	2.93E+00	1.78E-01	16.45	0.75 - 1.33	3.36E+00	4.13E-02	1.15	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-029-B	Co-60	3.62E-01	7.32E-02	4.94	0.5 - 2	4.58E-01	2.14E-02	1.27	Y
	Cs-137	9.20E-01	9.61E-02	9.58	0.6 - 1.66	1.11E+00	2.74E-02	1.21	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-030-B	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-031-B	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-032-B	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-034-B	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-035-B	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-036-B	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-037-B	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-038-B	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-039-B	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-040-B	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-041-B	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-042-B	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-043-B	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-044-B-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-045-B-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-046-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-047-B-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-048-B-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-049-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-050-B-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-051-B-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-053-B-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-054-B-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-055-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-056-B-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-057-B-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-058-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.70E-01	4.85E-02	5.57	0.5 - 2	3.00E-01	1.36E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-059-B-I	Co-60	< MDC				2.33E-02	8.11E-03		N/A
	Cs-137	3.83E-01	6.19E-02	6.19	0.5 - 2	3.51E-01	1.30E-02	0.92	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP1-060-B-I	Co-60	3.72E+00	1.75E-01	21.27	0.75 - 1.33	4.57E+00	6.33E-02	1.23	Y
	Cs-137	6.97E+00	3.34E-01	20.89	0.75 - 1.33	7.89E+00	7.09E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP1-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-60 On-Site/Off-Site Laboratory Comparisons for RCA DEP2 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-027-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-028-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-029-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.34E-02	4.07E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-030-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-031-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.22E-02	5.20E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-032-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.88E-02	6.28E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-034-B	Co-60	< MDC				9.42E-02	7.70E-03		N/A
	Cs-137	4.68E+01	1.55E+00	30.18	0.75 - 1.33	4.71E+01	1.34E-01	1.01	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-035-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.92E-01	1.61E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-036-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.46E-02	7.96E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-037-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-038-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-039-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.02E-02	3.77E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-040-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				6.57E-02	8.21E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-041-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.41E-02	3.53E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-043-B	Co-60	4.29E-01	5.59E-02	7.68	0.5 - 2	3.54E-01	1.66E-02	0.83	Y
	Cs-137	2.07E+00	1.46E-01	14.14	0.6 - 1.66	2.04E+00	2.96E-02	0.99	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-044-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	5.95E+00	2.72E-01	21.90	0.75 - 1.33	6.22E+00	5.15E-02	1.05	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-045-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.20E+00	1.48E-01	14.81	0.6 - 1.66	2.52E+00	3.57E-02	1.15	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-046-B-I	Co-60	< MDC				1.20E-01	1.15E-02		N/A
	Cs-137	1.88E+01	6.96E-01	27.06	0.75 - 1.33	2.14E+01	1.10E-01	1.14	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-047-B-I	Co-60	< MDC				1.33E-02	5.46E-03		N/A
	Cs-137	3.97E+00	2.15E-01	18.49	0.75 - 1.33	4.39E+00	4.81E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-048-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.14E+00	1.02E-01	11.19	0.6 - 1.66	1.56E+00	2.79E-02	1.37	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-049-B-I	Co-60	< MDC				5.38E-02	7.45E-03		N/A
	Cs-137	1.18E+01	4.74E-01	24.93	0.75 - 1.33	1.31E+01	8.16E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-050-B-I	Co-60	< MDC				2.30E-02	5.15E-03		N/A
	Cs-137	2.48E+00	1.59E-01	15.65	0.6 - 1.66	2.59E+00	3.79E-02	1.04	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	7.74E-01	8.22E-02	9.42	0.6 - 1.66	8.70E-01	2.22E-02	1.12	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	5.08E-01	8.04E-02	6.32	0.5 - 2	5.67E-01	2.03E-02	1.12	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.54E-01	1.11E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-054-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.24E+00	1.55E-01	14.49	0.6 - 1.66	2.26E+00	3.07E-02	1.01	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-055-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.20E+00	1.03E-01	11.66	0.6 - 1.66	1.32E+00	2.77E-02	1.10	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-056-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	3.04E+00	1.79E-01	16.97	0.75 - 1.33	3.25E+00	3.96E-02	1.07	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-057-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.71E+00	1.84E-01	14.70	0.6 - 1.66	3.06E+00	3.89E-02	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-058-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	6.57E-01	8.91E-02	7.38	0.5 - 2	1.06E+00	2.83E-02	1.61	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.24E-01	1.23E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP2-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				8.33E-02	1.11E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP2-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.33E-01	1.03E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-61 On-Site/Off-Site Laboratory Comparisons for RCA DEP3 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)				COMPARISON				
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-027-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-028-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-029-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-030-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-031-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.29E-02	5.56E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-032-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				5.90E-02	9.90E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-034-B	Co-60	< MDC				1.67E-02	5.71E-03		N/A
	Cs-137	1.52E+01	5.67E-01	26.82	0.75 - 1.33	1.49E+01	8.06E-02	0.98	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-035-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.33E-01	9.64E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-036-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.70E-01	1.25E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-037-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.88E-02	4.36E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-038-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-039-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.49E-02	6.73E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-040-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.48E-01	1.26E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-041-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-043-B	Co-60	9.12E-01	7.38E-02	12.36	0.6 - 1.66	1.14E+00	2.98E-02	1.25	Y
	Cs-137	1.24E+01	4.85E-01	25.62	0.75 - 1.33	1.32E+01	7.86E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-044-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.50E+00	1.06E-01	14.12	0.6 - 1.66	1.46E+00	2.48E-02	0.97	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-047-B-I	Co-60	< MDC				8.65E-02	9.34E-03		N/A
	Cs-137	1.21E+01	4.71E-01	25.71	0.75 - 1.33	1.31E+01	7.50E-02	1.08	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-049-B-I	Co-60	< MDC				1.14E-01	1.20E-02		N/A
	Cs-137	1.27E+01	4.91E-01	25.88	0.75 - 1.33	1.34E+01	7.81E-02	1.05	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-050-B-I	Co-60	1.78E-01	2.53E-02	7.05	0.5 - 2	2.54E-01	1.55E-02	1.42	Y
	Cs-137	1.54E+02	4.75E+00	32.42	0.75 - 1.33	1.68E+02	2.88E-01	1.09	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	7.42E-01	8.31E-02	8.93	0.6 - 1.66	8.43E-01	2.17E-02	1.14	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	4.47E-01	6.11E-02	7.31	0.5 - 2	5.47E-01	1.43E-02	1.22	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.67E-01	9.95E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-054-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	9.81E-01	8.95E-02	10.97	0.6 - 1.66	1.05E+00	2.16E-02	1.07	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-055-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.20E-01	1.36E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-056-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	8.97E-01	8.33E-02	10.77	0.6 - 1.66	9.95E-01	2.23E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-057-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.34E-01	1.47E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-058-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.69E-01	1.21E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.97E-01	1.48E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP3-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				7.36E-02	9.54E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP3-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				8.46E-02	8.32E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions: Standard and Comparison results are acceptable.						Resolution Range for Sample Recount Comparison¹:			
						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-62 On-Site/Off-Site Laboratory Comparisons for RCA DEP4 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)				COMPARISON				
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-027-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-028-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-029-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-030-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-031-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.75E-02	3.86E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-032-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.04E-02	4.90E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-034-B	Co-60	< MDC				< MDC			N/A
	Cs-137	3.08E+00	1.83E-01	16.86	0.75 - 1.33	2.99E+00	4.04E-02	0.97	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-035-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.11E-01	8.62E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-036-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				7.03E-02	1.13E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-037-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.15E-02	4.77E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-038-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-039-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-040-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				7.14E-02	1.13E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-041-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-043-B	Co-60	5.13E-01	5.31E-02	9.66	0.6 - 1.66	5.75E-01	2.05E-02	1.12	Y
	Cs-137	8.99E+00	3.70E-01	24.31	0.75 - 1.33	8.82E+00	6.48E-02	0.98	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-044-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.14E+00	9.17E-02	12.46	0.6 - 1.66	1.28E+00	2.29E-02	1.12	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-047-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.30E+00	1.04E-01	12.54	0.6 - 1.66	1.40E+00	2.64E-02	1.08	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-049-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.86E+00	1.39E-01	13.32	0.6 - 1.66	2.05E+00	3.45E-02	1.10	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-050-B-I	Co-60	< MDC				9.15E-02	1.11E-02		N/A
	Cs-137	4.42E+01	1.46E+00	30.20	0.75 - 1.33	4.90E+01	1.51E-01	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	6.84E-01	8.12E-02	8.42	0.6 - 1.66	9.47E-01	2.45E-02	1.39	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.45E-02	5.71E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.17E-01	1.01E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	7.47E-01	7.74E-02	9.65	0.6 - 1.66	6.71E-01	1.74E-02	0.90	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP4-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				6.35E-02	7.24E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP4-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				4.93E-02	9.69E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Table 3-63 On-Site/Off-Site Laboratory Comparisons for RCA DEP5 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)				COMPARISON				
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-028-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-029-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-030-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-031-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.50E-02	4.91E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-032-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				4.65E-02	7.50E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-034-B	Co-60	< MDC				< MDC			N/A
	Cs-137	2.48E+00	1.60E-01	15.47	0.6 - 1.66	2.62E+00	3.65E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-035-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				7.64E-02	9.34E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-036-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				4.62E-02	8.57E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-037-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.19E-02	4.24E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-038-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-039-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-041-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-043-B	Co-60	3.56E-01	4.98E-02	7.14	0.5 - 2	3.98E-01	1.93E-02	1.12	Y
	Cs-137	4.63E+00	2.36E-01	19.65	0.75 - 1.33	4.84E+00	4.86E-02	1.05	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-047-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.37E+00	1.09E-01	12.62	0.6 - 1.66	1.45E+00	2.64E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-049-B-I	Co-60	< MDC				2.33E-02	5.82E-03		N/A
	Cs-137	9.13E-01	9.31E-02	9.81	0.6 - 1.66	1.22E+00	2.74E-02	1.34	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-050-B-I	Co-60	< MDC				4.03E-02	8.67E-03		N/A
	Cs-137	2.36E+01	8.36E-01	28.27	0.75 - 1.33	2.66E+01	1.12E-01	1.13	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	7.68E-01	8.68E-02	8.84	0.6 - 1.66	7.12E-01	1.87E-02	0.93	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.12E-02	9.39E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	3.17E-01	6.39E-02	4.96	0.5 - 2	3.40E-01	1.63E-02	1.07	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	8.33E-01	8.12E-02	10.27	0.6 - 1.66	7.76E-01	1.97E-02	0.93	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP5-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.61E-01	7.45E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP5-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.06E-02	4.56E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Table 3-64 On-Site/Off-Site Laboratory Comparisons for RCA DEP6 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)				COMPARISON				
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-028-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-029-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-031-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-032-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.73E-02	7.04E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-034-B	Co-60	< MDC				< MDC			N/A
	Cs-137	1.61E+00	1.25E-01	12.89	0.6 - 1.66	1.66E+00	2.46E-02	1.03	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-035-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.33E-02	8.62E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-036-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.36E-02	8.83E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-037-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-038-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-039-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				4.68E-02	1.14E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-042-B	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				9.54E-02	1.18E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-043-B	Co-60	< MDC				2.44E-01	1.28E-02		N/A
	Cs-137	1.09E+00	9.87E-02	11.07	0.6 - 1.66	9.54E-01	1.94E-02	0.87	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-047-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	7.13E-01	7.78E-02	9.17	0.6 - 1.66	7.45E-01	2.04E-02	1.04	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-049-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.05E+00	9.60E-02	10.93	0.6 - 1.66	1.11E+00	2.02E-02	1.06	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-050-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.64E+00	1.30E-01	12.63	0.6 - 1.66	1.89E+00	3.41E-02	1.15	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				6.50E-02	9.74E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				< MDC			N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	7.02E-01	8.28E-02	8.48	0.6 - 1.66	6.53E-01	2.06E-02	0.93	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP6-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				9.33E-02	8.11E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				9.63E-02	8.16E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP6-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				9.77E-02	9.44E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Comments/Corrective Actions:	Resolution Range for Sample Recount Comparison ¹ :			
	Resolution (d)		Agreement Range (e)	
	Min	Max	Min	Max
	0	< 4	0.4	2.5
	4	< 8	0.5	2
	8	< 16	0.6	1.66
	16	< 51	0.75	1.33
	51	200	0.8	1.25
Standard and Comparison results are acceptable.	> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-65 On-Site/Off-Site Laboratory Comparisons for RCA DEP7 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP7-047-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	5.92E-01	7.16E-02	8.27	0.6 - 1.66	6.54E-01	1.80E-02	1.10	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP7-049-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	1.47E+00	1.16E-01	12.75	0.6 - 1.66	1.57E+00	2.89E-02	1.07	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP7-050-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	2.10E+00	1.49E-01	14.06	0.6 - 1.66	2.49E+00	3.19E-02	1.19	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP7-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				5.27E-02	8.67E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP7-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.95E-02	5.66E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP7-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	4.27E-01	6.81E-02	6.27	0.5 - 2	4.32E-01	1.78E-02	1.01	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

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Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP7-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				4.86E-02	5.36E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP7-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				7.67E-02	1.18E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP7-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	3.66E-01	5.79E-02	6.31	0.5 - 2	4.01E-01	1.63E-02	1.10	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Comments/Corrective Actions:	Resolution Range for Sample Recount Comparison ¹ :			
	Resolution (d)		Agreement Range (e)	
	Min	Max	Min	Max
	0	< 4	0.4	2.5
	4	< 8	0.5	2
	8	< 16	0.6	1.66
	16	< 51	0.75	1.33
	51	200	0.8	1.25
Standard and Comparison results are acceptable.	> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-66 On-Site/Off-Site Laboratory Comparisons for RCA DEP8 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP8-047-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	4.70E-01	6.07E-02	7.75	0.5 - 2	6.35E-01	1.88E-02	1.35	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP8-049-B-I	Co-60	< MDC				1.37E-02	4.70E-03		N/A
	Cs-137	1.20E+00	1.02E-01	11.76	0.6 - 1.66	1.24E+00	2.53E-02	1.03	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP8-050-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	3.20E+00	1.94E-01	16.46	0.75 - 1.33	3.75E+00	4.65E-02	1.17	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP8-051-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				3.99E-02	6.89E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP8-052-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.83E-02	6.22E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP8-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.35E-01	8.72E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP8-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				8.00E-02	8.32E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP8-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				7.77E-02	8.78E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP8-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				6.50E-02	9.54E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Comments/Corrective Actions:	Resolution Range for Sample Recount Comparison ¹ :			
	Resolution (d)		Agreement Range (e)	
	Min	Max	Min	Max
	0	< 4	0.4	2.5
	4	< 8	0.5	2
	8	< 16	0.6	1.66
	16	< 51	0.75	1.33
	51	200	0.8	1.25
Standard and Comparison results are acceptable.	> 200		0.85	1.18

Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525.

Table 3-67 On-Site/Off-Site Laboratory Comparisons for RCA DEP9 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP9-049-B-I	Co-60	< MDC				7.39E-02	1.05E-02		N/A
	Cs-137	2.10E+00	1.54E-01	13.61	0.6 - 1.66	3.34E+00	3.88E-02	1.59	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP9-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				9.05E-02	8.83E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP9-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				6.19E-02	7.45E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP9-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				6.26E-02	1.01E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP9-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.69E-02	5.92E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

Table 3-68 On-Site/Off-Site Laboratory Comparisons for RCA DEP10 Samples

QC Sample Assessment Form									
Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP10-049-B-I	Co-60	< MDC				1.26E-02	5.10E-03		N/A
	Cs-137	1.14E+00	9.09E-02	12.53	0.6 - 1.66	1.26E+00	2.26E-02	1.11	Y
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP10-053-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.33E-01	1.07E-02		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP10-059-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.87E-02	7.55E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A

SECTION THREE

Radiological Findings

Sample Number	STANDARD (OnSite)					COMPARISON			
	Radionuclide Chosen (a)	Standard Activity (b)	1 σ Uncertainty (c)	Resolution (d)=(b)/(c)	Agreement Range (e)	Comparison Activity (f)	Comparison Error (g)	Comparison Ratio (h)=(f)/(b)	Acceptable (Y/N)
RCA-DEP10-060-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				2.13E-02	4.72E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
RCA-DEP10-061-B-I	Co-60	< MDC				< MDC			N/A
	Cs-137	< MDC				1.35E-02	3.57E-03		N/A
	Eu-152	< MDC				< MDC			N/A
	Eu-154	< MDC				< MDC			N/A
	Mn-54	< MDC				< MDC			N/A
	Nb-94	< MDC				< MDC			N/A
	Sb-125	< MDC				< MDC			N/A
Comments/Corrective Actions:						Resolution Range for Sample Recount Comparison¹:			
Note 1: Information source; NRC Inspection Manual, Inspection Procedure 84525. Standard and Comparison results are acceptable.						Resolution (d)		Agreement Range (e)	
						Min	Max	Min	Max
						0	< 4	0.4	2.5
						4	< 8	0.5	2
						8	< 16	0.6	1.66
						16	< 51	0.75	1.33
						51	200	0.8	1.25
						> 200		0.85	1.18

3.3.5 Survey Plan Deviation(s)

None.

3.3.6 Survey Area Investigations

While reviewing the Easy-to-Detect gamma results of the RWST area samples, it was determined that additional samples should be taken to identify the extent of the subsurface contamination in the vicinity. Eighteen additional sample locations (RCA-BBBB-044-B-I through RCA-BBBB-061-B-I) were determined using site hydrology information to determine the direction the contamination may have traveled. The additional samples were taken to the maximum depth that the split spoon sampling equipment would allow, unless an obstruction or high amounts of liquid prevented sampling to the maximum available depth.

3.3.7 Survey Area Conclusions

The following conclusions were reached for the RCA survey area:

- The collected data confirms that the RCA is MARSSIM Class 1.
- The Cs-137 and Co-60 concentrations in soil samples from locations 4 and 15 indicate that excavation or remediation is required to meet site release criteria.

4 CONCLUSIONS

NOCA-2

- Excavation of the contaminated soil relocated in 1982 under the North Parking is not likely, as indicated by the low Cs-137 concentration in the deep soil sample (i.e., a measured concentration of less than 10% of the Cs-137 AC). The measured Cs-137 and Co-60 concentrations in NOCA-2 samples indicate that the area meets MARSSIM Class 3 criteria.
- MARSSIM Class 1 designation is appropriate for the NOCA-2 survey area: basis (waste storage location).

NPA

- The Cs-137 and Co-60 concentrations found in NPA samples do not require excavation or remediation to meet site release criteria at this time. The current radiological status may change as active decommissioning of the site commences.
- Radiological status changes may warrant additional site characterization collection to support FSS planning.
- Additional characterization in yard areas, including walk-over gamma scans and soil sampling, should be considered when waste containers are moved.

RCA

- Collected data confirms that the RCA is MARSSIM Class 1.
- The Cs-137 and Co-60 concentrations in soil samples from locations 4 and 15 indicate that excavation or remediation is required to meet site release criteria.