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United States Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261/LICENSE NO. DPR-23

RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT - 2009

Ladies and Gentlemen:

In accordance with the H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2, Technical Specifications, Section 5.6.2, "Annual Radiological Environmental Operating Report," enclosed is the Radiological Environmental Operating Report for the period January 1, 2009, through December 31, 2009.

If you have any questions concerning this report, please contact me at (843) 857-1626.

Sincerely,

A handwritten signature in cursive script that reads "C A Castell".

C. A. Castell  
Supervisor - Licensing/Regulatory Programs

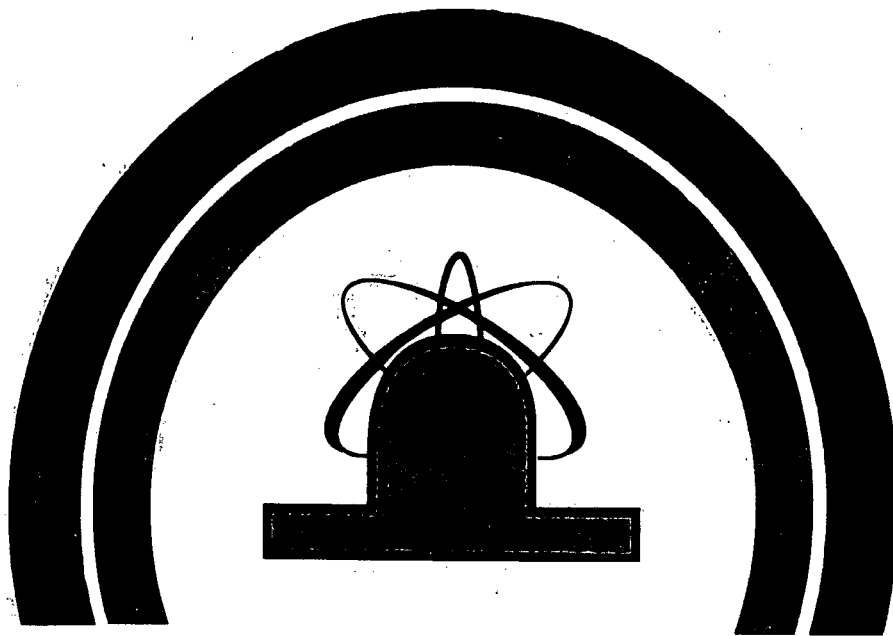
RAC/rac

Enclosure

c: L. A. Reyes, NRC, Region II  
T. Orf, NRC, NRR (w/o Enclosure)  
NRC Resident Inspector

Handwritten initials "JES" above the letters "NRC".

**RADIOLOGICAL  
ENVIRONMENTAL OPERATING  
REPORT  
2009**



**H. B. ROBINSON STEAM ELECTRIC PLANT,  
UNIT NO. 2**

**CAROLINA POWER & LIGHT COMPANY**

**ALSO KNOWN AS**

**PROGRESS ENERGY CAROLINAS, INC.**

**RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT**

**FOR THE**

**H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2**

**FACILITY OPERATING LICENSE NO. DPR-23**

**DOCKET NO. 50-261**

**JANUARY 1 THROUGH DECEMBER 31, 2009**

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# EXECUTIVE SUMMARY

The H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP) is operated by Carolina Power & Light Company; also known as Progress Energy Carolinas, Inc.; under a license granted by the Nuclear Regulatory Commission (NRC). The HBRSEP Technical Specifications and the HBRSEP Off-Site Dose Calculation Manual establish the requirements of the Radiological Environmental Monitoring Program. This report provides the results of the Radiological Environmental Monitoring program from January 1, 2009 through December 31, 2009.

The Radiological Environmental Monitoring program was established in 1973. Radiation and radioactivity in various environmental media have been monitored for more than 35 years. Monitoring is also provided for control locations that would not be impacted by operation of the HBRSEP. Using these control locations and data collected prior to operation allows comparison of data collected at locations near HBRSEP that could potentially be impacted by its operation. The pre-operational monitoring program began in December 1968.

Monitoring results for environmental media are summarized as follows:

- Air-monitoring results are similar or less than the concentrations of radioactivity from pre-operation monitoring. These observations are also consistent with past operational data.
- Milk monitoring has not been conducted due to the unavailability of milk samples in the area since July 17, 1998 when the dairy ceased operation. Broadleaf sampling is conducted, since no milk animals are located within five miles of the plant in any sector. Milk sampling will resume if a new sample location is identified.
- Terrestrial vegetation includes broadleaf vegetation and food products. Results indicate detectable concentrations of Cs-137 in both the indicator and control locations for broadleaf vegetation. No other gamma activity was detected in any samples, except for K-40 and other naturally occurring gamma activity. Sampling of miscellaneous food products (non-leafy) in the vicinity of the site is conducted when leafy vegetables are not being grown. Refer to the Interpretations and Conclusions Section / Food Products.
- Aquatic organism monitoring includes fish and aquatic vegetation. Results indicate detectable concentrations of Cs-137 in both indicator and control locations for fish. No other gamma activity was detected in any fish sample, except for K-40 and other naturally occurring gamma activity. The aquatic vegetation indicator samples indicated the presence of Co-58 and Cs-137 activity in one sample. No other gamma activity was detected in any aquatic vegetation sample, except for K-40 and other naturally occurring gamma activity. Refer to the Interpretations and Conclusions Section / Aquatic Vegetation.
- Surface water results indicate that the surface water from Lake Robinson shows the presence of tritium, which is attributed to plant operation. Refer to the Interpretations and Conclusions Section / Surface Water.

- External radiation dose showed no measurable change from pre-operational data.
- Sediment monitoring includes both shoreline and bottom sediment. During 2009, bottom sediment results indicated the presence of Cs-137 and Co-60. No other gamma activity was detected in any sediment samples, except for naturally occurring gamma activity. Refer to the Interpretations and Conclusions Section / Shoreline Sediment and Bottom Sediment.

The continued operation of HBRSEP has not significantly contributed radiation or the presence of radioactivity in the environmental media monitored. The measured concentrations of radioactivity are well within applicable regulatory limits.

# **RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM**

## **PURPOSE AND REQUIREMENTS FOR THE RADIOLOGICAL MONITORING PROGRAM**

Although the operation of a nuclear generating station results in the raising of background radiation only a small amount, it is important to measure these emissions of radioactivity and radiation to assess their impact on the surrounding populations. The purpose of the radiological monitoring program is to measure accumulation of radioactivity in the environment, to determine whether this radioactivity is the result of operation of the HBRSEP, and to assess the potential dose to the off-site population based on the cumulative measurements of radioactivity of plant origin. Radiological environmental monitoring programs provide an additional verification of the containment and radiological controls of nuclear generating stations.

The radiological monitoring program was established in 1973 and has continued to collect and analyze samples since that time.

Requirements are established for the radiological monitoring program in the Technical Specifications and the Off-Site Dose Calculation Manual (ODCM).

Additional guidance regarding the radiological monitoring program may be found in the following:

- NRC Regulatory Guide 1.109, Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I, Revision 1, October 1977
- NRC Regulatory Guide 4.13, Performance, Testing, and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications, Revision 1, July 1977
- NRC Regulatory Guide 4.15, Quality Assurance for Radiological Monitoring Programs (Normal Operation) - Effluent Streams and the Environment, Revision 1, February 1979
- NRC Regulatory Guide 4.1, Programs for Monitoring Radioactivity in the Environs of Nuclear Power Plants, Revision 1, April 1975
- NRC Regulatory Guide 4.8, Environmental Technical Specifications for Nuclear Power Plants, For comment, December 1975
- Radiological Assessment Branch Technical Position, An Acceptable Radiological Environmental Monitoring Program, Revision 1, November 1979

## General Site Description

The HBRSEP (Unit No. 2) consists of a pressurized water reactor with a design rating of 800 MWe (Megawatts electric). The site is shared with a pulverized coal unit (Unit No.1), which established commercial operation in 1960. Commercial production was initiated by Unit No. 2 on March 7, 1971. The HBRSEP is located in Darlington County, South Carolina. The site is along state route 151 approximately five (5) miles northwest of Hartsville, South Carolina and is displayed on the map of northeastern South Carolina (Figure 1). The site is also approximately twenty five (25) miles northwest of Florence, South Carolina.

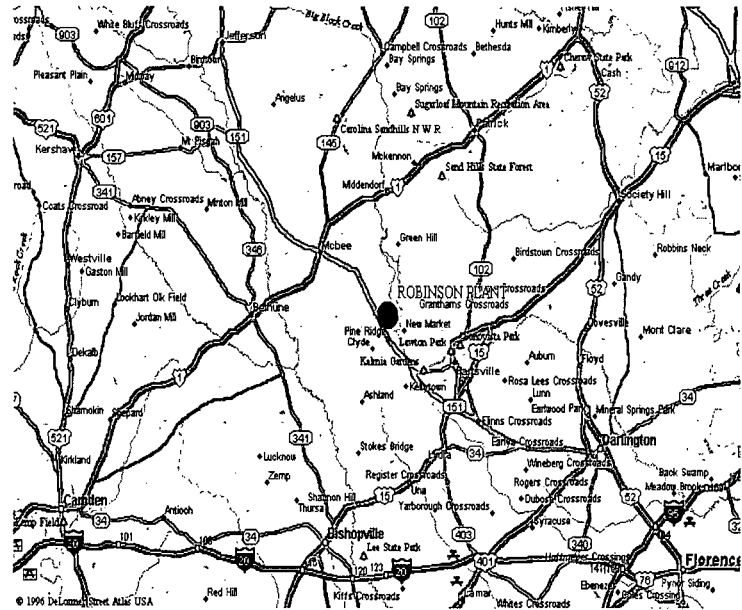


Figure 1: Location of HBRSEP

Lake Robinson is adjacent to the plant and is the source of cooling water. The lake was impounded during the construction of Robinson Unit No.1 (coal fired). The lake is fed by Black Creek and is approximately 2,250 acres in area. The plant intake is at the southern portion of the lake near the dam. The discharge is to a canal which conveys the cooling water to a point 4.2 miles north of the plant, where it returns to Lake Robinson.

The local economy supports primarily industrial and agricultural contributions. Fishing, boating, and swimming are popular activities on Lake Robinson and other nearby lakes. These activities contribute to the radiological pathways by consumption of fish and immersion related to swimming and boating. Consumption of milk and food products contributes to the ingestion pathway. No milk animals are located within five miles of the plant in any sector at this time, so broadleaf sampling is conducted to simulate the milk ingestion pathway.

## **RADIOLOGICAL MONITORING PROGRAM QUALITY ASSURANCE**

A required component of the environmental radiological monitoring program is the Quality Assurance Program. The standards for the Quality Assurance Program are established in the NRC Regulatory Guide (R.G.) 4.15, "Quality Assurance for Radiological Monitoring Programs. According to R.G. 4.15, the purpose of the Quality Assurance Program is to "(1) to identify deficiencies in the sampling and measurement processes to those responsible for these operations so that corrective action can be taken, and (2) to obtain some measure of confidence in the results of the monitoring programs in order to assure the regulatory agencies and the public that the results are valid." NRC Regulatory Guide 4.15 B, Pg. 4.15-2. This provides the opportunity to implement corrective actions that address possible deficiencies. Examples of the activities of the Quality Assurance Program include:

- regular review of sample collection and records
- regular review of laboratory procedures and methods
- participation in an Environmental Interlaboratory Comparison Program, which provides an independent assessment of the quality of laboratory results.
- the use of known concentrations of radioactivity in test samples by the laboratory to ensure consistent quality results on an ongoing basis.

## RADIOLOGICAL MONITORING PROGRAM GENERAL DESCRIPTION

Although the contribution to background radiation is small, Carolina Power & Light Company; also known as Progress Energy Carolinas, Inc.; has established this program to measure the exposure pathways to man. An exposure pathway describes the source of the radiological exposure. The primary forms of potential radiological emissions from the plant are airborne and liquid discharge. The pathways monitored are external dose, ingestion of radioactive materials, and the inhalation of radioactive material. Specific methods and different environmental media are required to assess each pathway. Table 1 provides a list of the media used to assess each of these pathways.

**Table 1**  
**Media Used to Assess Exposure Pathways to Man**

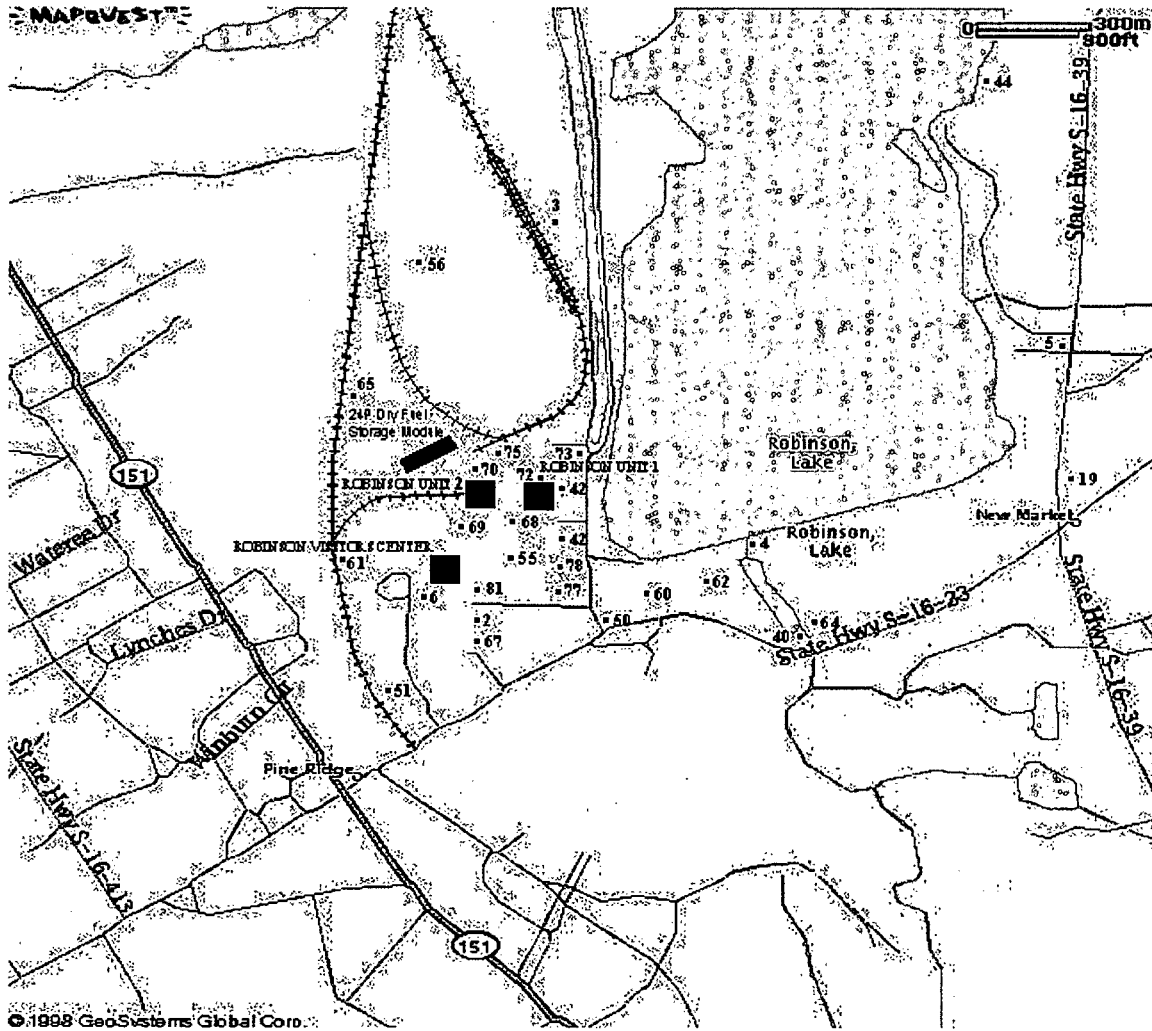
<u>Pathway of Exposure to Man</u>	<u>Media Sampled</u>
External Dose	Aquatic Vegetation Ground Water Shoreline Sediment Surface Water Thermoluminescent Dosimetry (TLD)
Ingestion	Broadleaf Vegetation Food Products Fish Ground Water Surface Water
Inhalation	Air Samples (Particulate & Radioiodine) Surface Water

### Sampling Locations

Sampling locations are chosen based upon meteorological factors, pre-operational monitoring, and results of the land use surveys. A number of locations are selected as controls. Control stations are selected because they are very unlikely to be affected by operation of the plant. Sample locations may be seen in Figures 2 and 3. A description of each sample location may be found in Table 2.



## Radiological Sampling Locations



**Figure 2: Radiological Sampling Locations (Near Plant)**

Stations not shown include 1, 7-18, 20-39, 41, 45, 46, 47, 49, 52, 54, 57, 58, 66, 71, 74, 76, 79, and 80.

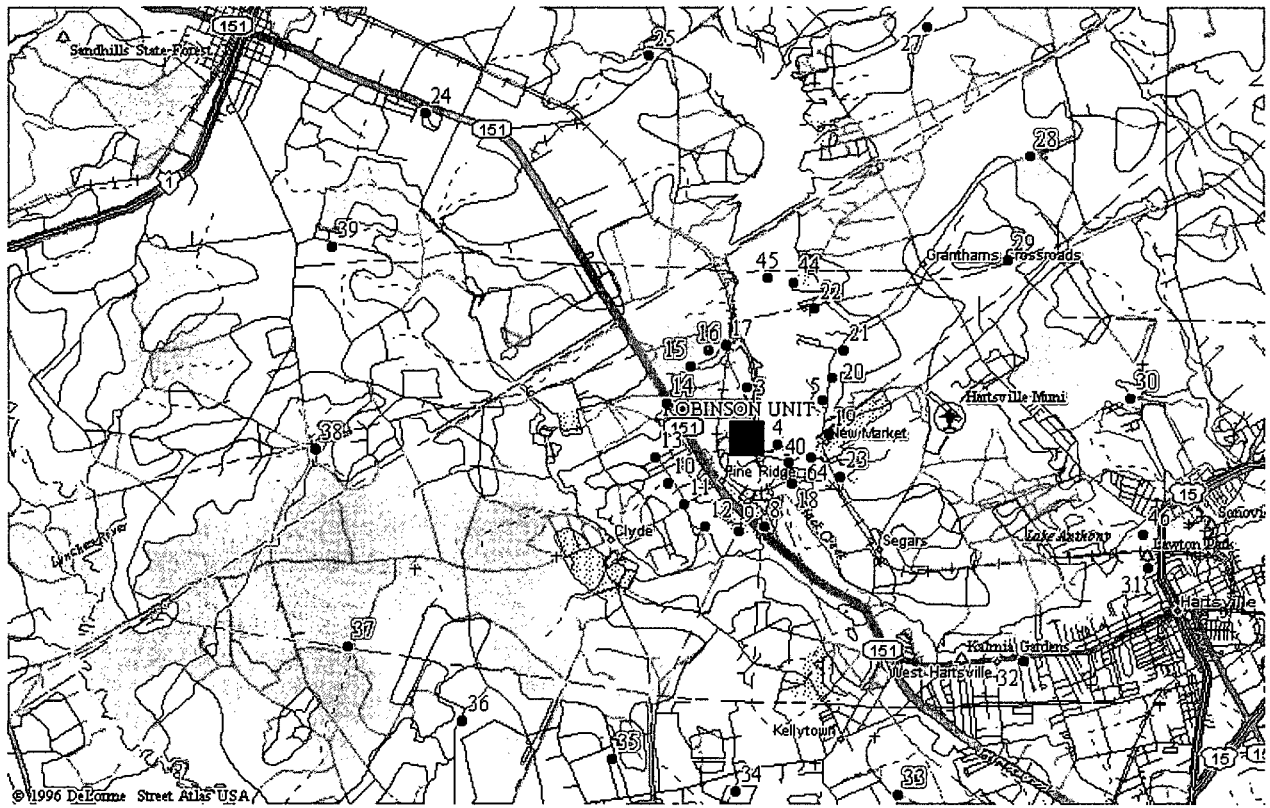
**Sample Types**

- Air Cartridge & Particulate
- Shoreline Sediment
- Ground Water
- Broadleaf Vegetation
- Surface Water
- Thermoluminescent Dosimeter
- Fish
- Food Products
- Aquatic Vegetation & Bottom Sediment

**Sample Locations**

- 1-7, 55, 60, 61
- 44, 57
- 42, 64, 68 - 81
- 50, 51, 52, 62, 67
- 40, 41, 57, 66
- 1-39, 55, 56, 61, 65
- 45-47
- 49, 54, 58
- 41, 45, 46, 66

## Radiological Sampling Locations



**Figure 3: Radiological Sampling Locations (Distant from Plant)**

Stations not shown include 1, 2, 6, 7, 26, 41, 42, 47 (varies), 49 (varies), 50, 51, 52, 54, 55, 56, 57, 58 (varies), 60, 61, 62, 65, 66, 67, and 68 - 81.

<u>Sample Types</u>	<u>Sample Locations</u>
Air Cartridge & Particulate	1-7, 55, 60, 61
Shoreline Sediment	44, 57
Ground Water	42, 64, 68 - 81
Broadleaf Vegetation	50, 51, 52, 62, 67
Surface Water	40, 41, 57, 66
Thermoluminescent Dosimeter	1-39, 55, 56, 61, 65
Fish	45-47
Food Products	49, 54, 58
Aquatic Vegetation & Bottom Sediment	41, 45, 46, 66

**Table 2**  
**Radiological Monitoring Sampling Locations**  
**for**  
**H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP)**

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Air Cartridge (AC)	1--24.4 miles ESE Florence, S.C.* 2--0.2 miles S Information Center 3--0.5 miles N Microwave Tower 4--0.4 miles ESE Spillway 5--0.9 miles ENE East shore of lake near Johnson's Landing 6--0.2 miles SSW Information Center 7--6.4 miles ESE CP&L facility on RR Ave., Hartsville 55--0.2 miles SSE South of West Settling Pond 60--0.2 miles SE Robinson Picnic Area 61--0.3 miles WSW West Parking lot near RR tracks	Weekly	510 m <sup>3</sup>	Iodine
Air Particulate (AP)	1--24.4 miles ESE Florence, S.C.* 2--0.2 miles S Information Center 3--0.5 miles N Microwave Tower 4--0.4 miles ESE Spillway 5--0.9 miles ENE East shore of lake near Johnson's Landing 6--0.2 miles SSW Information Center 7--6.4 miles ESE CP&L facility on RR Ave., Hartsville 55--0.2 miles SSE South of West Settling Pond 60--0.2 miles SE Robinson Picnic Area 61--0.3 miles WSW West Parking lot near RR tracks	Weekly	510 m <sup>3</sup>	Gross Beta (Weekly)  Composite Gamma (Quarterly)
Fish (FI) (Bottom Feeders & Free Swimmers)	45--Site varies within Lake Robinson 46--Site varies within Prestwood Lake 47--Control station, Any lake not influenced by plant discharge*	Semiannual	495 grams (wet)	Gamma (edible portions)
Broadleaf Vegetation (BL)	50--SSE Close to Site Boundary 51--SSW Close to Site Boundary 52--10 miles W near Bethune* 62--SE Close to Site Boundary 67--S Close to Site Boundary	Monthly (As available)	350 grams (wet)	Gamma Iodine
Shoreline Sediment (SS)	44--1.6 miles NNE East shore of lake, Shady Rest Club 57--Ash Pond Shore	Semiannual	575 grams	Gamma
Aquatic Veg. (AV) & Bottom Sediments (SD)	41--7.2 miles NNW Black Creek (upstream)* 45--Site varies within Lake Robinson 46--Site varies within Prestwood Lake 66--Black Creek between Prestwood Lake discharge & upstream of Sonoco spray farm (downstream)	Annual	420 grams and 575 grams	Gamma
Ground Water (GW)	42--Unit 1 Deep Wells 64--0.6 miles SE Artesian Well 68--Well A Btwn Unit 1 Switchyard & breakroom 69--Well B Bhd the Training Building 70--Well C Btwn the O&M Building & Fab Shop 71--0.87miles NNW (MW-03A) Btwn Ash Pond & RR tracks 72--0.10 miles E (MW-06) 20 ft from FP/FH 7 fire Hydrant & Unit 1 North Deep Well Pump 73--0.11 miles ENE (MW-13) Btwn Discharge Canal & Unit 1 Stand Alone Fuel Oil Tanks 74--0.96 miles NNW (P-08-ASH) 20 ft W of RR Tracks & 100 ft E of Ash Pond	Quarterly Grab	4 liters	Gamma Tritium

Table 2 (Continued)

**Radiological Monitoring Sampling Locations  
for  
H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP)**

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Ground Water (GW) Continued	75--0.05 miles NE (PSW-02) By Unit 1 boundary Fence to Unit 2 across paved rd. from Hydrogen Gas Tanks 76--0.49 miles N (PSW-03) NE corner of the MET Tower Station 77--0.25 miles SSE (TS-01B) By entrance rd. to Unit 1 78--0.17 miles SSE (TS-02C) NE corner by East Settling Pond influent by fence 79--1.0 miles N (TS-07C) S corner by cove & Discharge Canal 80--0.97 miles NNW (TS-08C) E of dirt rd. to MET Tower Station 81--0.19 miles SSE (TS-17B) W of West Settling Pond across paved rd.	Quarterly Grab	4 liters	Gamma Tritium
Surface Water (SW)	40--0.6 miles ESE Black Creek at Old Camden Road (S-16-23) 41--8.0 miles N Black Creek at US Hwy 1* 57--Ash Pond 66--Black Creek between Prestwood Lake discharge & upstream of Sonoco spray farm	Monthly Composite	4 liters	Gamma Tritium
Food Products (FP)	58--Site varies from plant 49--10.0 miles W or greater than 5 miles from plant * 54--10.1 miles E Auburndale Plantation (if irrigating from Black Creek)	Annual at Harvest	350 grams	Gamma (edible portions)

\* Control Stations

Table 2 (Continued)

**Radiological Monitoring Sampling Locations  
for  
H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP)**

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Thermoluminescent Dosimetry (TLD)	1--24.4 miles ESE Florence, S.C. * 2--0.2 mile S Information Center <sup>1,2</sup> 3--0.5 mile N Microwave Tower 4--0.4 mile ESE Spillway 5--0.9 mile ENE East shore of lake near Johnson's Landing 6--0.2 mile SSW Information Center <sup>1,2</sup> 7--6.4 miles ESE CP&L Facility on RR Ave., Hartsville 8--0.8 mile SSE Transmission right-of-way 9--1.0 mile S Transmission right-of-way 10--1.0 mile WSW Clyde Church of God 11--1.0 mile SW Old Camden Road 12--1.2 miles SSW off of Old Camden Road 13--0.7 miles W Corner of Saluda and Sandpit Roads 14--0.8 mile WNW First Baptist Church of Pine Ridge 15--0.7 miles NW Transmission right-of-way 16--1.0 mile NNW South side of Darlington Co. IC Turbine Plant 17--1.2 miles N Darlington Co. Plant emergency fire pump 18--0.7 mile SE Near Old Black Creek RR trestle 19--1.0 mile E Old Camden Road (#S-16-23) 20--1.0 mile ENE New Market Road (#S-16-39) 21--1.4 miles NE New Market Road (#S-16-39) 22--1.7 miles NNE Shady Rest entrance off of Cloverdale Drive 23--1.0 miles ESE New Market Road (#S-16-39) 24--4.6 miles NW Sowell Road (#S-13-711) 25--4.0 miles NNW Lake Robinson Road (#S-13-346) 26--5.0 miles N Lake Robinson Road (#S-13-346) 27--5.4 miles NNE Prospect Church Road (#S-13-763) 28--4.3 miles NE New Market Road (#S-13-39) 29--4.0 miles ENE Ruby Road (#S-16-20) 30--4.4 miles E Ruby Road (#S-16-20) 31--4.6 miles ESE on Lakeshore Drive 32--4.0 miles SE Transmission right-of-way 33--4.5 miles SSE on Bay Road (#S-16-493) 34--4.7 miles S on Kellybell Road (#S-16-772) 35--4.5 miles SSW Kelly Bridge Road (#S-31-51) 36--5.0 miles SW on Kingston Drive 37--5.0 miles WSW Pine Cone Road 38--4.9 miles W at Union Church Road 39--5.1 miles WNW King's Pond Road 55--0.2 miles SSE South of the West Settling Pond 56--0.4 miles NNW North of the center of the 7P-ISFSI <sup>1,2</sup> 61--0.3 miles WSW West parking lot near RR tracks <sup>2</sup> 65--0.3 miles WNW Northwest of the 24P-ISFSI <sup>2</sup>	Quarterly	Not Applicable	TLD Reading  Gamma Dose

\*Control Station

1 Required for monitoring of the 7P-ISFSI

2 Required for monitoring of the 24P-ISFSI

## **SUMMARY OF RADIOLOGICAL MONITORING PROGRAM**

The Radiological Environmental Monitoring Program (REMP) was conducted in accordance with the HBRSEP Off-Site Dose Calculation Manual (ODCM) and approved procedures.

The purpose of the REMP is to measure accumulation of radioactivity in the environment, to determine whether this radioactivity is the result of the operation of the HBRSEP, Unit No. 2, and to assess the potential dose to the off-site population based on the cumulative measurements of radioactivity of plant origin. Approximately 1,455 samples were collected from indicator and control locations and 1,540 analyses and measurements were made during 2009. Detectable radioactivity resulting from plant operation was found in 36 out of 36 indicator samples of surface water (Table 4). Only the tritium activity measured in the surface water of Lake Robinson and in fish samples constituted a source of public exposure. Using the methodology of Regulatory Guide 1.109 "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I, Revision 1, dated October 1977," the greatest potential exposure to an individual of the public (being a child) from the evaporation of tritium in Lake Robinson and consumption of fish in Lake Robinson is 0.124 millirem per year.

1. A statistical summary of all the data gathered in 2009 has been compiled in Table 3.
2. Radioactivity in environmental samples attributed to plant operations in 2009, for which there is a potential dose pathway to the public, is summarized in Table 4.
3. All detectable radionuclides in the environmental samples for 2009 were less than reporting levels as defined in HBRSEP ODCM. Table 5 summarizes the reporting levels.
4. Environmental sampling and analyses performed during 2009 demonstrated that the HBRSEP, Unit No. 2 continues to operate with minimum impact on the environment and minimal dose to the general public.

5. The following locations are used as control locations and are intended to indicate conditions away from the HBRSEP influence:

Thermoluminescent Dosimeters, Airborne and Particulate Samples	24.4 miles ESE, Florence, S.C. (Location 1)
Surface Water	8.0 miles N, Black Creek at US Highway 1 (Location 41)
Bottom Sediment and Aquatic Vegetation	7.2 miles NNW, Black Creek (upstream,) (Location 41)
Fish	Any lake not influenced by plant discharge (Location 47)
Broadleaf Vegetation	10 Miles W, near Bethune (Location 52)
Food Products	10.0 miles W or greater than 5 Miles from plant (Location 49 - Bethune - site varies)

**TABLE 3**  
**H. B. Robinson Steam Electric Plant, Unit No. 2 (HBRSEP)**  
**RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

H. B. Robinson Steam Electric Plant, Unit No. 2  
 Darlington County, South Carolina

Docket Number - 50-261  
 Calendar Year 2009

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean Range <sup>(2)</sup>	Location w/Highest Annual Mean		Control Locations Mean Range <sup>(2)</sup>	Number of Nonroutine Reported Measurements
				Name, Distance, and Direction	Mean Range <sup>(2)</sup>		
Air Cartridge (pCi/m <sup>3</sup> )	I-131 520 <sup>(3)</sup>	5.3E-2	All less than LLD	-----	-----	All less than LLD	0
Air Particulate (pCi/m <sup>3</sup> )	Gross Beta 520 <sup>(3)</sup>	2.9E-3	2.20E-2 (468/468) 1.27E-2 - 3.71E-2	Microwave Tower 0.5 miles N	2.34E-2 (52/52) 1.53E-2 - 3.71E-2	2.27E-2 (52/52) 1.35E-2 - 3.23E-2	0
	Gamma 40	See Table 6	All less than LLD	-----	-----	All less than LLD	0
Aquatic Vegetation <sup>(5)</sup> (pCi/g, wet)	Gamma 4 Co-58	3.2E-2	2.91E-2 (1/3) Single value	Site varies within Lake Robinson	2.91E-2 (1/1) Single value	All less than LLD	0
	Cs-137	3.3E-2	1.50E-2 (1/3) Single value	Site varies within Lake Robinson	1.50E-2 (1/1) Single value	All less than LLD	0
Broadleaf Vegetation (pCi/g, wet)	Gamma 90 <sup>(3)(4)</sup> Cs-137	4.8E-2	4.54E-2 (25/72) 1.75E-2 - 1.47E-1	Close to Site Boundary SE	5.84E-2 (4/18) 2.10E-2 - 1.47E-1	4.22E-2 (10/18) 1.90E-2 - 9.39E-2	0
Fish Free-Swimmer (pCi/g, wet)	Gamma 6 K-40	2.8E-1	4.05E+0 (4/4) 3.67E+0 - 4.45E+0	Site varies within Lake Robinson	4.20E+0 (2/2) 3.95E+0 - 4.45E+0	3.57E+0 (2/2) 3.44E+0 - 3.70E+0	0
	Cs-137	4.1E-2	4.81E-2 (4/4) 2.90E-2 - 6.23E-2	Site varies within Prestwood Lake	5.59E-2 (2/2) 4.95E-2 - 6.23E-2	7.26E-2 (2/2) 6.78E-2 - 7.73E-2	0



**TABLE 3 (Cont.)  
HBRSEP  
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

H. B. Robinson Steam Electric Plant, Unit No. 2  
Darlington County, South Carolina

Docket Number - 50-261  
Calendar Year 2009

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean Range <sup>(2)</sup>	Location w/Highest Annual Mean		Control Locations Mean Range <sup>(2)</sup>	Number of Nonroutine Reported Measurements
				Name, Distance, and Direction	Mean Range <sup>(2)</sup>		
Fish Bottom-Feeder (pCi/g, wet)	Gamma 6 K-40	2.8E-1	3.48E+0 (4/4) 3.33E+0 – 3.78E+0	Site varies within Prestwood Lake	3.56E+0 (2/2) 3.33E+0 – 3.78E+0	3.23E+0 (2/2) 2.90E+0 – 3.55E+0	0
	Cs-137	4.1E-2	3.68E+0 (4/4) 2.95E-2 – 5.29E-2	Site varies within Prestwood Lake	4.12E-2 (2/2) 2.95E-2 – 5.29E-2	3.24E-2 (2/2) 2.69E-2 – 3.78E-2	0
Food Products (pCi/g, wet)	Gamma 4 <sup>(3)</sup> K-40	3.9E-1	3.06E+0 (2/2) 2.80E+0 – 3.33E+0	Site varies from Plant	3.06E+0 (2/2) 2.80E+0 – 3.33E+0	2.37E+0 (2/2) 1.43E+0 – 3.31E+0	0
	Cs-137	4.8E-2	All less than LLD	-----	-----	All less than LLD	0
Ground Water (pCi/l)	Gamma 37 <sup>(3)</sup>	See Table 6	All less than LLD	-----	-----	No control	0
	Tritium 37 <sup>(3)</sup>	2.20E+2 <sup>(7)</sup>	1.06E+3 (23/37) 3.03E+2 – 4.06E+3	TS-07C S corner by cove & discharge canal  1.0 mile N	3.77E+3 (2/2) 3.47E+3 – 4.06E+3	No control	0

**TABLE 3 (Cont.)  
HBRSEP  
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

H. B. Robinson Steam Electric Plant, Unit No. 2  
Darlington County, South Carolina

Docket Number - 50-261  
Calendar Year 2009

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean Range <sup>(2)</sup>	Location w/Highest Annual Mean		Control Locations Mean Range <sup>(2)</sup>	Number of Nonroutine Reported Measurements
				Name, Distance, and Direction	Mean Range <sup>(2)</sup>		
Shoreline Sediment (pCi/g, dry)	Gamma 4	See Table 6	All less than LLD	-----	-----	No Control	0
Bottom Sediment <sup>(3)</sup> (pCi/g, dry)	Gamma 4 Co-60	1.1E-1	1.23E-1 (2/3) 5.39E-2 – 1.92E-1	Site varies within Lake Robinson	1.92E-1 (1/1) Single value	All less than LLD	0
	Cs-137	9.1E-2	5.17E-1 (2/3) 3.92E-1 – 6.42E-1	Site varies within Lake Robinson	6.42E-1 (1/1) Single value	1.21E-1 (1/1) Single value	0

**TABLE 3 (Cont.)  
HBRSEP  
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

H. B. Robinson Steam Electric Plant, Unit No. 2  
Darlington County, South Carolina

Docket Number - 50-261  
Calendar Year 2009

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean Range <sup>(2)</sup>	Location w/Highest Annual Mean		Control Locations Mean Range <sup>(2)</sup>	Number of Nonroutine Reported Measurements
				Name, Distance, and Direction	Mean Range <sup>(2)</sup>		
Surface Water (pCi/l)	Gamma 48	See Table 6	All less than LLD	-----	-----	All less than LLD	0
	Tritium 48	2.20E+2 <sup>(7)</sup>	1.60E+3 (36/36) 7.74E+2 - 3.46E+3	Black Creek at Old Camden Rd. 0.6 miles ESE	1.86E+3 (12/12) 1.02E+3 - 3.46E+3	All less than LLD	0
TLD (mR/qtr) <sup>(6)</sup>	TLD 172 <sup>(3)</sup>	N/A	1.40E+1 (168/168) 6.10E+0 - 2.09E+1	Pine Cone Rd. 5.0 miles WSW	1.98E+1 (4/4) 1.84E+1 - 2.09E+1	1.25E+1 (4/4) 1.19E+1 - 1.30E+1	0

### FOOTNOTES TO TABLE 3

1. Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background that will be detected with 95 percent probability with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved.
2. Mean and range are based on detectable measurements only. The fractions of detectable measurements at specific locations are indicated in parentheses.
3. Missing samples are discussed in Missed Surveillances.
4. Three types of broadleaf vegetation samples are collected monthly when available from four locations for a possible total of 144 samples.
5. Bottom sediment and aquatic vegetation sampling are not required by plant Offsite Dose Calculation Manual (ODCM). Sampling and analysis is performed to monitor any radionuclide buildup in the lake.
6. TLD exposure is reported in milliroentgen (mR) per 90-day period (quarter) beginning in 1995.
7. The tritium LLD was lowered to approximately  $2.20\text{E}+2$  pCi/L for samples that typically demonstrate activity less than the LLD (groundwater and surface water control). The LLD was lowered to be consistent with the LLD used by the state laboratory. Other samples that typically exhibit activity greater than the LLD have a tritium Lower Limit of Detection (LLD) of  $1.0\text{E}+3$  pCi/L.

**TABLE 4**

**Potential Dose Pathways**

<b>Sample Media</b>	<b>Radionuclide</b>	<b>Highest Annual Mean (Average) Concentration and Occurrence</b>	<b>Maximum Individual Dose</b>
Surface Water	H-3	1.86E+3 (pCi/L) (12/12)	0.003 millirem/yr - child (from fish)
Surface Water	H-3	1.86E+3 (pCi/L) (12/12)	0.121 millirem/yr - child (Evaporation from Lake Robinson)

TABLE 5

Reporting Levels for Radioactivity Concentrations

in Environmental Samples

Radionuclide	Water (pCi/l)	Airborne (pCi/m <sup>3</sup> )	Fish (pCi/kg, wet)	Milk (pCi/l)	Food Products (pCi/kg, wet)
H-3	2E+04	----	----	----	----
Mn-54	1E+03	----	3E+04	----	----
Fe-59	4E+02	----	1E+04	----	----
Co-58	1E+03	----	3E+04	----	----
Co-60	3E+02	----	1E+04	----	----
Zn-65	3E+02	----	2E+04	----	----
Zr-Nb-95	4E+02	----	----	----	----
I-131	2E+00	9E-01	----	3E+00	1E+02
Cs-134	3E+01	1E+01	1E+03	6E+01	1E+03
Cs-137	5E+01	2E+01	2E+03	7E+01	2E+03
Ba-La-140	2E+02	----	----	3E+02	----

## **INTERPRETATIONS AND CONCLUSIONS**

### **Air Sampling**

Air samples collected during 2009 had a mean gross beta activity of  $2.20\text{E-}2$  pCi/m<sup>3</sup> for the indicator stations versus an average concentration of  $2.27\text{E-}2$  pCi/m<sup>3</sup> for the control stations. These data are essentially unchanged from 2008 and reflect the occurrence of naturally occurring radionuclides of the region. The lower current value is primarily due to the reduction of worldwide fallout that was occurring during the pre-operational years. Figures 4 through 12 provide a graphic representation of the gross beta activity at the indicator locations compared to the control location for 2009. These figures confirm that the indicator stations show no significant increase over the control samples and hence no discernible impact from the plant operation is apparent in the data. Air samplers that experienced down time of greater than 30 hours in a surveillance period are referred to as missed surveillances and discussions can be located in the Missed Surveillances Section of this report. The air samplers operated for 99.9% of the 2009 year.

The quarterly composite gamma analyses for air particulate samples for all quarters revealed no radionuclides typical of plant effluents.

There was no Iodine-131 (I-131) detected in any of the 468 air cartridge (AC) samples from the indicator stations and 52 air cartridges from the control location in 2009.

### **Broadleaf Vegetation**

Broadleaf vegetation sampling is accomplished by collecting cherry, sassafras, and wax myrtle leaves in 2009. Three species of samples, when available, are collected monthly at four locations (one control and three indicator locations at the site boundary selected using historical meteorology with the highest calculated annual average ground level deposition). Broadleaf sampling is conducted since no milk animals are located within a radius of approximately five miles of the plant and is used to simulate dose to an individual via the milk pathway for compliance purposes.

During 2009, 25 of 72 samples taken from the indicator sites demonstrated detectable concentrations of Cs-137 for an average value of  $4.54\text{E-}2$  pCi/g (wet). The control samples had detectable concentrations of Cs-137 in 10 of 18 samples with a mean concentration of  $4.22\text{E-}2$  pCi/g (wet). Upon comparing these results, it is concluded that the indicator values reflect fallout Cs-137 contamination. Past sampling experience further supports this interpretation.

### **Fish**

Samples of free-swimming and bottom-feeding fish were taken from Lake Robinson and Prestwood Lake (the first downstream lake) and compared to similar fish from a control lake, which is unaffected by plant operation. During 2009, 4 out of 4 bottom-feeding fish and 4 out of 4 free-swimming fish (indicator sites) demonstrated detectable concentrations of Cs-137 for an average value of  $3.68\text{E-}2$  pCi/g (wet) and  $4.81\text{E-}2$  pCi/g (wet), respectively. The control samples had detectable concentrations of Cs-137 for 2 out of 2 bottom-feeding fish and 2 out of 2 free-swimming fish for an average concentration of  $3.24\text{E-}2$  pCi/g (wet) and  $7.26\text{E-}2$  pCi/g (wet), respectively. Upon comparing these results, it is concluded that the indicator values reflect fallout Cs-137 contamination. Past sampling experience further supports this interpretation.

### **Ground Water**

No gamma activity associated with plant operations was detected in the thirty-seven (37) samples of ground water collected in 2009. The ground water samples had detectable concentrations of tritium activity in twenty-three (23) out of thirty-seven (37) samples, for an average concentration of  $1.06\text{E+}3$  pCi/L; with a range of  $3.03\text{E+}2$  pCi/L thru  $4.06\text{E+}3$  pCi/L. The Lower Limit of Detection (LLD) required for I-131 ( $<1$  pCi/L) per the RNP ODCM Revision 30, effective 8/27/09, for ground water samples was not met for the third and fourth quarters of 2009. This change to the I-131 LLD requirement of  $<1.0$  pCi/L was not incorporated into the Chemistry Services procedures or work practices (NCR # 372057).



### **Milk**

Broadleaf sampling is conducted since no milk animals are located within a radius of approximately five miles of the plant in any sector and is used to simulate dose to an individual via the milk pathway for compliance purposes.

### **Food Products**

During 2009, samples were obtained from control location (FP-49) and indicator location (FP-58) food products (cabbage and collards). No gamma activity associated with plant operation was detected in any control or indicator samples.

### **Shoreline Sediment**

In 2009, no gamma activity associated with plant operation was detected in any sample in the semiannual shoreline sediment samples. Only naturally occurring gamma activity was detected. Cs-137 activity seen in past years was attributed to worldwide fallout and not the plant operation. No Cs-137 activity was detected in 2009.

### **Bottom Sediment**

The bottom sediment samples are used as indicators of buildup of radioactivity in the environment and do not constitute a dose pathway. Cs-137 activity was detectable in two of the three indicator bottom sediment samples in 2009, with an average concentration of  $5.17\text{E-}1$  pCi/g (dry). The control sample indicated detectable Cs-137 activity with a concentration of  $1.21\text{E-}1$  pCi/g (dry). Cobalt-60 (Co-60) activity was detectable in two of the three indicator samples with an average concentration of  $1.23\text{E-}1$  pCi/g (dry). The Co-60 in the bottom sediment is attributed to plant operation. This concentration is similar to previous years and does not indicate a buildup in the environment. No other gamma activity, except for naturally occurring gamma activity, was detected in the annual bottom sediment samples in 2009.

### **Aquatic Vegetation**

The aquatic vegetation samples are considered to be sensitive environmental indicators and do not constitute a dose pathway. In 2009, there were three aquatic vegetation indicator samples collected and one aquatic vegetation control sample collected. The aquatic vegetation samples collected pose no dose consequence since this is not a dose pathway. No gamma activity, except for naturally occurring gamma activity, was detected in the annual control aquatic vegetation sample. Cobalt (Co)-58 activity was detectable in one of three indicator samples with a single concentration of  $2.91\text{E-}2$  pCi/g (wet) in 2009. Cesium (Cs)-137 activity was also detectable in one of three indicator samples with a single concentration of  $1.50\text{E-}2$  pCi/g (wet). The Co-58 and Cs-137 in the aquatic vegetation is attributed to plant operation. This concentration is similar to previous years and does not indicate unexpected levels in the environment.

### **Surface Water**

Surface waters of Lake Robinson indicated the presence of tritium which is attributed to plant operation. This tritium activity is cyclic and follows the Robinson Plant fuel cycle. Figure 13 displays the tritium activity throughout 2009. These surface waters do not supply drinking water at any downstream location and are not used for irrigation. Therefore, radiological dose via this pathway is limited to the consumption of fish and evaporation of tritium from Lake Robinson and its subsequent inhalation and ingestion from vegetable gardens and meat producing animals. Using the methodology of Regulatory Guide 1.109, a dose of 0.124 millirem/year to the maximum exposed individual could be assigned to this pathway.

The monthly composite gamma analyses for surface water samples revealed no radionuclides typical of plant effluents. The Lower Limit of Detection (LLD) required for I-131 ( $<1$  pCi/L) per the RNP ODCM Revision 30, effective 8/27/09, for surface water samples was not met for September thru December 2009. This change to the I-131 LLD requirement of  $<1.0$  pCi/L was not incorporated into the Chemistry Services procedures or work practices (NCR # 372057).

### **External Radiation**

Direct radiation exposure in the HBRSEP environs was measured by the placement of thermoluminescent dosimeters (TLDs) around the plant forming an inner ring at approximately 1 mile and an outer ring at approximately 5 miles. The average of inner versus outer ring dose measurements is shown on Figure 14.

### **Asiatic Clams**

Benthic samples from Lake Robinson during 2009 continue to confirm the absence of any substantial populations of Asiatic clams (*Corbicula fluminea*). The natural chemistry of the lake (i.e., low alkalinity and hardness) inhibits their proliferation.

## **MISSED SURVEILLANCES**

### **Air Cartridge and Air Particulates**

Any REMP weekly air samples (Air Cartridge – AC or Air Particulate – AP (APAC)) that exceed 30 hours of down time in a surveillance period will be reported as a “missed surveillance”. However, this sample will still be counted and the data reported; whereas a “missed sample” indicates that no sample was available and no data was reported.

All AP and AC samples were available for counting in 2009.

Missed Samples:

- None for 2009

Missed Surveillances:

- APAC-60, October 12 – Total down time was 42.6 hours. The air sampler was found not running and the fuse was replaced. The unit did not operate. It was repaired and returned to service (NCR #360403).

### **Broadleaf Vegetation**

Broadleaf vegetation (BL) samples were not available during the months of January, February, March, April, November, and December of 2009 due to the seasonal nature of broadleaf vegetation (NCR #314750, 318762, 324062, 331093, 366363, and 371296).

### **Ground water**

GW-74, Well P-08-ASH (3<sup>rd</sup> Quarter 2009)

When collecting the quarterly ground water samples for third quarter 2009, GW-74 was not obtainable because the well was dry (NCR # 357778).

#### GW samples for 3<sup>rd</sup> and 4<sup>th</sup> Quarters 2009

The Lower Limit of Detection (LLD) required for I-131 (<1 pCi/L) per the RNP ODCM Revision 30, effective 8/27/09, for ground water samples was not met for the third and fourth quarters of 2009. This change to the I-131 LLD requirement of <1.0 pCi/L was not incorporated into the Chemistry Services procedures or work practices (NCR # 372057).

#### **Surface Water**

##### SW-40 & SW-41 (September thru December 2009)

The Lower Limit of Detection (LLD) required for I-131 (<1 pCi/L) per the RNP ODCM Revision 30, effective 8/27/09, for surface water samples was not met for September thru December 2009. This change to the I-131 LLD requirement of <1.0 pCi/L was not incorporated into the Chemistry Services procedures or work practices (NCR # 372057).

#### **Thermoluminescent Dosimeters (TLDs)**

None of the possible 172 TLD samples were missing during 2009.

## **ANALYTICAL PROCEDURES**

### **Gross Beta**

Gross beta radioactivity measurements are made using a Tennelec Low-Background Alpha/Beta Counting System. The LLD for air particulates is approximately  $2.9\text{E-}3$  pCi/m<sup>3</sup>.

Air particulate samples are mounted in 2-inch stainless steel planchets and typically counted directly for 50 minutes.

### **Tritium**

Liquid samples requiring tritium analysis are treated with a small amount of sodium hydroxide, potassium permanganate crystals, and then distilled. Five milliliters of the distillate are mixed with thirteen milliliters of liquid scintillation cocktail and counted in a liquid scintillation counter typically for 400 minutes. The lower LLD (approximately  $2.20\text{E+}2$  pCi/L) was established for consistency with the state laboratory for valid comparisons.

### **Iodine-131**

Iodine-131 airborne concentrations are analyzed by the intrinsic germanium (Ge) gamma spectrometry systems. The cartridges are placed on the detector and each charcoal cartridge is typically counted for 900 seconds individually with an approximate LLD of  $5.3\text{E-}2$  pCi/m<sup>3</sup>.

### **Gamma Spectrometry**

Gamma spectrum analysis uses intrinsic germanium detectors with thin aluminum windows housed in steel and lead shields. The analyzer system is the Canberra APEX Gamma Spectroscopy System. Table 6 summarizes LLD values derived from using the instrument with the worst sensitivity, typical sample volumes, typical count times, typical worst background count, and worst case on decay (from collection to counting).

Air particulate quarterly composite filters are placed in a Petri dish and analyzed directly for a typical count time of 2,000 seconds.

Liquid samples are transferred to Marinelli beakers and analyzed by gamma counting. One-liter ground water samples are gamma scanned directly in a 1-Liter Marinelli beaker for 10,000 seconds and the surface water samples for 60,000 seconds.

Shoreline and bottom sediments are dried, ground, weighed, and then analyzed in a 1-liter Marinelli beaker typically for 1,500 seconds.

Broadleaf and aquatic vegetation and food product samples are weighed wet and analyzed in a Marinelli beaker for typically 7,500 seconds.

Fish samples are prepared by stuffing small raw, edible portions of the fish in a 1-liter Marinelli beaker for gamma analysis and are typically counted for 3,200 seconds.

### **Thermoluminescent Dosimetry**

Each area monitoring station includes a TLD packet, which is a polyethylene bag containing three calcium sulfate phosphors contained in a Panasonic UD-814 badge. The TLD is light tight and the bag is weather-resistant.

Dosimeters are machine annealed before field placement. Following exposure in the field, each dosimeter is read utilizing a Panasonic TLD reader. This instrument integrates the light photons emitted from traps as the dosimeter is heated. Calibration is calculated using dosimeters irradiated to known doses for each set of dosimeters measured. Prior to the measurement of each dosimeter, the instrument is checked through use of an internal constant light source as a secondary standard. The exposure reported is corrected for exposure received in transit and during storage through the use of control dosimeters.

## **Interlaboratory Comparison Program**

The Radiochemistry Laboratory at the Harris Energy & Environmental Center in New Hill, North Carolina, provides radioanalytical services for Progress Energy Carolinas, Inc.'s nuclear plant radiological environmental surveillance programs. In fulfillment of ODCM Operational Requirements, the laboratory is a participant in the Eckert & Ziegler Analytics Environmental Cross Check Program and uses its performance in this program as a major determinant of the accuracy and precision of its analytical results.

The Interlaboratory Comparison Program entails measurements on each instrument that is used to determine concentrations of radioactive material in the various media that are analyzed as part of the REMP. From these individual measurements, average results are calculated for each sample medium. During 2009, 94 average analyses were completed on 18 samples representing seven major environmental media (i.e., water, milk, air filters, air filters composite, soil, air cartridges, and simulated vegetation). Data on the known activities, the uncertainties, and the ratios to the known for the 94 average analyses have been received from Eckert & Ziegler Analytics. The results were compared to the criteria established in the NRC Inspection Manual (Procedure 84750) for Radioactive Waste Treatment, Effluent, and Environmental Monitoring (see below results).

All of the 94 average analyses were within the acceptance criteria. During 2009, individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors (NCR # 334599, 360485, and 376364). Complete documentation of any evaluation will be available and provided to the NRC upon request.



## HEEC - Interlaboratory Comparison Program Data for 2009

Results are compared to the criteria established in the NRC Inspection Manual (Procedure B4750) for Radioactive Waste Treatment, Effluents, and Environmental monitoring. The acceptable ratio range is typically 0.80 to 1.25 unless otherwise noted.

### Gamma Emitters + I-131 in Milk

Nuclide	4th Quarter 2008			1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
	E6526-668			E6526-668			E6526-668			E6526-668		
	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known
I-131				77.5	79.3	0.98						
Ce-141				92.8	94.9	0.98						
Cr-51				304	305	1.00						
Cs-134				85.4	93.7	0.91						
Cs-137				113	111	1.02						
Co-58				119	119	1.00						
Mn-54				135	128	1.05						
Fe-59				110	99.9	1.10						
Zn-65				161	156	1.03						
Co-60				148	142	1.04						

### Gamma Emitters + I-131 in Water

Nuclide	4th Quarter 2008			1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
	E6527-668			E6527-668			E6685-668			E6885-668		
	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known
I-131				70.1	69.0	1.02	88	88.3	1.00	99	98.4	1.01
Ce-141				121	120	1.01	219	216	1.01	265	264	1.00
Cr-51				402	387	1.04	306	304	1.01	220	212	1.04
Cs-134				109	119	0.92	119	126	0.94	111	118	0.94
Cs-137				144	141	1.02	153	146	1.05	183	177	1.03
Co-58				151	151	1.00	71	69.8	1.02	97	95.4	1.02
Mn-54				173	162	1.07	108	104	1.04	202	198	1.02
Fe-59				138	127	1.09	98	92.9	1.05	156	141	1.11
Zn-65				206	197	1.05	147	133	1.11	217	195	1.11
Co-60				189	180	1.05	246	237	1.04	160	154	1.04

### Gross Beta (Cs-137) in Water

Nuclide	4th Quarter 2008			1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
	E6413-668			E6525-668			E6686-668			E6886-668		
	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known
Gross Beta	145	130	1.12	239	235	1.02				215	223	0.96

### Tritium in Water

Nuclide	4th Quarter 2008			1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
	E6411-668			E6524-668			E6524-668			E6524-668		
	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known
H-3	10100	10200	0.99	4560	4480.0	1.02						

Gamma Emitters in Simulated Vegetation												
4th Quarter 2008				1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
E6528-668												
Nuclide	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known
Ce-141				0.125	0.123	1.02						
Cr-51				0.402	0.395	1.02						
Cs-134				0.113	0.121	0.93						
Cs-137				0.145	0.144	1.01						
Co-58				0.153	0.154	0.99						
Mn-54				0.170	0.165	1.03						
Fe-59				0.143	0.129	1.11						
Zn-65				0.212	0.202	1.05						
Co-60				0.187	0.184	1.02						
Gross Beta Filter												
4th Quarter 2008				1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
E6412-668												
Nuclide	HEEC Value (pCi/Filter)	Known Value (pCi/Filter)	Ratio to Known	HEEC Value (pCi/Filter)	Known Value (pCi/Filter)	Ratio to Known	HEEC Value (pCi/Filter)	Known Value (pCi/Filter)	Ratio to Known	HEEC Value (pCi/Filter)	Known Value (pCi/Filter)	Ratio to Known
Gross Beta	111	106	1.05				83.5	84.8	0.98			
I-131 on Face Loaded Charcoal Cartridge												
4th Quarter 2008				1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
E6414-668												
Nuclide	HEEC Value (pCi/Unit)	Known Value (pCi/Unit)	Ratio to Known	HEEC Value (pCi/Unit)	Known Value (pCi/Unit)	Ratio to Known	HEEC Value (pCi/Unit)	Known Value (pCi/Unit)	Ratio to Known	HEEC Value (pCi/Unit)	Known Value (pCi/Unit)	Ratio to Known
I-131	55.4	53.3	1.04				94.1	95.7	0.98			
Gamma Filter												
4th Quarter 2008				1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
E6685-668												
Nuclide	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known
Ce-141				186	188	0.99	181	180	1.01			
Cr-51				249	265	0.94	145	145	1.00			
Cs-134				108	110	0.98	79	80.6	0.98			
Cs-137				127	127	1.00	125	121	1.03			
Co-58				61	60.8	1.00	66	65.1	1.01			
Mn-54				95	90.7	1.05	147	135	1.09			
Fe-59				92	81	1.14	114	96.3	1.18			
Zn-65				137	116	1.18	158	133	1.19			
Co-60				211	206	1.02	104	105	0.99			
Gamma 13 Filter Composite												
4th Quarter 2008				1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009		
E6687-668												
Nuclide	HEEC Value (pCi/Liter)	Known Value (pCi/Liter)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known	HEEC Value (pCi/gram)	Known Value (pCi/gram)	Ratio to Known
Ce-141				273	280	0.98						
Cr-51				388	394	0.98						
Cs-134				158	163	0.97						
Cs-137				190	189	1.01						
Co-58				90	90.5	0.99						
Mn-54				143	135	1.06						
Fe-59				134	120	1.12						
Zn-65				202	173	1.17						
Co-60				311	307	1.01						

Gamma Emitters in Soil													
4th Quarter 2008				1st Quarter 2009			2nd Quarter 2009			3rd Quarter 2009			
Nuclide	HEEC Value	Known Value	Ratio to Known	HEEC Value	Known Value	Ratio to Known	HEEC Value	Known Value	Ratio to Known	HEEC Value	Known Value	Ratio to Known	
	(pCi/Liter)	(pCi/Liter)		(pCi/gram)	(pCi/gram)		(pCi/gram)	(pCi/gram)		(pCi/gram)	(pCi/gram)		
Ce-141										0.643	0.644	1.00	
Cr-51										0.594	0.518	1.15	
Cs-134										0.274	0.288	0.95	
Cs-137										0.534	0.526	1.02	
Co-58										0.235	0.233	1.01	
Mn-54										0.484	0.483	1.00	
Fe-59										0.369	0.345	1.07	
Zn-65										0.500	0.477	1.05	
Co-60										0.365	0.375	0.97	

## Lower Limits of Detection

The samples analyzed met the “a priori” LLD required by the ODCM; however, the I-131 in surface water samples from September to December of 2009 and the ground water samples from third and fourth quarters 2009 were not analyzed to the drinking water I-131 limits (<1 pCi/L) per the stated requirement in the RNP ODCM Revision 30, effective August 27, 2009, (NCR # 372057). Typical “a priori” LLD values for the samples analyzed are listed in Table 6.

**Table 6**

**Typical Lower Limits of Detection (a priori)**

**Gamma Spectrometry**

<b><u>Surface Water/Groundwater Samples</u></b>	
<b>Isotope</b>	<b>LLD (pCi/L)</b>
Mn-54	3 / 9
Co-58	3 / 9
Fe-59	8 / 23
Co-60	3 / 10
Zn-65	6 / 20
Zr-Nb-95	6 - 4 / 14.9 - 10
I-131	14.4 / 14.4
Cs-134	4 / 11
Cs-137	3 / 10
Ba-La-140	29 - 9 / 46 - 15
<b><u>Air Cartridges</u></b>	
<b>(Weekly)</b>	
<b>Isotope</b>	<b>LLD (pCi/m<sup>3</sup>)</b>
I-131	0.053
<b><u>Air Particulates</u></b>	
<b>(Quarterly Composite)</b>	
<b>Isotope</b>	<b>LLD (pCi/m<sup>3</sup>)</b>
Cs-134	0.002
Cs-137	0.001

Table 6 (cont.)

<b><u>Sediments</u></b> <b>(Shoreline or Bottom)</b>	
<b>Isotope</b>	<b>LLD (pCi/kg, dry)</b>
Cs-134	119
Cs-137	91
<b><u>Fish</u></b>	
<b>Isotope</b>	<b>LLD (pCi/kg, wet)</b>
Mn-54	33
Co-58	39
Fe-59	105
Co-60	34
Zn-65	80
Cs-134	43
Cs-137	41
<b><u>Food Products and Vegetation / Aquatic</u></b>	
<b>Isotope</b>	<b>LLD (pCi/kg, wet)</b>
I-131	59 / 51
Cs-134	49 / 42
Cs-137	48 / 32

# LAND USE CENSUS

## PURPOSE OF THE LAND USE CENSUS

The land use census identifies the pathways (or routes) that radioactive material may reach the general populations near commercial nuclear generating stations. This is accomplished by completing studies that identify how the surrounding lands are used by the population. A comprehensive census of the use of the land within a five-mile distance of the plant is completed during the growing season. This information is used for dose assessment and to identify changes to the stations sampled and the type of samples. These results ensure that the Radiological Environmental Monitoring Program (REMP) is based upon current data regarding human activity in the vicinity of the plant. Therefore, the purpose of the land use census is to ensure the monitoring program is current, as well as to provide data for the calculation of estimated radiation exposure.

The pathways that are evaluated are:

- Ingestion Pathway - Results from eating food products that may have radioactive materials deposited on them, incorporated radioactive materials from the soil or atmosphere. Another pathway is through drinking milk from local cows or goats if present. The grass used to feed these animals may have incorporated or had deposited on it radioactive materials that can be transferred to the milk.
- Direct Radiation Exposure Pathway- Results from deposition of radioactive materials on the ground or from passage of these radioactive materials in the air.
- Inhalation Pathway- Results from breathing radioactive materials transported in the air.

## **Methodology**

The following must be identified within the five (5) mile radius of the plant for each of the sixteen meteorological sectors (compass direction the winds may blow, for example NNE [North North East]):

- The nearest resident
- The nearest garden of greater than 500 square feet, producing broadleaf vegetables
- The nearest milk animal
- The nearest meat/egg producing animal

The primary method is visual inspection from roadside within the five (5) mile radius.

## **Land Use Census Results**

The RNP Land Use Census was performed June 2009 to meet the requirements of the RNP's ODCM. The last RNP land use census was performed in June 2008. The 2009 and 2008 results of the survey for the nearest resident, garden, milk producing animal, and meat/egg producing animal for each meteorological sector are compared in Table 7.

No milk producing animals were identified within the five-mile radius of the site in any sector. Also, no garden (at the time of the census) is currently growing leafy vegetables. Vegetables like tomatoes, squash, okra, cucumbers, etc. are examples of the vegetables of choice for this area and are what is typically grown and sampled in the past. Sampling of these vegetables (non-leafy) will continue until leafy vegetables can be identified. Milk sampling will resume if a new sample location is identified. The results of the 2009 Land Use Census and 10 year average meteorological data were reviewed. No changes that require an ODCM change, additional dose calculations, or procedure changes were identified.

**TABLE 7**

**H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2**

**LAND USE CENSUS COMPARISONS (2008-2009)  
NEAREST PATHWAY (MILES)**

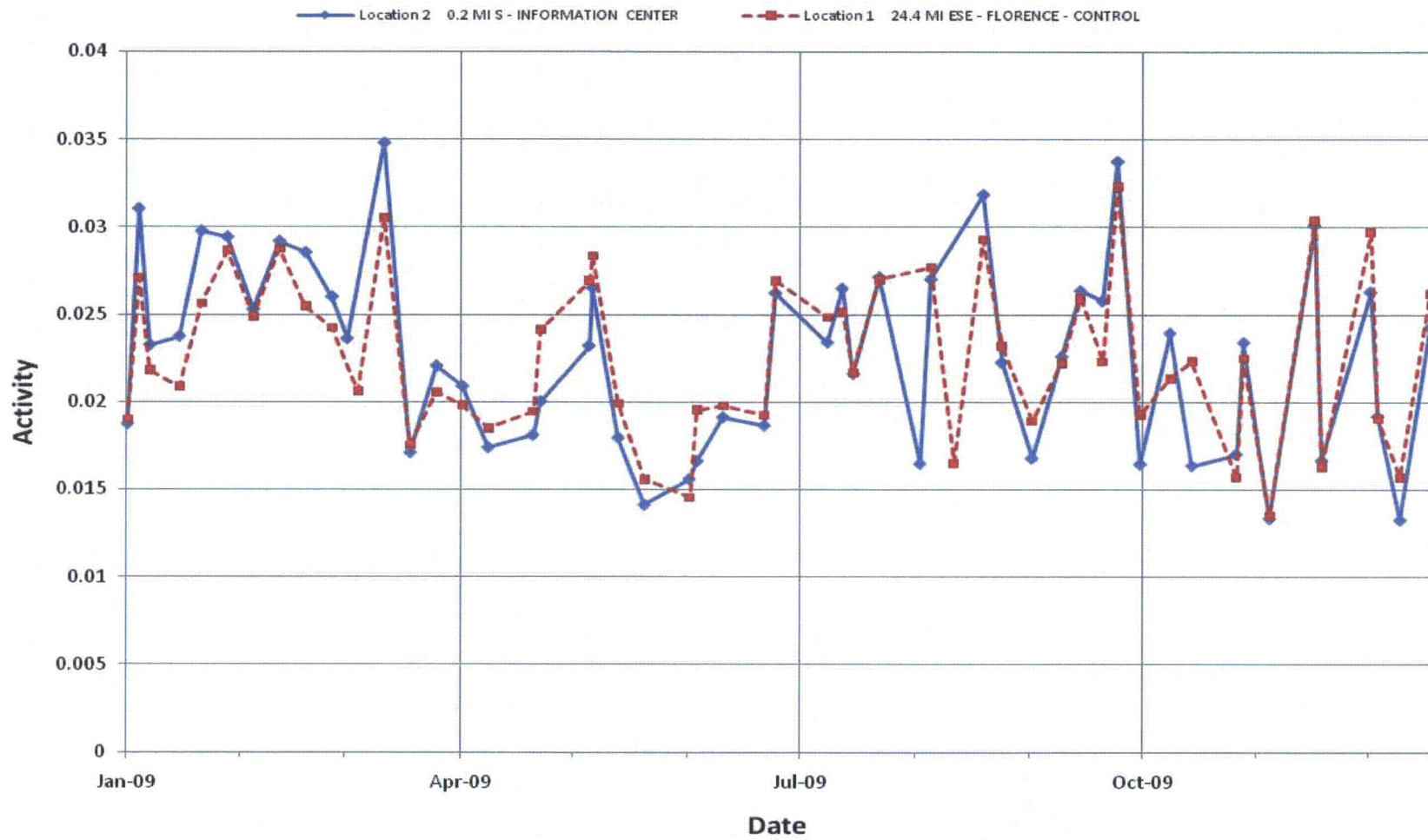
SECTOR	RESIDENT		GARDEN		MEAT/ EGG		MILK	
	2008	2009	2008	2009	2008	2009	2008	2009
N	2.81	2.81	3.31	3.31	3.31	3.31	---	---
NNE	1.51	1.51	2.68	2.64**	2.75	2.75	---	---
NE	1.03	1.03	1.09	2.45*	1.09	----*	---	---
ENE	0.83	0.83	1.06	1.06	2.44	2.44	---	---
E	0.90	0.90	1.05	1.05	2.98	2.98	---	---
ESE	0.62	0.62	1.28	1.28	0.70	0.70	---	---
SE	0.38	0.38	1.64	1.64*	2.00	2.00	---	---
SSE	0.40	0.33**	2.37	2.37	2.37	2.37	---	---
S	0.40	0.40	2.25	2.25	2.62	2.62	---	---
SSW	0.37	0.37	0.80	0.84**	0.96	0.84*	---	---
SW	0.50	0.46**	1.00	1.02**	3.54	3.54	---	---
WSW	0.50	0.45**	0.60	0.60	3.46	3.46	---	---
W	0.50	0.54**	2.82	2.82	0.80	0.84*	---	---
WNW	0.60	0.60*	0.70	0.70	4.27	4.27	---	---
NW	1.59	1.59	2.47	2.43*	2.00	2.09**	---	---
NNW	2.0	2.04*	3.51	3.53**	2.36	2.36	---	---

\*Changes or new locations from 2008.

\*\*Changes in mileage due to GPS readings.



Figure 4 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)



**Figure 5 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**

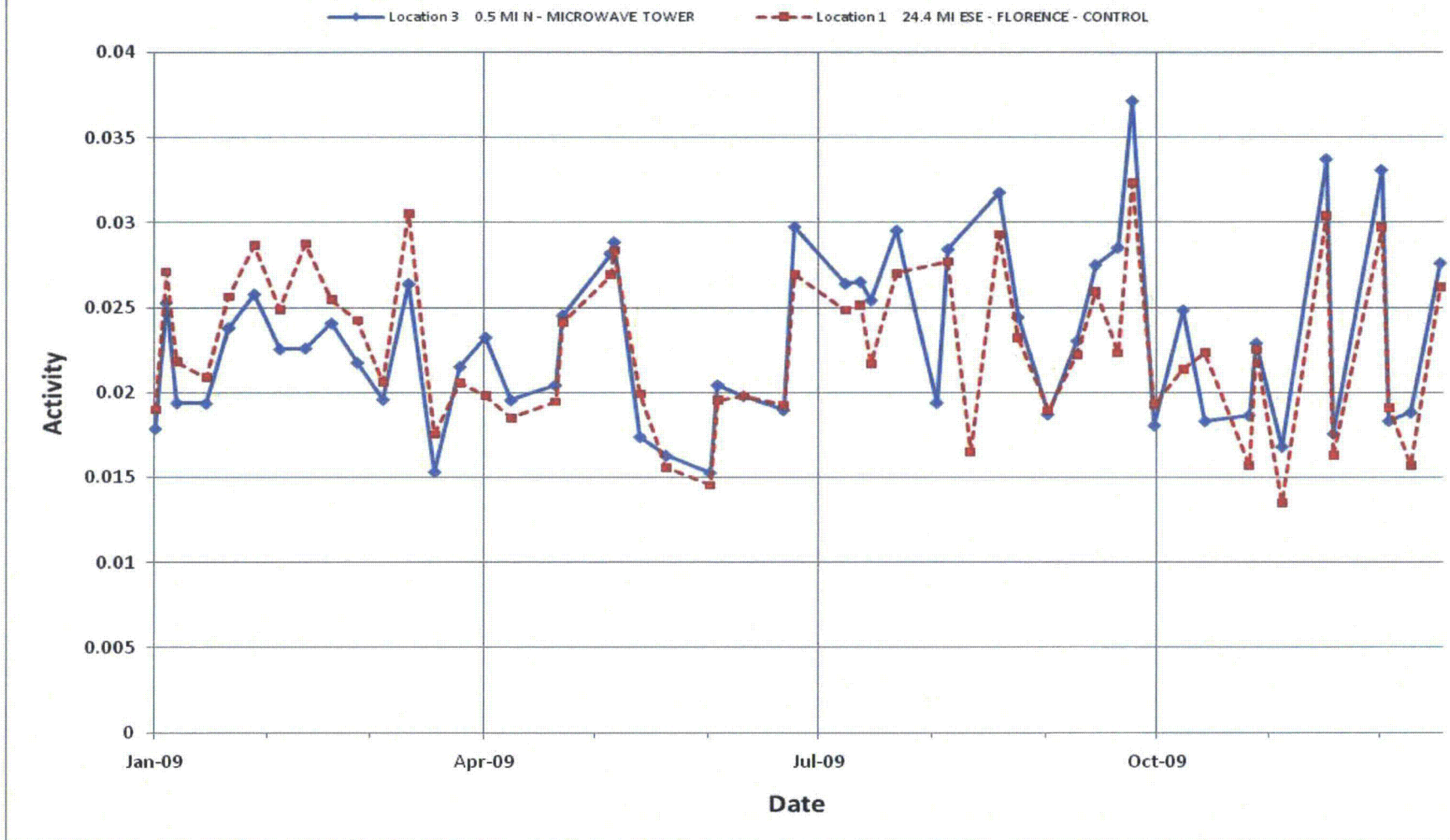
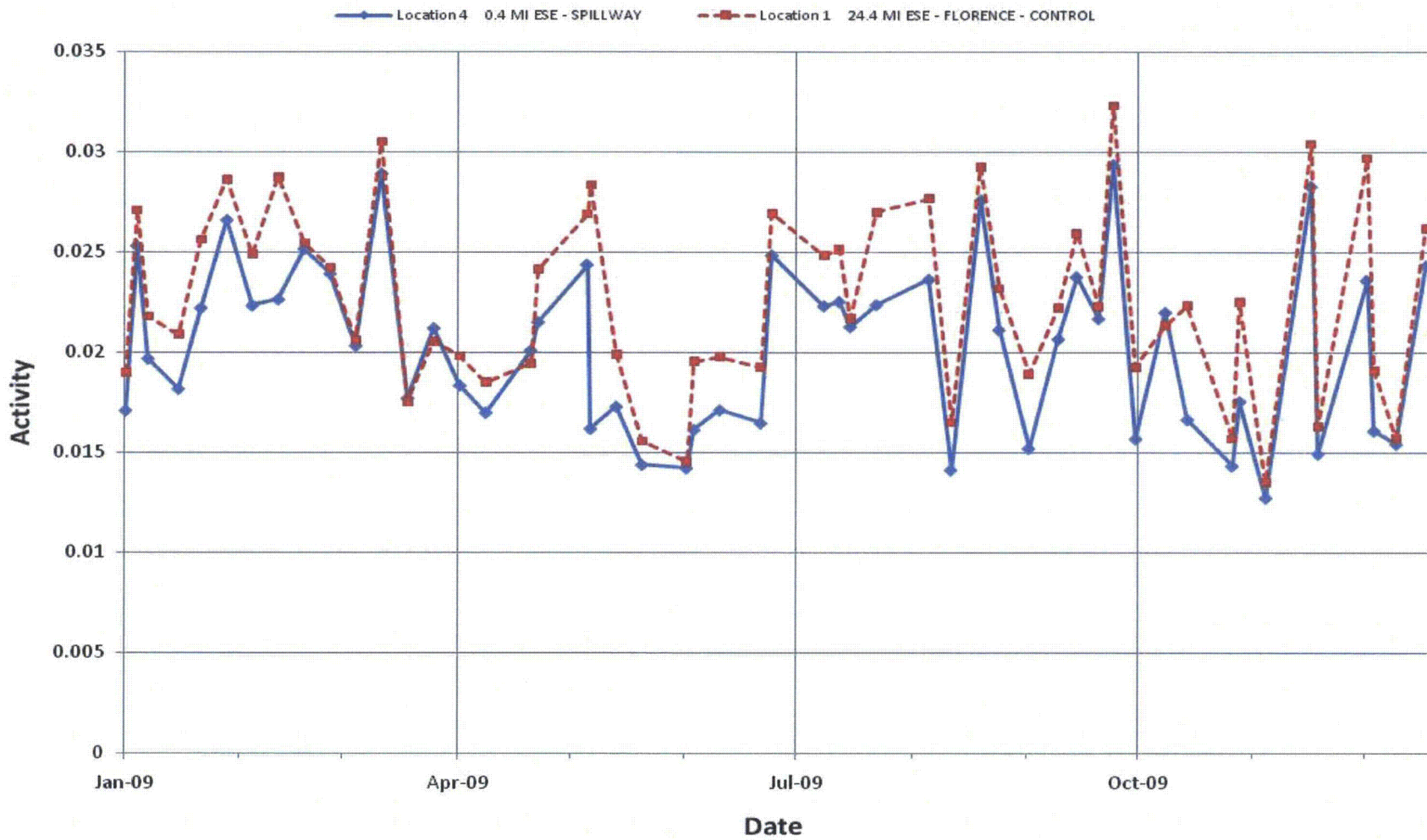
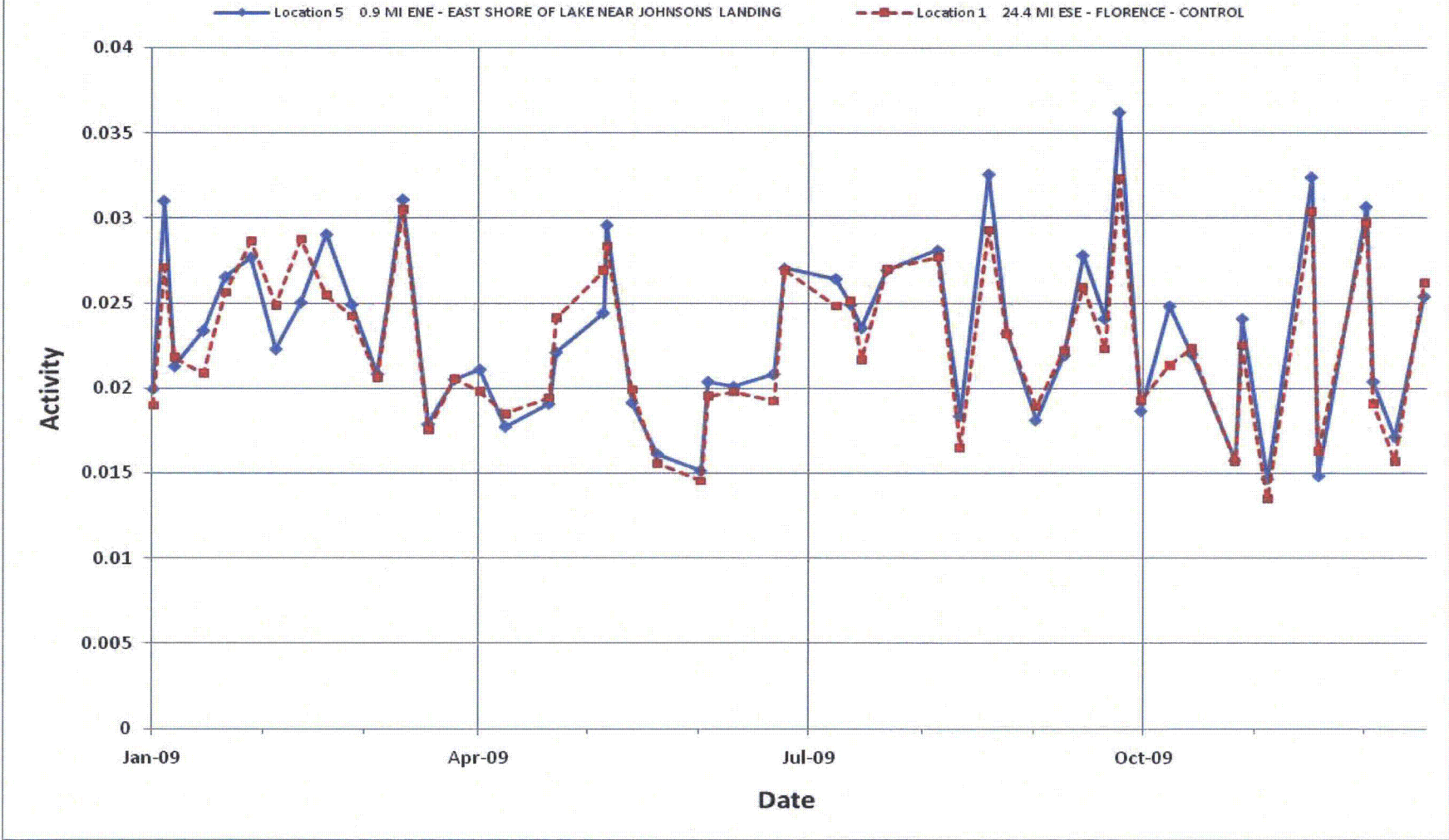


Figure 6 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

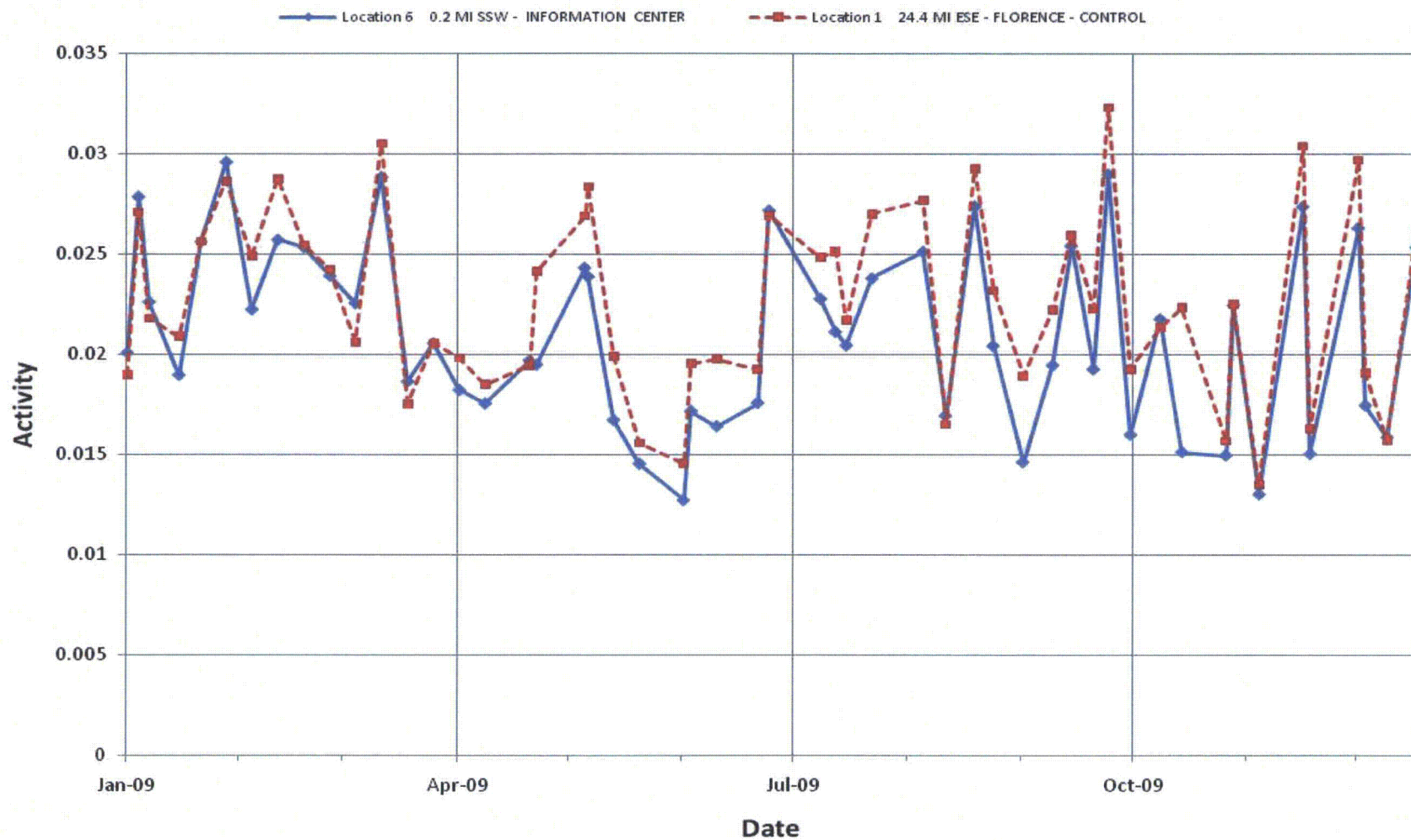




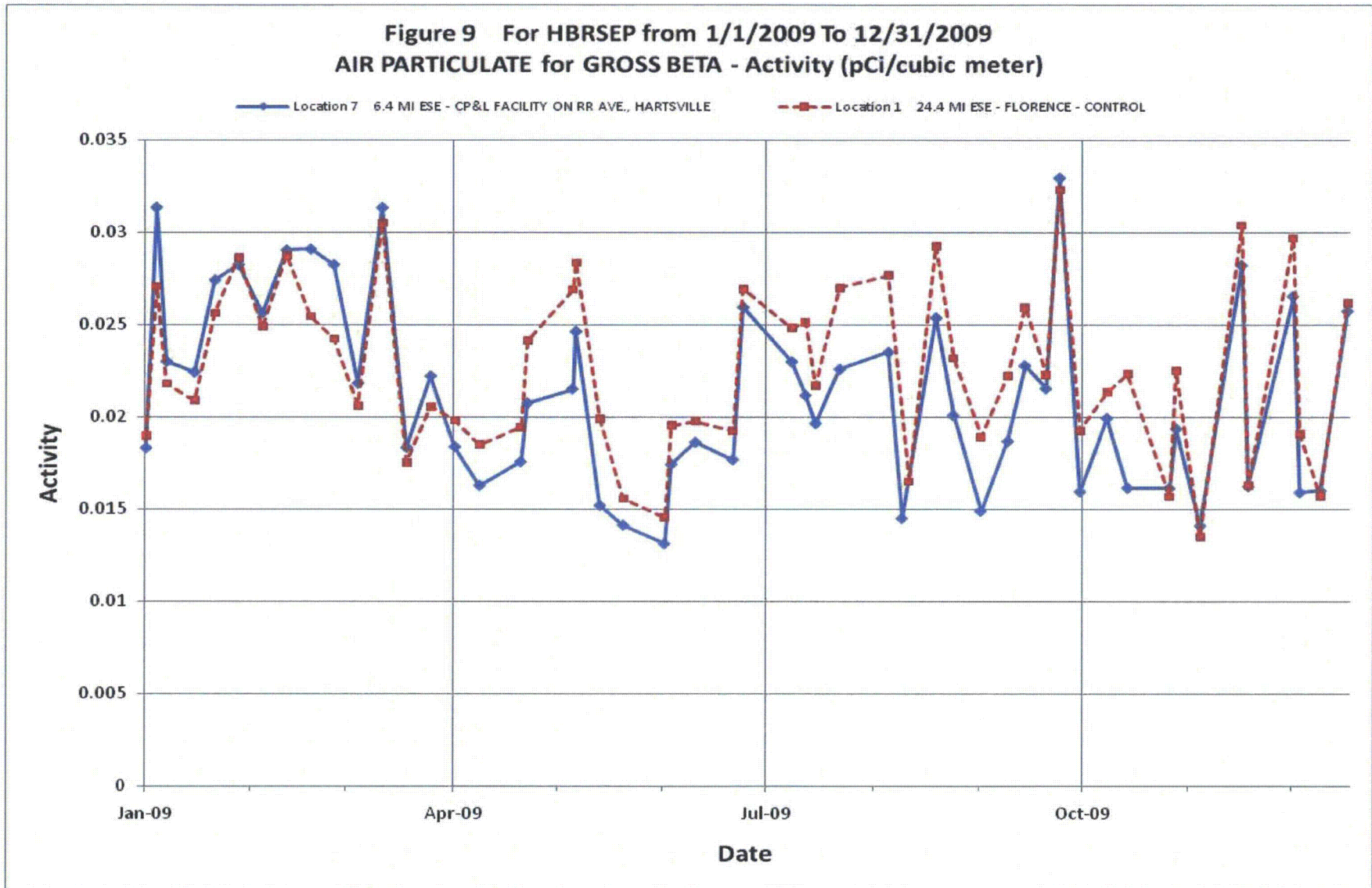
**Figure 7 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**



**Figure 8 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**

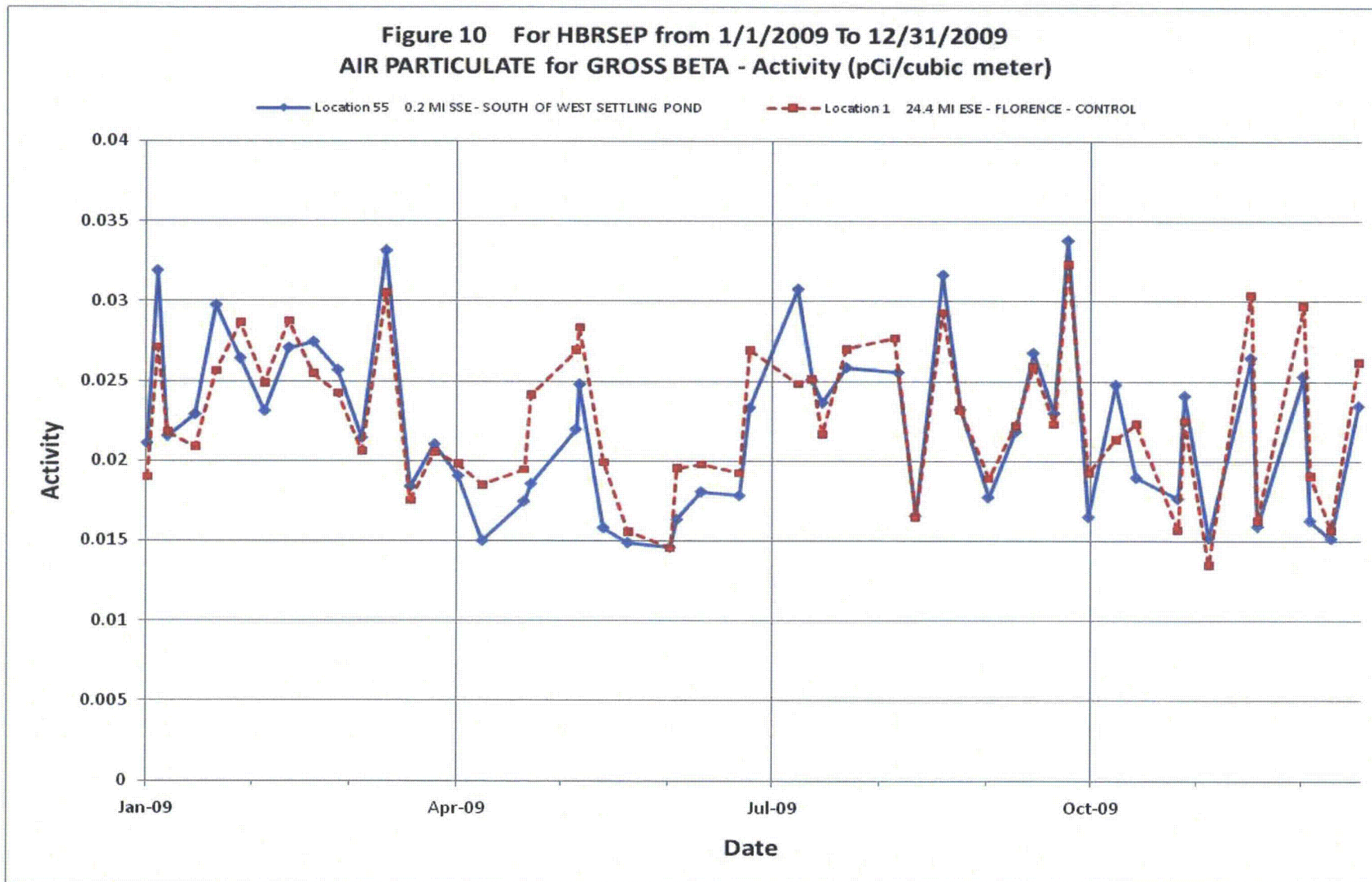


**Figure 9 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**

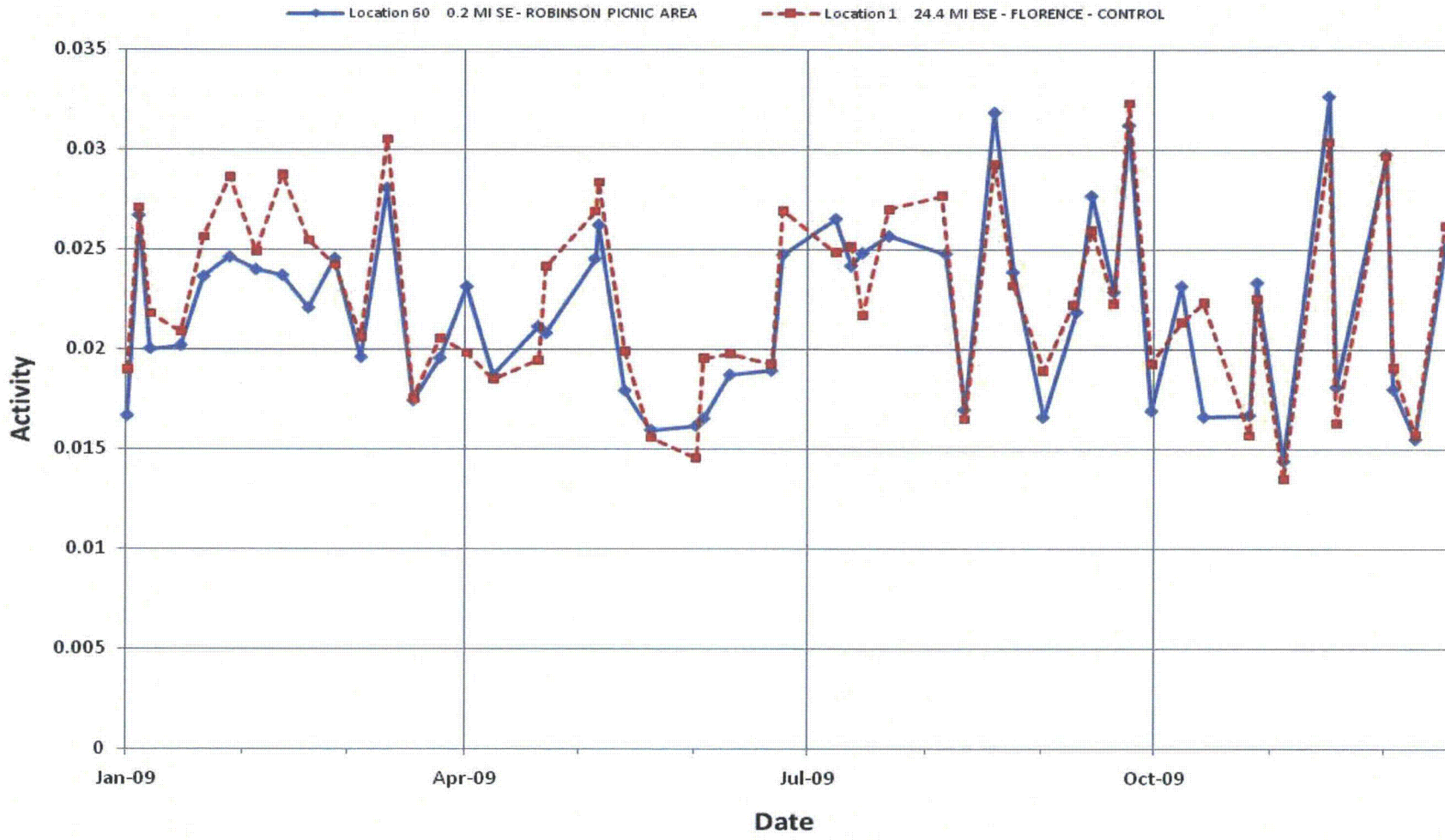




**Figure 10 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**

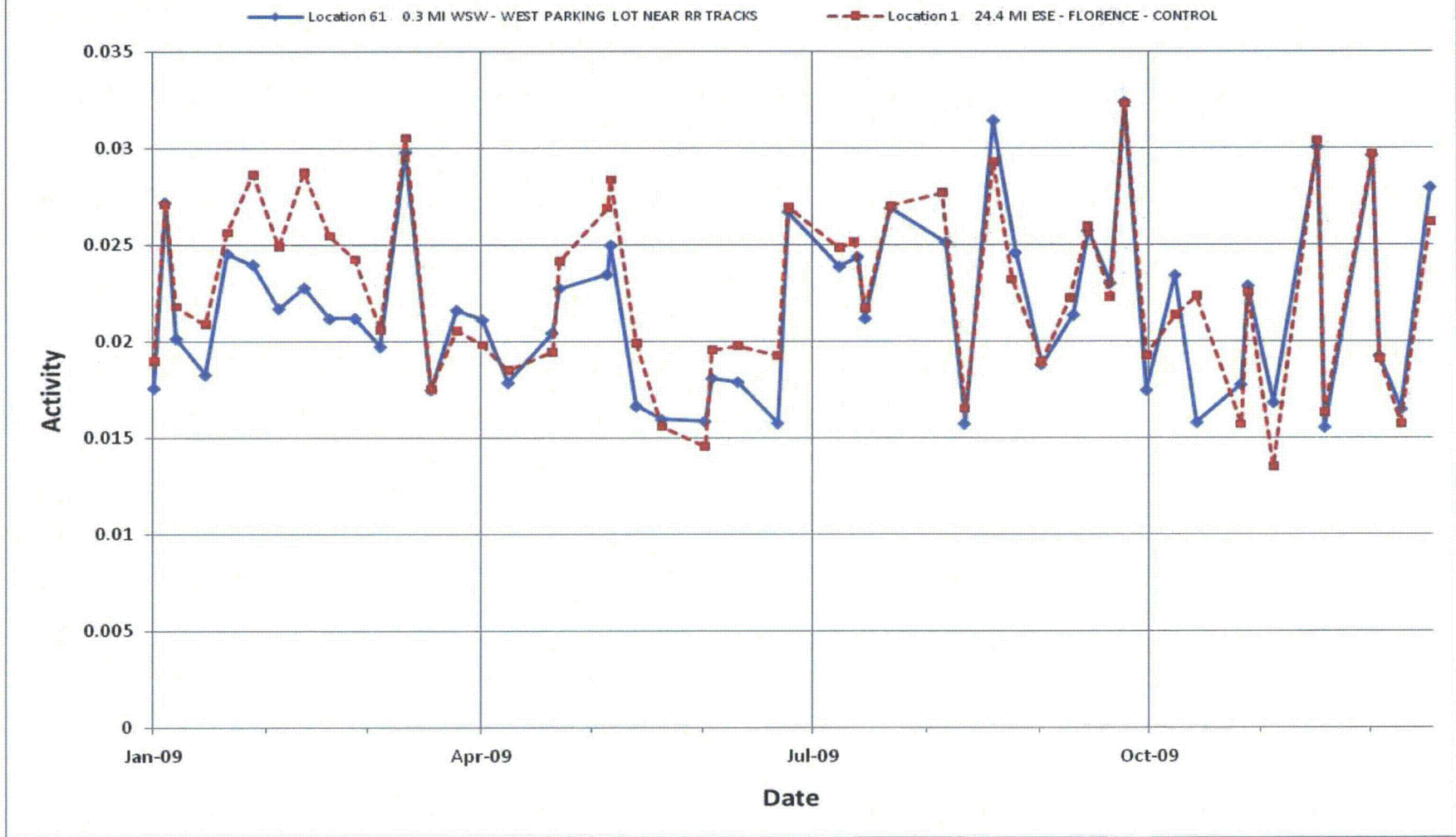


**Figure 11 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**





**Figure 12 For HBRSEP from 1/1/2009 To 12/31/2009  
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)**



**Figure 13 RNP 2009 Surface Water Tritium**

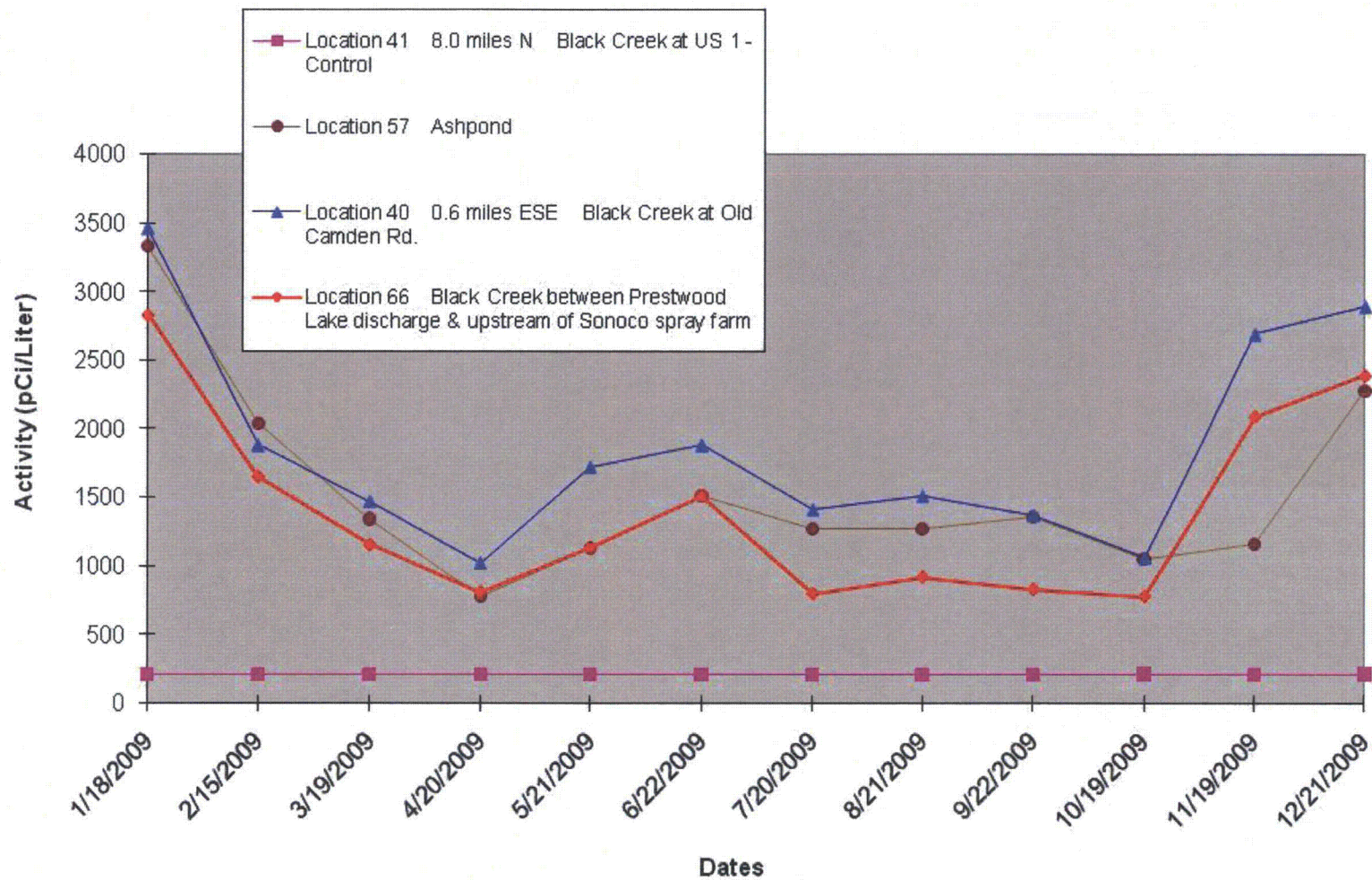
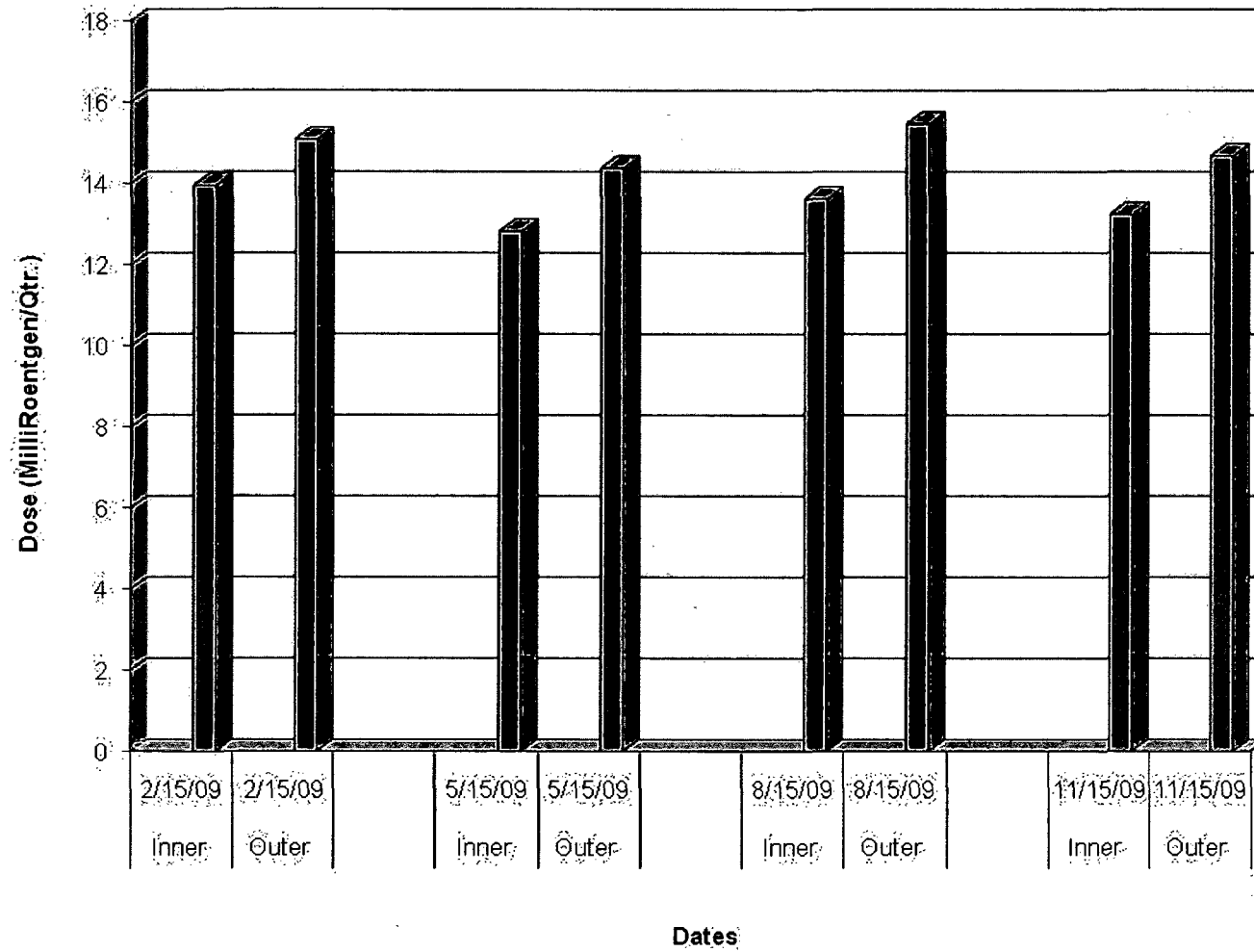


Figure 14 RNP 2009 TLD Averages for Inner and Outer Ring Locations



## **HBRSEP (RNP)**

### **TLD Report**

- 8 pages

### **Analysis Report**

- 45 pages

### **Gamma Isotopic Report**

- 81 pages

# **2009 HBRSEP (RNP)**

## **Radiological Environmental Monitoring TLD Report**

### **Comments**

- All RNP Environmental TLDs were present in 2009.

## ***RNP Radiological Environmental Monitoring TLD Report***

*Dose: mR/std. qtr.*

<i><b>TLD</b></i>	<i><b>TLD Location Description</b></i>	<i><b>Sample Date</b></i>	<i><b>Dose</b></i>	<i><b>2 Sigma Error</b></i>
1	24.4 MI ESE - FLORENCE - CONTROL	2/15/2009	12.7	2.8
1	24.4 MI ESE - FLORENCE - CONTROL	5/15/2009	11.9	2.1
1	24.4 MI ESE - FLORENCE - CONTROL	8/15/2009	13	3.6
1	24.4 MI ESE - FLORENCE - CONTROL	11/15/2009	12.3	1.3
2	0.2 MI S - INFORMATION CENTER	2/15/2009	12.5	1.9
2	0.2 MI S - INFORMATION CENTER	5/15/2009	11.1	2.4
2	0.2 MI S - INFORMATION CENTER	8/15/2009	12.4	2.5
2	0.2 MI S - INFORMATION CENTER	11/15/2009	11.7	2.8
3	0.5 MI N - MICROWAVE TOWER	2/15/2009	14.8	2.5
3	0.5 MI N - MICROWAVE TOWER	5/15/2009	12.9	2.5
3	0.5 MI N - MICROWAVE TOWER	8/15/2009	14.2	3.1
3	0.5 MI N - MICROWAVE TOWER	11/15/2009	13.1	1.3
4	0.4 MI ESE - SPILLWAY	2/15/2009	10.2	1.9
4	0.4 MI ESE - SPILLWAY	5/15/2009	9.7	2.6
4	0.4 MI ESE - SPILLWAY	8/15/2009	10.2	2.3
4	0.4 MI ESE - SPILLWAY	11/15/2009	10.1	0.7
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA	2/15/2009	14.5	2
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA	5/15/2009	11.7	2.3
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA	8/15/2009	14.5	2.3
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA	11/15/2009	12.6	1.6
6	0.2 MI SSW - INFORMATION CENTER	2/15/2009	12.5	2.2
6	0.2 MI SSW - INFORMATION CENTER	5/15/2009	12.7	2.3

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
6	0.2 MI SSW - INFORMATION CENTER	8/15/2009	12.3	3.1
6	0.2 MI SSW - INFORMATION CENTER	11/15/2009	13.1	1.5
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE	2/15/2009	16	2.9
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE	5/15/2009	11.9	2.2
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE	8/15/2009	14.5	2
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE	11/15/2009	13	1.2
8	0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY	2/15/2009	10.7	2.6
8	0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY	5/15/2009	10.4	2.6
8	0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY	8/15/2009	10.7	2.5
8	0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY	11/15/2009	10.1	1
9	1.0 MI S - TRANSMISSION RIGHT-OF-WAY	2/15/2009	11.6	2.5
9	1.0 MI S - TRANSMISSION RIGHT-OF-WAY	5/15/2009	10.3	2.3
9	1.0 MI S - TRANSMISSION RIGHT-OF-WAY	8/15/2009	11.1	2.1
9	1.0 MI S - TRANSMISSION RIGHT-OF-WAY	11/15/2009	10.9	0.9
10	1.0 MI WSW - CLYDE CHURCH OF GOD	2/15/2009	13.3	2.6
10	1.0 MI WSW - CLYDE CHURCH OF GOD	5/15/2009	11.9	2.2
10	1.0 MI WSW - CLYDE CHURCH OF GOD	8/15/2009	13.1	2.3
10	1.0 MI WSW - CLYDE CHURCH OF GOD	11/15/2009	12.4	1.1
11	1.0 MI SW - OLD CAMDEN RD	2/15/2009	11.5	2.1
11	1.0 MI SW - OLD CAMDEN RD	5/15/2009	10.6	2.2
11	1.0 MI SW - OLD CAMDEN RD	8/15/2009	10.7	2.6
11	1.0 MI SW - OLD CAMDEN RD	11/15/2009	11.1	0.6
12	1.2 MI SSW-OFF OF OLD CAMDEN RD	2/15/2009	14.4	1.8
12	1.2 MI SSW-OFF OF OLD CAMDEN RD	5/15/2009	14	2.5

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
12	1.2 MI SSW-OFF OF OLD CAMDEN RD	8/15/2009	14.1	2.2
12	1.2 MI SSW-OFF OF OLD CAMDEN RD	11/15/2009	14.6	0.9
13	0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS	2/15/2009	13.4	2.2
13	0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS	5/15/2009	11.3	2.3
13	0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS	8/15/2009	12.5	2.2
13	0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS	11/15/2009	11.8	1.7
14	0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE	2/15/2009	15.6	2.7
14	0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE	5/15/2009	14.4	2.8
14	0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE	8/15/2009	14.9	3.6
14	0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE	11/15/2009	15.2	1
15	0.7 MI NW - TRANSMISSION RIGHT-OF-WAY	2/15/2009	12.6	1.8
15	0.7 MI NW - TRANSMISSION RIGHT-OF-WAY	5/15/2009	12.3	3.2
15	0.7 MI NW - TRANSMISSION RIGHT-OF-WAY	8/15/2009	12.3	2.1
15	0.7 MI NW - TRANSMISSION RIGHT-OF-WAY	11/15/2009	12.3	1
16	1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI	2/15/2009	12.7	1.9
16	1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI	5/15/2009	11.8	2.7
16	1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI	8/15/2009	13.3	2.7
16	1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI	11/15/2009	12.2	0.7
17	1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU	2/15/2009	16.9	2.6
17	1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU	5/15/2009	14.9	2.2
17	1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU	8/15/2009	15.8	2.1
17	1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU	11/15/2009	15.6	2.4
18	0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE	2/15/2009	15.4	2.5
18	0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE	5/15/2009	15.6	2.8



*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
18	0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE	8/15/2009	16.2	2.4
18	0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE	11/15/2009	15.3	0.7
19	1.0 MI E - OLD CAMDEN RD (#S-16-23)	2/15/2009	14.1	1.9
19	1.0 MI E - OLD CAMDEN RD (#S-16-23)	5/15/2009	12.3	2.4
19	1.0 MI E - OLD CAMDEN RD (#S-16-23)	8/15/2009	13.3	2.7
19	1.0 MI E - OLD CAMDEN RD (#S-16-23)	11/15/2009	13	1
20	1.0 MI ENE - NEW MARKET RD (#S-16-39)	2/15/2009	15.9	1.9
20	1.0 MI ENE - NEW MARKET RD (#S-16-39)	5/15/2009	13.1	2.7
20	1.0 MI ENE - NEW MARKET RD (#S-16-39)	8/15/2009	15	2.5
20	1.0 MI ENE - NEW MARKET RD (#S-16-39)	11/15/2009	12.9	1.4
21	1.4 MI NE - NEW MARKET RD (#S-16-39)	2/15/2009	14.6	1.9
21	1.4 MI NE - NEW MARKET RD (#S-16-39)	5/15/2009	11.3	2.2
21	1.4 MI NE - NEW MARKET RD (#S-16-39)	8/15/2009	14	2.2
21	1.4 MI NE - NEW MARKET RD (#S-16-39)	11/15/2009	12	0.8
22	1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA	2/15/2009	12.4	2.1
22	1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA	5/15/2009	11.6	2.6
22	1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA	8/15/2009	11.8	2.4
22	1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA	11/15/2009	12	1.1
23	1.0 MI ESE - NEW MARKET RD (#S-16-39)	2/15/2009	14.8	1.9
23	1.0 MI ESE - NEW MARKET RD (#S-16-39)	5/15/2009	14.9	2.8
23	1.0 MI ESE - NEW MARKET RD (#S-16-39)	8/15/2009	14.8	2.3
23	1.0 MI ESE - NEW MARKET RD (#S-16-39)	11/15/2009	14.9	0.8
24	4.6 MI NW - SOWELL RD (#S-13-711)	2/15/2009	16.2	2.4
24	4.6 MI NW - SOWELL RD (#S-13-711)	5/15/2009	16	3.1

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
24	4.6 MI NW - SOWELL RD (#S-13-711)	8/15/2009	16	2.8
24	4.6 MI NW - SOWELL RD (#S-13-711)	11/15/2009	16.7	2.1
25	4.0 MI NNW - LAKE ROBINSON RD (#S-13-346)	2/15/2009	14.1	1.9
25	4.0 MI NNW - LAKE ROBINSON RD (#S-13-346)	5/15/2009	13.7	2.4
25	4.0 MI NNW - LAKE ROBINSON RD (#S-13-346)	8/15/2009	14.4	2.8
25	4.0 MI NNW - LAKE ROBINSON RD (#S-13-346)	11/15/2009	13.8	1.3
26	5.0 MI N - LAKE ROBINSON RD (#S-13-346)	2/15/2009	14.3	2
26	5.0 MI N - LAKE ROBINSON RD (#S-13-346)	5/15/2009	14	2.2
26	5.0 MI N - LAKE ROBINSON RD (#S-13-346)	8/15/2009	14.9	2.3
26	5.0 MI N - LAKE ROBINSON RD (#S-13-346)	11/15/2009	14.2	0.7
27	5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763)	2/15/2009	12.2	2.1
27	5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763)	5/15/2009	11.4	2.3
27	5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763)	8/15/2009	12.1	2.2
27	5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763)	11/15/2009	11.6	1
28	4.3 MI NE - NEW MARKET RD (#S-13-39)	2/15/2009	16.7	2.3
28	4.3 MI NE - NEW MARKET RD (#S-13-39)	5/15/2009	17.1	2.4
28	4.3 MI NE - NEW MARKET RD (#S-13-39)	8/15/2009	17.5	3.6
28	4.3 MI NE - NEW MARKET RD (#S-13-39)	11/15/2009	17.8	1.1
29	4.0 MI ENE - RUBY RD (#S-16-20)	2/15/2009	12.9	2.1
29	4.0 MI ENE - RUBY RD (#S-16-20)	5/15/2009	10.1	2.4
29	4.0 MI ENE - RUBY RD (#S-16-20)	8/15/2009	14	4.9
29	4.0 MI ENE - RUBY RD (#S-16-20)	11/15/2009	10.6	1.9
30	4.4 MI E - RUBY RD (#S-16-20)	2/15/2009	14.9	2.6
30	4.4 MI E - RUBY RD (#S-16-20)	5/15/2009	13.6	2.2

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
30	4.4 MI E - RUBY RD (#S-16-20)	8/15/2009	14	4.5
30	4.4 MI E - RUBY RD (#S-16-20)	11/15/2009	13.7	0.9
31	4.6 MI ESE - ON LAKESHORE DRIVE	2/15/2009	16.8	3.4
31	4.6 MI ESE - ON LAKESHORE DRIVE	5/15/2009	13.2	2.4
31	4.6 MI ESE - ON LAKESHORE DRIVE	8/15/2009	16.3	2.9
31	4.6 MI ESE - ON LAKESHORE DRIVE	11/15/2009	13.8	1.3
32	4.0 MI SE - TRANSMISSION RIGHT-OF-WAY	2/15/2009	6.1	2.4
32	4.0 MI SE - TRANSMISSION RIGHT-OF-WAY	5/15/2009	12.5	2.3
32	4.0 MI SE - TRANSMISSION RIGHT-OF-WAY	8/15/2009	12.4	2.1
32	4.0 MI SE - TRANSMISSION RIGHT-OF-WAY	11/15/2009	12.8	1
33	4.5 MI SSE- ON BAY RD (#S-16-493)	2/15/2009	13.9	2
33	4.5 MI SSE- ON BAY RD (#S-16-493)	5/15/2009	13.6	2.3
33	4.5 MI SSE- ON BAY RD (#S-16-493)	8/15/2009	13.9	3.3
33	4.5 MI SSE- ON BAY RD (#S-16-493)	11/15/2009	13.9	0.6
34	4.7 MI S - ON KELLYBELL RD (#S-16-772)	2/15/2009	10.8	1.9
34	4.7 MI S - ON KELLYBELL RD (#S-16-772)	5/15/2009	9.7	2.3
34	4.7 MI S - ON KELLYBELL RD (#S-16-772)	8/15/2009	10.4	2.7
34	4.7 MI S - ON KELLYBELL RD (#S-16-772)	11/15/2009	10	1.3
35	4.5 MI SSW - KELLY BRIDGE RD (#S-31-51)	2/15/2009	20	2.9
35	4.5 MI SSW - KELLY BRIDGE RD (#S-31-51)	5/15/2009	19.7	3.7
35	4.5 MI SSW - KELLY BRIDGE RD (#S-31-51)	8/15/2009	19.6	2.8
35	4.5 MI SSW - KELLY BRIDGE RD (#S-31-51)	11/15/2009	19.6	2
36	5.0 MI SW - ON KINGSTON DRIVE	2/15/2009	18.5	3.5
36	5.0 MI SW - ON KINGSTON DRIVE	5/15/2009	18.7	3

*Dose: mR/std. qtr.*

<b>TLD</b>	<b>TLD Location Description</b>	<b>Sample Date</b>	<b>Dose</b>	<b>2 Sigma Error</b>
36	5.0 MI SW - ON KINGSTON DRIVE	8/15/2009	18.5	4.1
36	5.0 MI SW - ON KINGSTON DRIVE	11/15/2009	19.2	2.7
37	5.0 MI WSW - PINE CONE RD	2/15/2009	20.7	4.4
37	5.0 MI WSW - PINE CONE RD	5/15/2009	19	2.5
37	5.0 MI WSW - PINE CONE RD	8/15/2009	20.9	2.4
37	5.0 MI WSW - PINE CONE RD	11/15/2009	18.4	2.1
38	4.9 MI W - AT UNION CHURCH RD	2/15/2009	15.2	2.3
38	4.9 MI W - AT UNION CHURCH RD	5/15/2009	15	2.3
38	4.9 MI W - AT UNION CHURCH RD	8/15/2009	14.1	3.3
38	4.9 MI W - AT UNION CHURCH RD	11/15/2009	15.2	0.9
39	5.1 MI WNW - KING'S POND RD	2/15/2009	14.1	2.1
39	5.1 MI WNW - KING'S POND RD	5/15/2009	13.7	2.4
39	5.1 MI WNW - KING'S POND RD	8/15/2009	13.9	3.4
39	5.1 MI WNW - KING'S POND RD	11/15/2009	14.5	1.6
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	2/15/2009	14.8	2.2
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/15/2009	13.6	2.3
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/15/2009	14.5	3.1
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/15/2009	14.4	1
56	0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI	2/15/2009	17	1.9
56	0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI	5/15/2009	15.2	2.3
56	0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI	8/15/2009	19.4	3.1
56	0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI	11/15/2009	15.2	1.6
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS	2/15/2009	18.4	2
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS	5/15/2009	17.8	3

*Dose: mR/std. qtr.*

<b><i>TLD</i></b>	<b><i>TLD Location Description</i></b>	<b><i>Sample Date</i></b>	<b><i>Dose</i></b>	<b><i>2 Sigma Error</i></b>
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS	8/15/2009	17.7	2.2
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS	11/15/2009	17.5	2.3
65	NORTHWEST OF THE 24P-ISFSI 0.30 WNW	2/15/2009	18.4	2.5
65	NORTHWEST OF THE 24P-ISFSI 0.30 WNW	5/15/2009	17.5	3.1
65	NORTHWEST OF THE 24P-ISFSI 0.30 WNW	8/15/2009	17.9	2.8
65	NORTHWEST OF THE 24P-ISFSI 0.30 WNW	11/15/2009	18.6	2.5

# 2009 HBRSEP (RNP)

## Radiological Environmental Monitoring Analysis Report

### Comments

- Efficiency values are not included for AC samples requiring radioiodine analysis (I-131), because gamma software does not report these values.
- The Less than LLD (<LLD) represents that no activity was present, but lists the LLD values.
- There are no 2 sigma error values reported when activity is <LLD.

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
1	24.4 MI ESE - FLORENCE - CONTROL	1/5/2009	594.5	3.74E-01	2.18E-02	2.10E-03	1.55E-03
1	24.4 MI ESE - FLORENCE - CONTROL	1/13/2009	658.9	3.74E-01	2.09E-02	1.91E-03	1.25E-03
1	24.4 MI ESE - FLORENCE - CONTROL	1/19/2009	492.2	3.74E-01	2.56E-02	2.50E-03	1.81E-03
1	24.4 MI ESE - FLORENCE - CONTROL	1/26/2009	580.2	3.74E-01	2.86E-02	2.37E-03	1.51E-03
1	24.4 MI ESE - FLORENCE - CONTROL	2/1/2009	486.7	3.74E-01	2.49E-02	2.45E-03	1.69E-03
1	24.4 MI ESE - FLORENCE - CONTROL	2/9/2009	674.3	3.74E-01	2.88E-02	2.18E-03	1.34E-03
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	586.5	3.74E-01	2.55E-02	2.25E-03	1.54E-03
1	24.4 MI ESE - FLORENCE - CONTROL	2/23/2009	579.4	3.74E-01	2.42E-02	2.24E-03	1.64E-03
1	24.4 MI ESE - FLORENCE - CONTROL	3/2/2009	576.1	3.74E-01	2.06E-02	2.08E-03	1.53E-03
1	24.4 MI ESE - FLORENCE - CONTROL	3/9/2009	576	3.74E-01	3.05E-02	2.45E-03	1.57E-03
1	24.4 MI ESE - FLORENCE - CONTROL	3/16/2009	557.9	3.74E-01	1.75E-02	1.96E-03	1.49E-03
1	24.4 MI ESE - FLORENCE - CONTROL	3/23/2009	582.3	3.74E-01	2.06E-02	2.06E-03	1.52E-03
1	24.4 MI ESE - FLORENCE - CONTROL	3/30/2009	606.5	3.74E-01	1.98E-02	1.97E-03	1.42E-03
1	24.4 MI ESE - FLORENCE - CONTROL	4/6/2009	583.4	3.74E-01	1.85E-02	2.02E-03	1.66E-03
1	24.4 MI ESE - FLORENCE - CONTROL	4/13/2009	559.6	3.74E-01	1.95E-02	2.07E-03	1.59E-03
1	24.4 MI ESE - FLORENCE - CONTROL	4/20/2009	596.7	3.74E-01	2.41E-02	2.19E-03	1.55E-03
1	24.4 MI ESE - FLORENCE - CONTROL	4/28/2009	681.8	3.74E-01	2.69E-02	2.07E-03	1.14E-03
1	24.4 MI ESE - FLORENCE - CONTROL	5/4/2009	517.1	3.74E-01	2.84E-02	2.53E-03	1.72E-03
1	24.4 MI ESE - FLORENCE - CONTROL	5/11/2009	599.7	3.74E-01	1.99E-02	1.97E-03	1.38E-03
1	24.4 MI ESE - FLORENCE - CONTROL	5/18/2009	604.9	3.74E-01	1.56E-02	1.81E-03	1.47E-03
1	24.4 MI ESE - FLORENCE - CONTROL	5/25/2009	593	3.74E-01	1.45E-02	1.79E-03	1.50E-03
1	24.4 MI ESE - FLORENCE - CONTROL	6/1/2009	581.8	3.74E-01	1.95E-02	1.99E-03	1.39E-03
1	24.4 MI ESE - FLORENCE - CONTROL	6/8/2009	608.8	3.74E-01	1.98E-02	1.98E-03	1.45E-03
1	24.4 MI ESE - FLORENCE - CONTROL	6/16/2009	731.8	3.74E-01	1.93E-02	1.77E-03	1.27E-03
1	24.4 MI ESE - FLORENCE - CONTROL	6/22/2009	522.8	3.74E-01	2.70E-02	2.45E-03	1.66E-03
1	24.4 MI ESE - FLORENCE - CONTROL	6/29/2009	613.7	3.74E-01	2.48E-02	2.16E-03	1.45E-03

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
1	24.4 MI ESE - FLORENCE - CONTROL	7/6/2009	586.1	3.74E-01	2.52E-02	2.26E-03	1.64E-03
1	24.4 MI ESE - FLORENCE - CONTROL	7/13/2009	613.9	3.74E-01	2.17E-02	2.06E-03	1.50E-03
1	24.4 MI ESE - FLORENCE - CONTROL	7/20/2009	648.5	3.74E-01	2.70E-02	2.19E-03	1.47E-03
1	24.4 MI ESE - FLORENCE - CONTROL	7/28/2009	701.8	3.68E-01	2.77E-02	2.12E-03	1.32E-03
1	24.4 MI ESE - FLORENCE - CONTROL	8/3/2009	495.4	3.68E-01	1.65E-02	2.21E-03	2.09E-03
1	24.4 MI ESE - FLORENCE - CONTROL	8/10/2009	616	3.68E-01	2.93E-02	2.35E-03	1.54E-03
1	24.4 MI ESE - FLORENCE - CONTROL	8/18/2009	705	3.68E-01	2.32E-02	1.96E-03	1.30E-03
1	24.4 MI ESE - FLORENCE - CONTROL	8/24/2009	529.2	3.68E-01	1.89E-02	2.17E-03	1.80E-03
1	24.4 MI ESE - FLORENCE - CONTROL	8/31/2009	616.9	3.68E-01	2.22E-02	2.08E-03	1.47E-03
1	24.4 MI ESE - FLORENCE - CONTROL	9/8/2009	732.8	3.68E-01	2.60E-02	2.01E-03	1.24E-03
1	24.4 MI ESE - FLORENCE - CONTROL	9/15/2009	583.9	3.68E-01	2.23E-02	2.16E-03	1.59E-03
1	24.4 MI ESE - FLORENCE - CONTROL	9/21/2009	527.9	3.68E-01	3.23E-02	2.67E-03	1.74E-03
1	24.4 MI ESE - FLORENCE - CONTROL	9/28/2009	642.6	3.68E-01	1.93E-02	1.92E-03	1.44E-03
1	24.4 MI ESE - FLORENCE - CONTROL	10/6/2009	740.6	3.68E-01	2.14E-02	1.83E-03	1.18E-03
1	24.4 MI ESE - FLORENCE - CONTROL	10/12/2009	476.8	3.68E-01	2.23E-02	2.46E-03	2.00E-03
1	24.4 MI ESE - FLORENCE - CONTROL	10/20/2009	689.7	3.68E-01	1.57E-02	1.72E-03	1.40E-03
1	24.4 MI ESE - FLORENCE - CONTROL	10/25/2009	432.6	3.68E-01	2.25E-02	2.63E-03	2.24E-03
1	24.4 MI ESE - FLORENCE - CONTROL	11/2/2009	664.4	3.68E-01	1.35E-02	1.63E-03	1.36E-03
1	24.4 MI ESE - FLORENCE - CONTROL	11/9/2009	632.7	3.68E-01	3.04E-02	2.36E-03	1.54E-03
1	24.4 MI ESE - FLORENCE - CONTROL	11/16/2009	569.6	3.68E-01	1.63E-02	1.94E-03	1.61E-03
1	24.4 MI ESE - FLORENCE - CONTROL	11/22/2009	543.8	3.68E-01	2.97E-02	2.52E-03	1.65E-03
1	24.4 MI ESE - FLORENCE - CONTROL	11/30/2009	694.6	3.68E-01	1.91E-02	1.80E-03	1.23E-03
1	24.4 MI ESE - FLORENCE - CONTROL	12/7/2009	594.9	3.68E-01	1.57E-02	1.87E-03	1.58E-03
1	24.4 MI ESE - FLORENCE - CONTROL	12/14/2009	597	3.68E-01	2.62E-02	2.28E-03	1.55E-03
1	24.4 MI ESE - FLORENCE - CONTROL	12/20/2009	510.3	3.68E-01	2.31E-02	2.33E-03	1.66E-03
1	24.4 MI ESE - FLORENCE - CONTROL	12/28/2009	666.9	3.68E-01	2.71E-02	2.15E-03	1.35E-03



# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
2	0.2 MI S - INFORMATION CENTER	1/5/2009	553	3.74E-01	2.33E-02	2.25E-03	1.66E-03
2	0.2 MI S - INFORMATION CENTER	1/13/2009	617.9	3.74E-01	2.37E-02	2.09E-03	1.33E-03
2	0.2 MI S - INFORMATION CENTER	1/19/2009	455.7	3.74E-01	2.98E-02	2.78E-03	1.96E-03
2	0.2 MI S - INFORMATION CENTER	1/26/2009	538.8	3.74E-01	2.94E-02	2.50E-03	1.63E-03
2	0.2 MI S - INFORMATION CENTER	2/1/2009	461	3.74E-01	2.53E-02	2.54E-03	1.79E-03
2	0.2 MI S - INFORMATION CENTER	2/9/2009	625	3.74E-01	2.92E-02	2.30E-03	1.45E-03
2	0.2 MI S - INFORMATION CENTER	2/16/2009	552	3.74E-01	2.85E-02	2.44E-03	1.64E-03
2	0.2 MI S - INFORMATION CENTER	2/23/2009	540.2	3.74E-01	2.60E-02	2.40E-03	1.76E-03
2	0.2 MI S - INFORMATION CENTER	3/2/2009	539.5	3.74E-01	2.36E-02	2.28E-03	1.64E-03
2	0.2 MI S - INFORMATION CENTER	3/9/2009	538.7	3.74E-01	3.48E-02	2.69E-03	1.68E-03
2	0.2 MI S - INFORMATION CENTER	3/16/2009	620	3.74E-01	1.71E-02	1.82E-03	1.34E-03
2	0.2 MI S - INFORMATION CENTER	3/23/2009	601.6	3.74E-01	2.21E-02	2.08E-03	1.47E-03
2	0.2 MI S - INFORMATION CENTER	3/30/2009	613.4	3.74E-01	2.09E-02	2.00E-03	1.41E-03
2	0.2 MI S - INFORMATION CENTER	4/6/2009	606.9	3.74E-01	1.74E-02	1.92E-03	1.59E-03
2	0.2 MI S - INFORMATION CENTER	4/13/2009	609.5	3.74E-01	1.81E-02	1.91E-03	1.46E-03
2	0.2 MI S - INFORMATION CENTER	4/20/2009	610.1	3.74E-01	2.00E-02	2.00E-03	1.52E-03
2	0.2 MI S - INFORMATION CENTER	4/28/2009	697.7	3.74E-01	2.32E-02	1.91E-03	1.11E-03
2	0.2 MI S - INFORMATION CENTER	5/4/2009	512.5	3.74E-01	2.65E-02	2.47E-03	1.74E-03
2	0.2 MI S - INFORMATION CENTER	5/11/2009	604.2	3.74E-01	1.79E-02	1.88E-03	1.37E-03
2	0.2 MI S - INFORMATION CENTER	5/18/2009	597.8	3.74E-01	1.41E-02	1.76E-03	1.49E-03
2	0.2 MI S - INFORMATION CENTER	5/25/2009	595.1	3.74E-01	1.56E-02	1.83E-03	1.50E-03
2	0.2 MI S - INFORMATION CENTER	6/1/2009	612	3.74E-01	1.66E-02	1.81E-03	1.32E-03
2	0.2 MI S - INFORMATION CENTER	6/8/2009	595.9	3.74E-01	1.91E-02	1.98E-03	1.48E-03
2	0.2 MI S - INFORMATION CENTER	6/16/2009	687.3	3.74E-01	1.86E-02	1.81E-03	1.36E-03
2	0.2 MI S - INFORMATION CENTER	6/22/2009	500.7	3.74E-01	2.62E-02	2.48E-03	1.74E-03
2	0.2 MI S - INFORMATION CENTER	6/29/2009	591.7	3.74E-01	2.34E-02	2.16E-03	1.51E-03

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
2	0.2 MI S - INFORMATION CENTER	7/6/2009	599.5	3.74E-01	2.65E-02	2.28E-03	1.60E-03
2	0.2 MI S - INFORMATION CENTER	7/13/2009	595.4	3.74E-01	2.16E-02	2.09E-03	1.54E-03
2	0.2 MI S - INFORMATION CENTER	7/20/2009	593.9	3.74E-01	2.71E-02	2.31E-03	1.60E-03
2	0.2 MI S - INFORMATION CENTER	7/28/2009	672.6	3.68E-01	2.70E-02	2.15E-03	1.38E-03
2	0.2 MI S - INFORMATION CENTER	8/3/2009	510.1	3.68E-01	1.65E-02	2.16E-03	2.03E-03
2	0.2 MI S - INFORMATION CENTER	8/10/2009	592.2	3.68E-01	3.18E-02	2.49E-03	1.60E-03
2	0.2 MI S - INFORMATION CENTER	8/18/2009	673.2	3.68E-01	2.23E-02	1.98E-03	1.37E-03
2	0.2 MI S - INFORMATION CENTER	8/24/2009	504.9	3.68E-01	1.68E-02	2.14E-03	1.89E-03
2	0.2 MI S - INFORMATION CENTER	8/31/2009	593.7	3.68E-01	2.26E-02	2.14E-03	1.53E-03
2	0.2 MI S - INFORMATION CENTER	9/8/2009	680.1	3.68E-01	2.63E-02	2.11E-03	1.33E-03
2	0.2 MI S - INFORMATION CENTER	9/15/2009	595.5	3.68E-01	2.58E-02	2.27E-03	1.56E-03
2	0.2 MI S - INFORMATION CENTER	9/22/2009	593	3.68E-01	3.37E-02	2.54E-03	1.55E-03
2	0.2 MI S - INFORMATION CENTER	9/28/2009	510.8	3.68E-01	1.64E-02	2.09E-03	1.81E-03
2	0.2 MI S - INFORMATION CENTER	10/6/2009	677.2	3.68E-01	2.39E-02	2.02E-03	1.29E-03
2	0.2 MI S - INFORMATION CENTER	10/12/2009	510.4	3.68E-01	1.64E-02	2.10E-03	1.87E-03
2	0.2 MI S - INFORMATION CENTER	10/20/2009	682.5	3.68E-01	1.70E-02	1.78E-03	1.42E-03
2	0.2 MI S - INFORMATION CENTER	10/25/2009	420.7	3.68E-01	2.34E-02	2.72E-03	2.30E-03
2	0.2 MI S - INFORMATION CENTER	11/2/2009	677.7	3.68E-01	1.33E-02	1.61E-03	1.34E-03
2	0.2 MI S - INFORMATION CENTER	11/9/2009	598.6	3.68E-01	3.01E-02	2.43E-03	1.63E-03
2	0.2 MI S - INFORMATION CENTER	11/16/2009	589.1	3.68E-01	1.67E-02	1.92E-03	1.56E-03
2	0.2 MI S - INFORMATION CENTER	11/22/2009	501.9	3.68E-01	2.63E-02	2.51E-03	1.79E-03
2	0.2 MI S - INFORMATION CENTER	11/30/2009	685.8	3.68E-01	1.92E-02	1.82E-03	1.24E-03
2	0.2 MI S - INFORMATION CENTER	12/7/2009	589.4	3.68E-01	1.32E-02	1.77E-03	1.60E-03
2	0.2 MI S - INFORMATION CENTER	12/14/2009	592.2	3.68E-01	2.43E-02	2.22E-03	1.57E-03
2	0.2 MI S - INFORMATION CENTER	12/20/2009	513	3.68E-01	2.49E-02	2.40E-03	1.65E-03
2	0.2 MI S - INFORMATION CENTER	12/28/2009	660.6	3.68E-01	2.51E-02	2.10E-03	1.36E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD	
3	0.5 MI N - MICROWAVE TOWER	1/5/2009	634.8	3.74E-01	1.94E-02	1.93E-03	1.45E-03
3	0.5 MI N - MICROWAVE TOWER	1/13/2009	705	3.74E-01	1.94E-02	1.78E-03	1.17E-03
3	0.5 MI N - MICROWAVE TOWER	1/19/2009	529.1	3.74E-01	2.38E-02	2.32E-03	1.68E-03
3	0.5 MI N - MICROWAVE TOWER	1/26/2009	621.1	3.74E-01	2.58E-02	2.18E-03	1.41E-03
3	0.5 MI N - MICROWAVE TOWER	2/1/2009	525.3	3.74E-01	2.26E-02	2.25E-03	1.57E-03
3	0.5 MI N - MICROWAVE TOWER	2/9/2009	717.2	3.74E-01	2.26E-02	1.90E-03	1.26E-03
3	0.5 MI N - MICROWAVE TOWER	2/16/2009	631.1	3.74E-01	2.41E-02	2.11E-03	1.43E-03
3	0.5 MI N - MICROWAVE TOWER	2/23/2009	616.5	3.74E-01	2.18E-02	2.07E-03	1.54E-03
3	0.5 MI N - MICROWAVE TOWER	3/2/2009	618.2	3.74E-01	1.96E-02	1.95E-03	1.43E-03
3	0.5 MI N - MICROWAVE TOWER	3/9/2009	615.9	3.74E-01	2.64E-02	2.22E-03	1.47E-03
3	0.5 MI N - MICROWAVE TOWER	3/16/2009	630	3.74E-01	1.53E-02	1.73E-03	1.32E-03
3	0.5 MI N - MICROWAVE TOWER	3/23/2009	613.2	3.74E-01	2.15E-02	2.04E-03	1.44E-03
3	0.5 MI N - MICROWAVE TOWER	3/30/2009	594.6	3.74E-01	2.33E-02	2.13E-03	1.45E-03
3	0.5 MI N - MICROWAVE TOWER	4/6/2009	652.6	3.74E-01	1.96E-02	1.92E-03	1.48E-03
3	0.5 MI N - MICROWAVE TOWER	4/13/2009	693	3.74E-01	2.04E-02	1.86E-03	1.29E-03
3	0.5 MI N - MICROWAVE TOWER	4/20/2009	699.9	3.74E-01	2.45E-02	2.01E-03	1.32E-03
3	0.5 MI N - MICROWAVE TOWER	4/28/2009	639.3	3.74E-01	2.82E-02	2.19E-03	1.22E-03
3	0.5 MI N - MICROWAVE TOWER	5/4/2009	485.7	3.74E-01	2.89E-02	2.64E-03	1.83E-03
3	0.5 MI N - MICROWAVE TOWER	5/11/2009	577.5	3.74E-01	1.74E-02	1.91E-03	1.43E-03
3	0.5 MI N - MICROWAVE TOWER	5/18/2009	574.9	3.74E-01	1.63E-02	1.90E-03	1.55E-03
3	0.5 MI N - MICROWAVE TOWER	5/25/2009	576.7	3.74E-01	1.53E-02	1.85E-03	1.54E-03
3	0.5 MI N - MICROWAVE TOWER	6/1/2009	602	3.74E-01	2.04E-02	1.98E-03	1.34E-03
3	0.5 MI N - MICROWAVE TOWER	6/8/2009	572.7	3.74E-01	1.98E-02	2.05E-03	1.54E-03
3	0.5 MI N - MICROWAVE TOWER	6/16/2009	677.6	3.74E-01	1.90E-02	1.84E-03	1.38E-03
3	0.5 MI N - MICROWAVE TOWER	6/22/2009	497.7	3.74E-01	2.98E-02	2.62E-03	1.75E-03
3	0.5 MI N - MICROWAVE TOWER	6/29/2009	592.9	3.74E-01	2.64E-02	2.26E-03	1.50E-03

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
3	0.5 MI N - MICROWAVE TOWER	7/6/2009	600.4	3.74E-01	2.65E-02	2.28E-03	1.60E-03
3	0.5 MI N - MICROWAVE TOWER	7/13/2009	562.6	3.74E-01	2.54E-02	2.31E-03	1.63E-03
3	0.5 MI N - MICROWAVE TOWER	7/20/2009	546.4	3.74E-01	2.95E-02	2.52E-03	1.74E-03
3	0.5 MI N - MICROWAVE TOWER	7/28/2009	628.5	3.68E-01	2.84E-02	2.29E-03	1.47E-03
3	0.5 MI N - MICROWAVE TOWER	8/3/2009	472	3.68E-01	1.94E-02	2.41E-03	2.19E-03
3	0.5 MI N - MICROWAVE TOWER	8/10/2009	558	3.68E-01	3.18E-02	2.58E-03	1.70E-03
3	0.5 MI N - MICROWAVE TOWER	8/18/2009	640.2	3.68E-01	2.44E-02	2.12E-03	1.44E-03
3	0.5 MI N - MICROWAVE TOWER	8/24/2009	470.6	3.68E-01	1.87E-02	2.33E-03	2.03E-03
3	0.5 MI N - MICROWAVE TOWER	8/31/2009	550.5	3.68E-01	2.30E-02	2.26E-03	1.64E-03
3	0.5 MI N - MICROWAVE TOWER	9/8/2009	627.3	3.68E-01	2.75E-02	2.25E-03	1.44E-03
3	0.5 MI N - MICROWAVE TOWER	9/15/2009	562.2	3.68E-01	2.85E-02	2.44E-03	1.65E-03
3	0.5 MI N - MICROWAVE TOWER	9/22/2009	555.6	3.68E-01	3.71E-02	2.75E-03	1.66E-03
3	0.5 MI N - MICROWAVE TOWER	9/28/2009	460.6	3.68E-01	1.81E-02	2.31E-03	2.01E-03
3	0.5 MI N - MICROWAVE TOWER	10/6/2009	627.8	3.68E-01	2.48E-02	2.14E-03	1.40E-03
3	0.5 MI N - MICROWAVE TOWER	10/12/2009	471.6	3.68E-01	1.83E-02	2.31E-03	2.02E-03
3	0.5 MI N - MICROWAVE TOWER	10/20/2009	616.6	3.68E-01	1.87E-02	1.97E-03	1.57E-03
3	0.5 MI N - MICROWAVE TOWER	10/25/2009	391.1	3.68E-01	2.29E-02	2.83E-03	2.48E-03
3	0.5 MI N - MICROWAVE TOWER	11/2/2009	621.7	3.68E-01	1.68E-02	1.85E-03	1.46E-03
3	0.5 MI N - MICROWAVE TOWER	11/9/2009	543.1	3.68E-01	3.37E-02	2.70E-03	1.79E-03
3	0.5 MI N - MICROWAVE TOWER	11/16/2009	550.1	3.68E-01	1.76E-02	2.04E-03	1.67E-03
3	0.5 MI N - MICROWAVE TOWER	11/22/2009	451.4	3.68E-01	3.31E-02	2.94E-03	1.99E-03
3	0.5 MI N - MICROWAVE TOWER	11/30/2009	615.9	3.68E-01	1.83E-02	1.90E-03	1.39E-03
3	0.5 MI N - MICROWAVE TOWER	12/7/2009	525	3.68E-01	1.88E-02	2.17E-03	1.79E-03
3	0.5 MI N - MICROWAVE TOWER	12/14/2009	531.9	3.68E-01	2.76E-02	2.49E-03	1.74E-03
3	0.5 MI N - MICROWAVE TOWER	12/20/2009	460.1	3.68E-01	2.66E-02	2.63E-03	1.84E-03
3	0.5 MI N - MICROWAVE TOWER	12/28/2009	591.1	3.68E-01	2.84E-02	2.36E-03	1.52E-03

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
4	0.4 MI ESE - SPILLWAY	1/5/2009	582.3	3.74E-01	1.97E-02	2.04E-03	1.58E-03
4	0.4 MI ESE - SPILLWAY	1/13/2009	653.3	3.74E-01	1.82E-02	1.81E-03	1.26E-03
4	0.4 MI ESE - SPILLWAY	1/19/2009	484.6	3.74E-01	2.22E-02	2.38E-03	1.84E-03
4	0.4 MI ESE - SPILLWAY	1/26/2009	569.4	3.74E-01	2.66E-02	2.32E-03	1.54E-03
4	0.4 MI ESE - SPILLWAY	2/1/2009	486.1	3.74E-01	2.23E-02	2.34E-03	1.70E-03
4	0.4 MI ESE - SPILLWAY	2/9/2009	658.3	3.74E-01	2.27E-02	2.00E-03	1.37E-03
4	0.4 MI ESE - SPILLWAY	2/16/2009	576.1	3.74E-01	2.52E-02	2.26E-03	1.57E-03
4	0.4 MI ESE - SPILLWAY	2/23/2009	571.7	3.74E-01	2.39E-02	2.25E-03	1.67E-03
4	0.4 MI ESE - SPILLWAY	3/2/2009	568.4	3.74E-01	2.03E-02	2.08E-03	1.56E-03
4	0.4 MI ESE - SPILLWAY	3/9/2009	567.1	3.74E-01	2.89E-02	2.42E-03	1.60E-03
4	0.4 MI ESE - SPILLWAY	3/16/2009	578.3	3.74E-01	1.77E-02	1.93E-03	1.44E-03
4	0.4 MI ESE - SPILLWAY	3/23/2009	561.9	3.74E-01	2.12E-02	2.13E-03	1.57E-03
4	0.4 MI ESE - SPILLWAY	3/30/2009	573.7	3.74E-01	1.83E-02	1.98E-03	1.50E-03
4	0.4 MI ESE - SPILLWAY	4/6/2009	574.2	3.74E-01	1.70E-02	1.97E-03	1.68E-03
4	0.4 MI ESE - SPILLWAY	4/13/2009	574.1	3.74E-01	2.01E-02	2.06E-03	1.55E-03
4	0.4 MI ESE - SPILLWAY	4/20/2009	672.8	3.74E-01	2.15E-02	1.94E-03	1.38E-03
4	0.4 MI ESE - SPILLWAY	4/28/2009	744.9	3.74E-01	2.44E-02	1.89E-03	1.04E-03
4	0.4 MI ESE - SPILLWAY	5/4/2009	739.5	3.74E-01	1.62E-02	1.63E-03	1.20E-03
4	0.4 MI ESE - SPILLWAY	5/11/2009	651.6	3.74E-01	1.73E-02	1.77E-03	1.27E-03
4	0.4 MI ESE - SPILLWAY	5/18/2009	649.3	3.74E-01	1.44E-02	1.68E-03	1.37E-03
4	0.4 MI ESE - SPILLWAY	5/25/2009	666.7	3.74E-01	1.42E-02	1.65E-03	1.34E-03
4	0.4 MI ESE - SPILLWAY	6/1/2009	694	3.74E-01	1.61E-02	1.66E-03	1.17E-03
4	0.4 MI ESE - SPILLWAY	6/8/2009	683.5	3.74E-01	1.71E-02	1.74E-03	1.29E-03
4	0.4 MI ESE - SPILLWAY	6/16/2009	789.6	3.74E-01	1.65E-02	1.59E-03	1.18E-03
4	0.4 MI ESE - SPILLWAY	6/22/2009	580.5	3.74E-01	2.49E-02	2.23E-03	1.50E-03
4	0.4 MI ESE - SPILLWAY	6/29/2009	693.6	3.74E-01	2.23E-02	1.93E-03	1.28E-03

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
4	0.4 MI ESE - SPILLWAY	704.4	3.74E-01	2.25E-02	1.94E-03	1.36E-03
4	0.4 MI ESE - SPILLWAY	702.4	3.74E-01	2.13E-02	1.88E-03	1.31E-03
4	0.4 MI ESE - SPILLWAY	706.9	3.74E-01	2.24E-02	1.93E-03	1.35E-03
4	0.4 MI ESE - SPILLWAY	716.5	3.68E-01	2.36E-02	1.96E-03	1.29E-03
4	0.4 MI ESE - SPILLWAY	543.6	3.68E-01	1.41E-02	1.97E-03	1.90E-03
4	0.4 MI ESE - SPILLWAY	639.6	3.68E-01	2.76E-02	2.24E-03	1.48E-03
4	0.4 MI ESE - SPILLWAY	748.4	3.68E-01	2.11E-02	1.82E-03	1.23E-03
4	0.4 MI ESE - SPILLWAY	519.8	3.68E-01	1.52E-02	2.03E-03	1.84E-03
4	0.4 MI ESE - SPILLWAY	639.4	3.68E-01	2.07E-02	1.98E-03	1.42E-03
4	0.4 MI ESE - SPILLWAY	718.6	3.68E-01	2.38E-02	1.96E-03	1.26E-03
4	0.4 MI ESE - SPILLWAY	636.3	3.68E-01	2.17E-02	2.03E-03	1.46E-03
4	0.4 MI ESE - SPILLWAY	631.2	3.68E-01	2.94E-02	2.31E-03	1.46E-03
4	0.4 MI ESE - SPILLWAY	544.3	3.68E-01	1.57E-02	1.97E-03	1.70E-03
4	0.4 MI ESE - SPILLWAY	711.9	3.68E-01	2.20E-02	1.89E-03	1.23E-03
4	0.4 MI ESE - SPILLWAY	540.9	3.68E-01	1.67E-02	2.04E-03	1.76E-03
4	0.4 MI ESE - SPILLWAY	705.2	3.68E-01	1.43E-02	1.64E-03	1.37E-03
4	0.4 MI ESE - SPILLWAY	444.8	3.68E-01	1.76E-02	2.37E-03	2.18E-03
4	0.4 MI ESE - SPILLWAY	712.9	3.68E-01	1.27E-02	1.53E-03	1.27E-03
4	0.4 MI ESE - SPILLWAY	625.6	3.68E-01	2.83E-02	2.31E-03	1.56E-03
4	0.4 MI ESE - SPILLWAY	616.2	3.68E-01	1.49E-02	1.79E-03	1.49E-03
4	0.4 MI ESE - SPILLWAY	519.6	3.68E-01	2.36E-02	2.36E-03	1.73E-03
4	0.4 MI ESE - SPILLWAY	711.7	3.68E-01	1.61E-02	1.66E-03	1.20E-03
4	0.4 MI ESE - SPILLWAY	609	3.68E-01	1.54E-02	1.83E-03	1.54E-03
4	0.4 MI ESE - SPILLWAY	608.8	3.68E-01	2.43E-02	2.18E-03	1.52E-03
4	0.4 MI ESE - SPILLWAY	531.4	3.68E-01	2.24E-02	2.25E-03	1.59E-03
4	0.4 MI ESE - SPILLWAY	684	3.68E-01	2.27E-02	1.97E-03	1.31E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	1/5/2009	582.4	3.74E-01	2.13E-02	2.11E-03	1.58E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	1/13/2009	641.2	3.74E-01	2.34E-02	2.03E-03	1.29E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	1/19/2009	493.1	3.74E-01	2.66E-02	2.53E-03	1.81E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	1/26/2009	574.5	3.74E-01	2.77E-02	2.35E-03	1.53E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/1/2009	486.7	3.74E-01	2.23E-02	2.34E-03	1.69E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/9/2009	662.1	3.74E-01	2.51E-02	2.08E-03	1.37E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/16/2009	576.6	3.74E-01	2.91E-02	2.40E-03	1.57E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/23/2009	572.5	3.74E-01	2.50E-02	2.28E-03	1.66E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	3/2/2009	570.9	3.74E-01	2.08E-02	2.10E-03	1.55E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	3/9/2009	572.6	3.74E-01	3.11E-02	2.48E-03	1.58E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	3/16/2009	581.4	3.74E-01	1.79E-02	1.93E-03	1.43E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	3/23/2009	570.3	3.74E-01	2.05E-02	2.09E-03	1.55E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	3/30/2009	573.5	3.74E-01	2.11E-02	2.09E-03	1.50E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	4/6/2009	572.7	3.74E-01	1.77E-02	2.01E-03	1.69E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	4/13/2009	577.6	3.74E-01	1.91E-02	2.02E-03	1.54E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	4/20/2009	572.8	3.74E-01	2.21E-02	2.16E-03	1.62E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	4/28/2009	681	3.74E-01	2.44E-02	1.98E-03	1.14E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/4/2009	485.6	3.74E-01	2.96E-02	2.67E-03	1.83E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/11/2009	582	3.74E-01	1.92E-02	1.98E-03	1.42E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/18/2009	571.7	3.74E-01	1.61E-02	1.90E-03	1.56E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/25/2009	574.1	3.74E-01	1.51E-02	1.85E-03	1.55E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	6/1/2009	592.8	3.74E-01	2.04E-02	2.00E-03	1.37E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	6/8/2009	589.5	3.74E-01	2.01E-02	2.03E-03	1.50E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	6/16/2009	661	3.74E-01	2.08E-02	1.94E-03	1.41E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	6/22/2009	486.7	3.74E-01	2.71E-02	2.56E-03	1.79E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	6/29/2009	575.2	3.74E-01	2.65E-02	2.31E-03	1.55E-03

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	7/6/2009	582.4	3.74E-01	2.49E-02	2.26E-03	1.65E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	7/13/2009	576.4	3.74E-01	2.36E-02	2.21E-03	1.59E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	7/20/2009	574.2	3.74E-01	2.70E-02	2.35E-03	1.66E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	7/28/2009	651.6	3.68E-01	2.81E-02	2.23E-03	1.42E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/3/2009	490.5	3.68E-01	1.84E-02	2.30E-03	2.11E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/10/2009	576.5	3.68E-01	3.26E-02	2.56E-03	1.64E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/18/2009	668.4	3.68E-01	2.33E-02	2.03E-03	1.38E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/24/2009	473.8	3.68E-01	1.81E-02	2.29E-03	2.01E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/31/2009	573.2	3.68E-01	2.20E-02	2.16E-03	1.58E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	9/8/2009	654	3.68E-01	2.78E-02	2.21E-03	1.38E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	9/15/2009	582.7	3.68E-01	2.41E-02	2.23E-03	1.59E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	9/22/2009	584.2	3.68E-01	3.62E-02	2.64E-03	1.57E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	9/28/2009	471.7	3.68E-01	1.87E-02	2.30E-03	1.96E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	10/6/2009	647.3	3.68E-01	2.48E-02	2.11E-03	1.35E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	10/12/2009	434.3	3.68E-01	2.20E-02	2.60E-03	2.20E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	10/20/2009	706.6	3.68E-01	1.58E-02	1.70E-03	1.37E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	10/25/2009	409.2	3.68E-01	2.41E-02	2.80E-03	2.37E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/2/2009	649	3.68E-01	1.47E-02	1.71E-03	1.40E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/9/2009	572.7	3.68E-01	3.24E-02	2.57E-03	1.70E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/16/2009	580.4	3.68E-01	1.48E-02	1.85E-03	1.58E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/22/2009	475.1	3.68E-01	3.07E-02	2.77E-03	1.89E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/30/2009	657.1	3.68E-01	2.04E-02	1.91E-03	1.30E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	12/7/2009	561.1	3.68E-01	1.71E-02	2.01E-03	1.68E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	12/14/2009	565.4	3.68E-01	2.54E-02	2.32E-03	1.64E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	12/20/2009	497.4	3.68E-01	2.40E-02	2.41E-03	1.70E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	12/28/2009	638.8	3.68E-01	2.37E-02	2.09E-03	1.41E-03



# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
6	0.2 MI SSW - INFORMATION CENTER	1/5/2009	568.7	3.74E-01	2.26E-02	2.19E-03	1.62E-03
6	0.2 MI SSW - INFORMATION CENTER	1/13/2009	630.1	3.74E-01	1.90E-02	1.88E-03	1.31E-03
6	0.2 MI SSW - INFORMATION CENTER	1/19/2009	481.2	3.74E-01	2.56E-02	2.53E-03	1.85E-03
6	0.2 MI SSW - INFORMATION CENTER	1/26/2009	560.3	3.74E-01	2.96E-02	2.45E-03	1.56E-03
6	0.2 MI SSW - INFORMATION CENTER	2/1/2009	474.2	3.74E-01	2.22E-02	2.37E-03	1.74E-03
6	0.2 MI SSW - INFORMATION CENTER	2/9/2009	645	3.74E-01	2.57E-02	2.14E-03	1.40E-03
6	0.2 MI SSW - INFORMATION CENTER	2/16/2009	551.9	3.74E-01	2.54E-02	2.33E-03	1.64E-03
6	0.2 MI SSW - INFORMATION CENTER	2/23/2009	556.5	3.74E-01	2.39E-02	2.29E-03	1.71E-03
6	0.2 MI SSW - INFORMATION CENTER	3/2/2009	553	3.74E-01	2.26E-02	2.21E-03	1.60E-03
6	0.2 MI SSW - INFORMATION CENTER	3/9/2009	612.2	3.74E-01	2.89E-02	2.31E-03	1.48E-03
6	0.2 MI SSW - INFORMATION CENTER	3/16/2009	667	3.74E-01	1.86E-02	1.81E-03	1.25E-03
6	0.2 MI SSW - INFORMATION CENTER	3/23/2009	637.3	3.74E-01	2.06E-02	1.95E-03	1.39E-03
6	0.2 MI SSW - INFORMATION CENTER	3/30/2009	667.7	3.74E-01	1.82E-02	1.80E-03	1.29E-03
6	0.2 MI SSW - INFORMATION CENTER	4/6/2009	670	3.74E-01	1.75E-02	1.81E-03	1.44E-03
6	0.2 MI SSW - INFORMATION CENTER	4/13/2009	668.9	3.74E-01	1.97E-02	1.87E-03	1.33E-03
6	0.2 MI SSW - INFORMATION CENTER	4/20/2009	674.6	3.74E-01	1.95E-02	1.87E-03	1.37E-03
6	0.2 MI SSW - INFORMATION CENTER	4/28/2009	769	3.74E-01	2.43E-02	1.85E-03	1.01E-03
6	0.2 MI SSW - INFORMATION CENTER	5/4/2009	543.5	3.74E-01	2.39E-02	2.29E-03	1.64E-03
6	0.2 MI SSW - INFORMATION CENTER	5/11/2009	632.7	3.74E-01	1.67E-02	1.78E-03	1.30E-03
6	0.2 MI SSW - INFORMATION CENTER	5/18/2009	620.7	3.74E-01	1.45E-02	1.74E-03	1.44E-03
6	0.2 MI SSW - INFORMATION CENTER	5/25/2009	617	3.74E-01	1.27E-02	1.66E-03	1.44E-03
6	0.2 MI SSW - INFORMATION CENTER	6/1/2009	645.6	3.74E-01	1.72E-02	1.77E-03	1.25E-03
6	0.2 MI SSW - INFORMATION CENTER	6/8/2009	616.8	3.74E-01	1.64E-02	1.82E-03	1.43E-03
6	0.2 MI SSW - INFORMATION CENTER	6/16/2009	731.9	3.74E-01	1.76E-02	1.71E-03	1.27E-03
6	0.2 MI SSW - INFORMATION CENTER	6/22/2009	534.7	3.74E-01	2.72E-02	2.42E-03	1.63E-03
6	0.2 MI SSW - INFORMATION CENTER	6/29/2009	634.3	3.74E-01	2.28E-02	2.05E-03	1.40E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
6	0.2 MI SSW - INFORMATION CENTER	7/6/2009	640.5	3.74E-01	2.11E-02	2.00E-03	1.50E-03
6	0.2 MI SSW - INFORMATION CENTER	7/13/2009	631.1	3.74E-01	2.05E-02	1.98E-03	1.46E-03
6	0.2 MI SSW - INFORMATION CENTER	7/20/2009	639.4	3.74E-01	2.38E-02	2.10E-03	1.49E-03
6	0.2 MI SSW - INFORMATION CENTER	7/28/2009	721.6	3.68E-01	2.51E-02	2.00E-03	1.28E-03
6	0.2 MI SSW - INFORMATION CENTER	8/3/2009	542.4	3.68E-01	1.69E-02	2.10E-03	1.90E-03
6	0.2 MI SSW - INFORMATION CENTER	8/10/2009	619.7	3.68E-01	2.74E-02	2.28E-03	1.53E-03
6	0.2 MI SSW - INFORMATION CENTER	8/18/2009	721.4	3.68E-01	2.04E-02	1.84E-03	1.27E-03
6	0.2 MI SSW - INFORMATION CENTER	8/24/2009	543	3.68E-01	1.46E-02	1.94E-03	1.76E-03
6	0.2 MI SSW - INFORMATION CENTER	8/31/2009	636.6	3.68E-01	1.95E-02	1.93E-03	1.42E-03
6	0.2 MI SSW - INFORMATION CENTER	9/8/2009	715.2	3.68E-01	2.54E-02	2.02E-03	1.27E-03
6	0.2 MI SSW - INFORMATION CENTER	9/15/2009	631.5	3.68E-01	1.93E-02	1.94E-03	1.47E-03
6	0.2 MI SSW - INFORMATION CENTER	9/22/2009	631	3.68E-01	2.90E-02	2.30E-03	1.46E-03
6	0.2 MI SSW - INFORMATION CENTER	9/28/2009	543.9	3.68E-01	1.60E-02	1.99E-03	1.70E-03
6	0.2 MI SSW - INFORMATION CENTER	10/6/2009	708.2	3.68E-01	2.18E-02	1.89E-03	1.24E-03
6	0.2 MI SSW - INFORMATION CENTER	10/12/2009	537.7	3.68E-01	1.51E-02	1.98E-03	1.78E-03
6	0.2 MI SSW - INFORMATION CENTER	10/20/2009	701.1	3.68E-01	1.49E-02	1.67E-03	1.38E-03
6	0.2 MI SSW - INFORMATION CENTER	10/25/2009	441.1	3.68E-01	2.25E-02	2.60E-03	2.19E-03
6	0.2 MI SSW - INFORMATION CENTER	11/2/2009	706.3	3.68E-01	1.30E-02	1.55E-03	1.28E-03
6	0.2 MI SSW - INFORMATION CENTER	11/9/2009	621.8	3.68E-01	2.74E-02	2.28E-03	1.57E-03
6	0.2 MI SSW - INFORMATION CENTER	11/16/2009	612.8	3.68E-01	1.50E-02	1.80E-03	1.50E-03
6	0.2 MI SSW - INFORMATION CENTER	11/22/2009	524.4	3.68E-01	2.63E-02	2.45E-03	1.71E-03
6	0.2 MI SSW - INFORMATION CENTER	11/30/2009	709.6	3.68E-01	1.75E-02	1.72E-03	1.20E-03
6	0.2 MI SSW - INFORMATION CENTER	12/7/2009	605.1	3.68E-01	1.59E-02	1.86E-03	1.55E-03
6	0.2 MI SSW - INFORMATION CENTER	12/14/2009	606.9	3.68E-01	2.54E-02	2.23E-03	1.53E-03
6	0.2 MI SSW - INFORMATION CENTER	12/20/2009	525.2	3.68E-01	2.18E-02	2.24E-03	1.61E-03
6	0.2 MI SSW - INFORMATION CENTER	12/28/2009	679.4	3.68E-01	2.55E-02	2.08E-03	1.32E-03

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	1/5/2009	564.1	3.74E-01	2.30E-02	2.22E-03	1.63E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	1/13/2009	628.2	3.74E-01	2.24E-02	2.02E-03	1.31E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	1/19/2009	471.4	3.74E-01	2.74E-02	2.63E-03	1.89E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	1/26/2009	554.7	3.74E-01	2.83E-02	2.41E-03	1.58E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	2/1/2009	465.6	3.74E-01	2.57E-02	2.54E-03	1.77E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	2/9/2009	646.8	3.74E-01	2.90E-02	2.25E-03	1.40E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	2/16/2009	562.6	3.74E-01	2.91E-02	2.44E-03	1.61E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	2/23/2009	558.2	3.74E-01	2.83E-02	2.44E-03	1.71E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	3/2/2009	554	3.74E-01	2.18E-02	2.18E-03	1.60E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	3/9/2009	551.5	3.74E-01	3.14E-02	2.54E-03	1.64E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	3/16/2009	535.7	3.74E-01	1.83E-02	2.05E-03	1.55E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	3/23/2009	578.7	3.74E-01	2.22E-02	2.14E-03	1.53E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	3/30/2009	698.3	3.74E-01	1.84E-02	1.76E-03	1.23E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	4/6/2009	718.8	3.74E-01	1.63E-02	1.69E-03	1.34E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	4/13/2009	735.8	3.74E-01	1.76E-02	1.69E-03	1.21E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	4/20/2009	729.7	3.74E-01	2.08E-02	1.83E-03	1.27E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	4/28/2009	848.2	3.74E-01	2.15E-02	1.66E-03	9.17E-04
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/4/2009	548.1	3.74E-01	2.47E-02	2.30E-03	1.63E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/11/2009	635.6	3.74E-01	1.52E-02	1.71E-03	1.30E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/18/2009	622.7	3.74E-01	1.41E-02	1.71E-03	1.43E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/25/2009	622.6	3.74E-01	1.31E-02	1.67E-03	1.43E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	6/1/2009	654.7	3.74E-01	1.74E-02	1.77E-03	1.24E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	6/8/2009	615.2	3.74E-01	1.86E-02	1.92E-03	1.44E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	6/16/2009	728.6	3.74E-01	1.77E-02	1.72E-03	1.28E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	6/22/2009	537.1	3.74E-01	2.60E-02	2.37E-03	1.62E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	6/29/2009	640.9	3.74E-01	2.30E-02	2.04E-03	1.39E-03

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	7/6/2009	644.8	3.74E-01	2.12E-02	2.00E-03	1.49E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	7/13/2009	656.7	3.74E-01	1.97E-02	1.90E-03	1.40E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	7/20/2009	621.5	3.74E-01	2.26E-02	2.09E-03	1.53E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	7/28/2009	730.7	3.68E-01	2.35E-02	1.94E-03	1.27E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/3/2009	549	3.68E-01	1.45E-02	1.97E-03	1.88E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/10/2009	647.9	3.68E-01	2.54E-02	2.15E-03	1.46E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/18/2009	728.4	3.68E-01	2.01E-02	1.81E-03	1.26E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/24/2009	547.5	3.68E-01	1.49E-02	1.94E-03	1.74E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/31/2009	646	3.68E-01	1.87E-02	1.89E-03	1.40E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	9/8/2009	724	3.68E-01	2.28E-02	1.91E-03	1.25E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	9/15/2009	639.5	3.68E-01	2.16E-02	2.02E-03	1.45E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	9/22/2009	642.1	3.68E-01	3.30E-02	2.41E-03	1.43E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	9/28/2009	545	3.68E-01	1.59E-02	1.98E-03	1.70E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	10/6/2009	724.3	3.68E-01	1.99E-02	1.80E-03	1.21E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	10/12/2009	545.6	3.68E-01	1.62E-02	2.01E-03	1.75E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	10/20/2009	721.8	3.68E-01	1.61E-02	1.69E-03	1.34E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	10/25/2009	447.3	3.68E-01	1.94E-02	2.44E-03	2.16E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/2/2009	722.4	3.68E-01	1.41E-02	1.58E-03	1.25E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/9/2009	625	3.68E-01	2.82E-02	2.31E-03	1.56E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	625.5	3.68E-01	1.62E-02	1.83E-03	1.47E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/22/2009	536.5	3.68E-01	2.66E-02	2.42E-03	1.67E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/30/2009	721.9	3.68E-01	1.59E-02	1.63E-03	1.18E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	12/7/2009	614.7	3.68E-01	1.60E-02	1.85E-03	1.53E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	12/14/2009	630.3	3.68E-01	2.58E-02	2.19E-03	1.47E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	12/20/2009	529.8	3.68E-01	2.15E-02	2.22E-03	1.60E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	12/28/2009	691.8	3.68E-01	2.47E-02	2.03E-03	1.30E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	1/5/2009	549	3.74E-01	2.15E-02	2.19E-03	1.67E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	1/13/2009	608.8	3.74E-01	2.29E-02	2.07E-03	1.35E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	1/19/2009	465.5	3.74E-01	2.98E-02	2.74E-03	1.91E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	1/26/2009	592.9	3.74E-01	2.64E-02	2.26E-03	1.48E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	2/1/2009	458.5	3.74E-01	2.31E-02	2.46E-03	1.80E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	2/9/2009	624.7	3.74E-01	2.71E-02	2.22E-03	1.45E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	2/16/2009	535.5	3.74E-01	2.74E-02	2.45E-03	1.69E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	2/23/2009	541.3	3.74E-01	2.57E-02	2.39E-03	1.76E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/2/2009	539.2	3.74E-01	2.14E-02	2.20E-03	1.64E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/9/2009	534.6	3.74E-01	3.32E-02	2.65E-03	1.69E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/16/2009	530.8	3.74E-01	1.84E-02	2.06E-03	1.57E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/23/2009	615.4	3.74E-01	2.10E-02	2.01E-03	1.44E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/30/2009	705.6	3.74E-01	1.90E-02	1.78E-03	1.22E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/6/2009	770.2	3.74E-01	1.50E-02	1.57E-03	1.25E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/13/2009	818.8	3.74E-01	1.74E-02	1.58E-03	1.09E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/20/2009	850.6	3.74E-01	1.85E-02	1.59E-03	1.09E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/28/2009	695.4	3.74E-01	2.20E-02	1.87E-03	1.12E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/4/2009	527.5	3.74E-01	2.48E-02	2.36E-03	1.69E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/11/2009	623.7	3.74E-01	1.58E-02	1.76E-03	1.32E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/18/2009	606.2	3.74E-01	1.49E-02	1.78E-03	1.47E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/25/2009	624.9	3.74E-01	1.46E-02	1.73E-03	1.43E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/1/2009	631.5	3.74E-01	1.63E-02	1.76E-03	1.28E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/8/2009	638.8	3.74E-01	1.81E-02	1.85E-03	1.38E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/16/2009	739	3.74E-01	1.78E-02	1.71E-03	1.26E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/22/2009	626.9	3.74E-01	2.33E-02	2.07E-03	1.39E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/29/2009	417.4	3.74E-01	3.08E-02	2.96E-03	2.13E-03

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/6/2009	502	3.74E-01	2.51E-02	2.48E-03	1.91E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/13/2009	570.1	3.74E-01	2.37E-02	2.23E-03	1.61E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/20/2009	575	3.74E-01	2.58E-02	2.31E-03	1.66E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/28/2009	649.6	3.68E-01	2.56E-02	2.15E-03	1.43E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/3/2009	452.4	3.68E-01	1.66E-02	2.35E-03	2.28E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/10/2009	540.6	3.68E-01	3.17E-02	2.62E-03	1.75E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/18/2009	631.2	3.68E-01	2.32E-02	2.09E-03	1.46E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/24/2009	437.9	3.68E-01	1.77E-02	2.39E-03	2.18E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/31/2009	533.4	3.68E-01	2.18E-02	2.25E-03	1.70E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/8/2009	611	3.68E-01	2.68E-02	2.26E-03	1.48E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/15/2009	532.3	3.68E-01	2.30E-02	2.31E-03	1.74E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/22/2009	534.5	3.68E-01	3.38E-02	2.70E-03	1.72E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/28/2009	457	3.68E-01	1.65E-02	2.25E-03	2.03E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/6/2009	594.6	3.68E-01	2.48E-02	2.21E-03	1.47E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/12/2009	451.8	3.68E-01	1.90E-02	2.40E-03	2.11E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/20/2009	582.5	3.68E-01	1.77E-02	2.00E-03	1.66E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/25/2009	369	3.68E-01	2.41E-02	2.99E-03	2.62E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/2/2009	590.5	3.68E-01	1.52E-02	1.84E-03	1.53E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/9/2009	597.6	3.68E-01	2.65E-02	2.31E-03	1.63E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/16/2009	509.1	3.68E-01	1.59E-02	2.06E-03	1.81E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/22/2009	479	3.68E-01	2.53E-02	2.54E-03	1.88E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/30/2009	663.2	3.68E-01	1.63E-02	1.74E-03	1.29E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/7/2009	567.2	3.68E-01	1.51E-02	1.90E-03	1.66E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/14/2009	564.5	3.68E-01	2.35E-02	2.25E-03	1.64E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/20/2009	498.5	3.68E-01	2.41E-02	2.41E-03	1.70E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/28/2009	638.4	3.68E-01	2.47E-02	2.13E-03	1.41E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD	
60	0.2 MI SE - ROBINSON PICNIC AREA	1/5/2009	658.2	3.74E-01	2.00E-02	1.91E-03	1.40E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	1/13/2009	730.5	3.74E-01	2.02E-02	1.77E-03	1.13E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	1/19/2009	548.3	3.74E-01	2.36E-02	2.26E-03	1.62E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	1/26/2009	645.8	3.74E-01	2.46E-02	2.09E-03	1.36E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	2/1/2009	551.4	3.74E-01	2.40E-02	2.24E-03	1.50E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	2/9/2009	747.9	3.74E-01	2.37E-02	1.90E-03	1.21E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	652.7	3.74E-01	2.21E-02	1.99E-03	1.39E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	2/23/2009	647.6	3.74E-01	2.45E-02	2.11E-03	1.47E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/2/2009	648.1	3.74E-01	1.96E-02	1.90E-03	1.36E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/9/2009	645.2	3.74E-01	2.81E-02	2.22E-03	1.40E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/16/2009	654.1	3.74E-01	1.74E-02	1.78E-03	1.27E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/23/2009	582.8	3.74E-01	1.96E-02	2.02E-03	1.52E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/30/2009	584.1	3.74E-01	2.31E-02	2.15E-03	1.48E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	4/6/2009	581.4	3.74E-01	1.87E-02	2.03E-03	1.66E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	4/13/2009	588	3.74E-01	2.11E-02	2.08E-03	1.52E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	4/20/2009	588.2	3.74E-01	2.08E-02	2.08E-03	1.57E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	4/28/2009	657.2	3.74E-01	2.45E-02	2.03E-03	1.18E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	5/4/2009	496.2	3.74E-01	2.62E-02	2.51E-03	1.80E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	5/11/2009	556.8	3.74E-01	1.79E-02	1.98E-03	1.48E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	5/18/2009	571.4	3.74E-01	1.59E-02	1.89E-03	1.56E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	5/25/2009	580.1	3.74E-01	1.62E-02	1.88E-03	1.54E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	6/1/2009	595.2	3.74E-01	1.65E-02	1.83E-03	1.36E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	6/8/2009	565.5	3.74E-01	1.87E-02	2.02E-03	1.56E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	6/16/2009	664.7	3.74E-01	1.89E-02	1.86E-03	1.40E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	6/22/2009	488	3.74E-01	2.47E-02	2.46E-03	1.78E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	6/29/2009	576.5	3.74E-01	2.65E-02	2.31E-03	1.55E-03

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
60	0.2 MI SE - ROBINSON PICNIC AREA	7/6/2009	582	3.74E-01	2.42E-02	2.24E-03	1.65E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	7/13/2009	578.7	3.74E-01	2.48E-02	2.25E-03	1.59E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	7/20/2009	579	3.74E-01	2.57E-02	2.30E-03	1.65E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	7/28/2009	650.9	3.68E-01	2.48E-02	2.12E-03	1.42E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	8/3/2009	493.8	3.68E-01	1.70E-02	2.23E-03	2.09E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	8/10/2009	577.1	3.68E-01	3.19E-02	2.53E-03	1.64E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	8/18/2009	652.4	3.68E-01	2.39E-02	2.08E-03	1.41E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	8/24/2009	490.1	3.68E-01	1.66E-02	2.17E-03	1.95E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	8/31/2009	576.7	3.68E-01	2.19E-02	2.15E-03	1.57E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	9/8/2009	656.2	3.68E-01	2.77E-02	2.20E-03	1.38E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	9/15/2009	578.1	3.68E-01	2.29E-02	2.20E-03	1.60E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	9/22/2009	571.5	3.68E-01	3.12E-02	2.51E-03	1.61E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	9/28/2009	493.9	3.68E-01	1.69E-02	2.16E-03	1.88E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	10/6/2009	649	3.68E-01	2.32E-02	2.04E-03	1.35E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	10/12/2009	361.2	3.68E-01	1.66E-02	2.66E-03	2.64E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	10/20/2009	544.4	3.68E-01	1.67E-02	2.04E-03	1.78E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	10/25/2009	408	3.68E-01	2.33E-02	2.77E-03	2.37E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	11/2/2009	658.8	3.68E-01	1.44E-02	1.68E-03	1.37E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	11/9/2009	582.2	3.68E-01	3.27E-02	2.55E-03	1.67E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	11/16/2009	575	3.68E-01	1.81E-02	2.01E-03	1.60E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	11/22/2009	484.4	3.68E-01	2.98E-02	2.70E-03	1.85E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	11/30/2009	665.6	3.68E-01	1.80E-02	1.80E-03	1.28E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	12/7/2009	570.6	3.68E-01	1.55E-02	1.91E-03	1.65E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	12/14/2009	573.3	3.68E-01	2.51E-02	2.29E-03	1.62E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	12/20/2009	500.9	3.68E-01	2.31E-02	2.36E-03	1.69E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	12/28/2009	644.5	3.68E-01	2.64E-02	2.18E-03	1.39E-03



# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	1/5/2009	657	3.74E-01	2.02E-02	1.92E-03	1.40E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	1/13/2009	732.6	3.74E-01	1.83E-02	1.69E-03	1.13E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	1/19/2009	545.7	3.74E-01	2.45E-02	2.31E-03	1.63E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	1/26/2009	641	3.74E-01	2.40E-02	2.07E-03	1.37E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/1/2009	547.2	3.74E-01	2.17E-02	2.16E-03	1.51E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/9/2009	743.3	3.74E-01	2.28E-02	1.87E-03	1.22E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/16/2009	648.1	3.74E-01	2.12E-02	1.97E-03	1.40E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/23/2009	643	3.74E-01	2.12E-02	2.00E-03	1.48E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	3/2/2009	637.2	3.74E-01	1.97E-02	1.92E-03	1.39E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	3/9/2009	586.3	3.74E-01	2.98E-02	2.40E-03	1.54E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	3/16/2009	607	3.74E-01	1.75E-02	1.86E-03	1.37E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	3/23/2009	567	3.74E-01	2.16E-02	2.14E-03	1.56E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	3/30/2009	583.5	3.74E-01	2.11E-02	2.07E-03	1.48E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	4/6/2009	579.7	3.74E-01	1.79E-02	2.00E-03	1.67E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	4/13/2009	572.6	3.74E-01	2.04E-02	2.08E-03	1.56E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	4/20/2009	575.1	3.74E-01	2.27E-02	2.18E-03	1.61E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	4/28/2009	666.4	3.74E-01	2.35E-02	1.97E-03	1.17E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/4/2009	513.1	3.74E-01	2.50E-02	2.41E-03	1.74E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/11/2009	606.2	3.74E-01	1.66E-02	1.82E-03	1.36E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/18/2009	641.8	3.74E-01	1.60E-02	1.76E-03	1.39E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/25/2009	536.3	3.74E-01	1.59E-02	1.97E-03	1.66E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	6/1/2009	616.2	3.74E-01	1.81E-02	1.86E-03	1.31E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	6/8/2009	586.6	3.74E-01	1.79E-02	1.94E-03	1.51E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	6/16/2009	756.5	3.74E-01	1.58E-02	1.60E-03	1.23E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	6/22/2009	447.3	3.74E-01	2.67E-02	2.67E-03	1.94E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	6/29/2009	601.5	3.74E-01	2.39E-02	2.15E-03	1.48E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>	
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	7/6/2009	607	3.74E-01	2.44E-02	2.19E-03	1.58E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	7/13/2009	594.5	3.74E-01	2.12E-02	2.08E-03	1.55E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	7/20/2009	608.8	3.74E-01	2.69E-02	2.27E-03	1.56E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	7/28/2009	682.9	3.68E-01	2.51E-02	2.07E-03	1.36E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/3/2009	513.7	3.68E-01	1.57E-02	2.12E-03	2.01E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/10/2009	607.7	3.68E-01	3.14E-02	2.44E-03	1.56E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/18/2009	684.1	3.68E-01	2.46E-02	2.05E-03	1.34E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/24/2009	514.5	3.68E-01	1.88E-02	2.20E-03	1.86E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/31/2009	603.7	3.68E-01	2.14E-02	2.07E-03	1.50E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	9/8/2009	678.5	3.68E-01	2.57E-02	2.09E-03	1.33E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	9/15/2009	598.1	3.68E-01	2.30E-02	2.16E-03	1.55E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	9/22/2009	596.6	3.68E-01	3.24E-02	2.49E-03	1.54E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	9/28/2009	514.2	3.68E-01	1.75E-02	2.13E-03	1.80E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	10/6/2009	672.2	3.68E-01	2.34E-02	2.01E-03	1.30E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	10/12/2009	509.9	3.68E-01	1.58E-02	2.08E-03	1.87E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	10/20/2009	661.8	3.68E-01	1.78E-02	1.85E-03	1.46E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	10/25/2009	412.3	3.68E-01	2.29E-02	2.73E-03	2.35E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/2/2009	666.4	3.68E-01	1.68E-02	1.78E-03	1.36E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/9/2009	576.8	3.68E-01	3.00E-02	2.48E-03	1.69E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/16/2009	568.9	3.68E-01	1.55E-02	1.91E-03	1.62E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/22/2009	485.2	3.68E-01	2.96E-02	2.69E-03	1.85E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/30/2009	642.6	3.68E-01	1.92E-02	1.89E-03	1.33E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	12/7/2009	542.5	3.68E-01	1.65E-02	2.02E-03	1.73E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	12/14/2009	539.5	3.68E-01	2.80E-02	2.48E-03	1.72E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	12/20/2009	467.8	3.68E-01	2.75E-02	2.64E-03	1.81E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	12/28/2009	592.3	3.68E-01	2.83E-02	2.35E-03	1.52E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
1	24.4 MI ESE - FLORENCE - CONTROL	1/5/2009	594.5	<LLD		3.30E-02
1	24.4 MI ESE - FLORENCE - CONTROL	1/13/2009	658.9	<LLD		1.15E-02
1	24.4 MI ESE - FLORENCE - CONTROL	1/19/2009	492.2	<LLD		1.43E-02
1	24.4 MI ESE - FLORENCE - CONTROL	1/26/2009	580.2	<LLD		1.36E-02
1	24.4 MI ESE - FLORENCE - CONTROL	2/1/2009	486.7	<LLD		1.61E-02
1	24.4 MI ESE - FLORENCE - CONTROL	2/9/2009	674.3	<LLD		1.22E-02
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	586.5	<LLD		2.73E-02
1	24.4 MI ESE - FLORENCE - CONTROL	2/23/2009	579.4	<LLD		1.46E-02
1	24.4 MI ESE - FLORENCE - CONTROL	3/2/2009	576.1	<LLD		1.56E-02
1	24.4 MI ESE - FLORENCE - CONTROL	3/9/2009	576.0	<LLD		1.87E-02
1	24.4 MI ESE - FLORENCE - CONTROL	3/16/2009	557.9	<LLD		1.73E-02
1	24.4 MI ESE - FLORENCE - CONTROL	3/23/2009	582.3	<LLD		1.28E-02
1	24.4 MI ESE - FLORENCE - CONTROL	3/30/2009	606.5	<LLD		8.55E-03
1	24.4 MI ESE - FLORENCE - CONTROL	4/6/2009	583.4	<LLD		2.16E-02
1	24.4 MI ESE - FLORENCE - CONTROL	4/13/2009	559.6	<LLD		1.30E-02
1	24.4 MI ESE - FLORENCE - CONTROL	4/20/2009	596.7	<LLD		2.42E-02
1	24.4 MI ESE - FLORENCE - CONTROL	4/28/2009	681.8	<LLD		2.21E-02
1	24.4 MI ESE - FLORENCE - CONTROL	5/4/2009	517.1	<LLD		2.68E-02
1	24.4 MI ESE - FLORENCE - CONTROL	5/11/2009	599.7	<LLD		1.40E-02
1	24.4 MI ESE - FLORENCE - CONTROL	5/18/2009	604.9	<LLD		2.13E-02
1	24.4 MI ESE - FLORENCE - CONTROL	5/25/2009	593.0	<LLD		1.66E-02
1	24.4 MI ESE - FLORENCE - CONTROL	6/1/2009	581.8	<LLD		1.84E-02
1	24.4 MI ESE - FLORENCE - CONTROL	6/8/2009	608.8	<LLD		1.99E-02
1	24.4 MI ESE - FLORENCE - CONTROL	6/16/2009	731.8	<LLD		1.58E-02
1	24.4 MI ESE - FLORENCE - CONTROL	6/22/2009	522.8	<LLD		1.93E-02

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
1	24.4 MI ESE - FLORENCE - CONTROL	6/29/2009	613.7	<LLD		1.75E-02
1	24.4 MI ESE - FLORENCE - CONTROL	7/6/2009	586.1	<LLD		1.89E-02
1	24.4 MI ESE - FLORENCE - CONTROL	7/13/2009	613.9	<LLD		2.35E-02
1	24.4 MI ESE - FLORENCE - CONTROL	7/20/2009	648.5	<LLD		1.88E-02
1	24.4 MI ESE - FLORENCE - CONTROL	7/28/2009	701.8	<LLD		1.80E-02
1	24.4 MI ESE - FLORENCE - CONTROL	8/3/2009	495.4	<LLD		2.15E-02
1	24.4 MI ESE - FLORENCE - CONTROL	8/10/2009	616.0	<LLD		2.27E-02
1	24.4 MI ESE - FLORENCE - CONTROL	8/18/2009	705.0	<LLD		1.55E-02
1	24.4 MI ESE - FLORENCE - CONTROL	8/24/2009	529.2	<LLD		1.28E-02
1	24.4 MI ESE - FLORENCE - CONTROL	8/31/2009	616.9	<LLD		1.88E-02
1	24.4 MI ESE - FLORENCE - CONTROL	9/8/2009	732.8	<LLD		1.72E-02
1	24.4 MI ESE - FLORENCE - CONTROL	9/15/2009	583.9	<LLD		1.37E-02
1	24.4 MI ESE - FLORENCE - CONTROL	9/21/2009	527.9	<LLD		1.59E-02
1	24.4 MI ESE - FLORENCE - CONTROL	9/28/2009	642.6	<LLD		2.11E-02
1	24.4 MI ESE - FLORENCE - CONTROL	10/6/2009	740.6	<LLD		1.21E-02
1	24.4 MI ESE - FLORENCE - CONTROL	10/12/2009	476.8	<LLD		2.53E-02
1	24.4 MI ESE - FLORENCE - CONTROL	10/20/2009	689.7	<LLD		1.26E-02
1	24.4 MI ESE - FLORENCE - CONTROL	10/25/2009	432.6	<LLD		1.92E-02
1	24.4 MI ESE - FLORENCE - CONTROL	11/2/2009	664.4	<LLD		1.89E-02
1	24.4 MI ESE - FLORENCE - CONTROL	11/9/2009	632.7	<LLD		1.55E-02
1	24.4 MI ESE - FLORENCE - CONTROL	11/16/2009	569.6	<LLD		1.24E-02
1	24.4 MI ESE - FLORENCE - CONTROL	11/22/2009	543.8	<LLD		2.01E-02
1	24.4 MI ESE - FLORENCE - CONTROL	11/30/2009	694.6	<LLD		1.57E-02
1	24.4 MI ESE - FLORENCE - CONTROL	12/7/2009	594.9	<LLD		6.81E-03
1	24.4 MI ESE - FLORENCE - CONTROL	12/14/2009	597.0	<LLD		1.78E-02

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
1	24.4 MI ESE - FLORENCE - CONTROL	12/20/2009	510.3	<LLD		1.85E-02
1	24.4 MI ESE - FLORENCE - CONTROL	12/28/2009	666.9	<LLD		1.16E-02
2	0.2 MI S - INFORMATION CENTER	1/5/2009	553.0	<LLD		2.52E-02
2	0.2 MI S - INFORMATION CENTER	1/13/2009	617.9	<LLD		1.35E-02
2	0.2 MI S - INFORMATION CENTER	1/19/2009	455.7	<LLD		2.42E-02
2	0.2 MI S - INFORMATION CENTER	1/26/2009	538.8	<LLD		1.80E-02
2	0.2 MI S - INFORMATION CENTER	2/1/2009	461.0	<LLD		2.21E-02
2	0.2 MI S - INFORMATION CENTER	2/9/2009	625.0	<LLD		1.67E-02
2	0.2 MI S - INFORMATION CENTER	2/16/2009	552.0	<LLD		1.87E-02
2	0.2 MI S - INFORMATION CENTER	2/23/2009	540.2	<LLD		1.55E-02
2	0.2 MI S - INFORMATION CENTER	3/2/2009	539.5	<LLD		2.21E-02
2	0.2 MI S - INFORMATION CENTER	3/9/2009	538.7	<LLD		1.86E-02
2	0.2 MI S - INFORMATION CENTER	3/16/2009	620.0	<LLD		1.68E-02
2	0.2 MI S - INFORMATION CENTER	3/23/2009	601.6	<LLD		1.42E-02
2	0.2 MI S - INFORMATION CENTER	3/30/2009	613.4	<LLD		1.04E-02
2	0.2 MI S - INFORMATION CENTER	4/6/2009	606.9	<LLD		1.82E-02
2	0.2 MI S - INFORMATION CENTER	4/13/2009	609.5	<LLD		1.85E-02
2	0.2 MI S - INFORMATION CENTER	4/20/2009	610.1	<LLD		1.31E-02
2	0.2 MI S - INFORMATION CENTER	4/28/2009	697.7	<LLD		1.05E-02
2	0.2 MI S - INFORMATION CENTER	5/4/2009	512.5	<LLD		1.45E-02
2	0.2 MI S - INFORMATION CENTER	5/11/2009	604.2	<LLD		2.03E-02
2	0.2 MI S - INFORMATION CENTER	5/18/2009	597.8	<LLD		1.70E-02
2	0.2 MI S - INFORMATION CENTER	5/25/2009	595.1	<LLD		1.96E-02
2	0.2 MI S - INFORMATION CENTER	6/1/2009	612.0	<LLD		1.90E-02
2	0.2 MI S - INFORMATION CENTER	6/8/2009	595.9	<LLD		1.18E-02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
2	0.2 MI S - INFORMATION CENTER	6/16/2009	687.3	<LLD		1.23E-02
2	0.2 MI S - INFORMATION CENTER	6/22/2009	500.7	<LLD		1.78E-02
2	0.2 MI S - INFORMATION CENTER	6/29/2009	591.7	<LLD		2.26E-02
2	0.2 MI S - INFORMATION CENTER	7/6/2009	599.5	<LLD		9.53E-03
2	0.2 MI S - INFORMATION CENTER	7/13/2009	595.4	<LLD		1.10E-02
2	0.2 MI S - INFORMATION CENTER	7/20/2009	593.9	<LLD		1.24E-02
2	0.2 MI S - INFORMATION CENTER	7/28/2009	672.6	<LLD		1.68E-02
2	0.2 MI S - INFORMATION CENTER	8/3/2009	510.1	<LLD		1.51E-02
2	0.2 MI S - INFORMATION CENTER	8/10/2009	592.2	<LLD		1.99E-02
2	0.2 MI S - INFORMATION CENTER	8/18/2009	673.2	<LLD		1.33E-02
2	0.2 MI S - INFORMATION CENTER	8/24/2009	504.9	<LLD		2.13E-02
2	0.2 MI S - INFORMATION CENTER	8/31/2009	593.7	<LLD		1.56E-02
2	0.2 MI S - INFORMATION CENTER	9/8/2009	680.1	<LLD		1.22E-02
2	0.2 MI S - INFORMATION CENTER	9/15/2009	595.5	<LLD		1.95E-02
2	0.2 MI S - INFORMATION CENTER	9/22/2009	593.0	<LLD		1.67E-02
2	0.2 MI S - INFORMATION CENTER	9/28/2009	510.8	<LLD		2.04E-02
2	0.2 MI S - INFORMATION CENTER	10/6/2009	677.2	<LLD		1.53E-02
2	0.2 MI S - INFORMATION CENTER	10/12/2009	510.4	<LLD		2.30E-02
2	0.2 MI S - INFORMATION CENTER	10/20/2009	682.5	<LLD		1.91E-02
2	0.2 MI S - INFORMATION CENTER	10/25/2009	420.7	<LLD		1.87E-02
2	0.2 MI S - INFORMATION CENTER	11/2/2009	677.7	<LLD		1.09E-02
2	0.2 MI S - INFORMATION CENTER	11/9/2009	598.6	<LLD		1.51E-02
2	0.2 MI S - INFORMATION CENTER	11/16/2009	589.1	<LLD		2.61E-02
2	0.2 MI S - INFORMATION CENTER	11/22/2009	501.9	<LLD		2.36E-02
2	0.2 MI S - INFORMATION CENTER	11/30/2009	685.8	<LLD		1.49E-02

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
2	0.2 MI S - INFORMATION CENTER	12/7/2009	589.4	<LLD		1.69E-02
2	0.2 MI S - INFORMATION CENTER	12/14/2009	592.2	<LLD		2.94E-02
2	0.2 MI S - INFORMATION CENTER	12/20/2009	513.0	<LLD		2.18E-02
2	0.2 MI S - INFORMATION CENTER	12/28/2009	660.6	<LLD		1.70E-02
3	0.5 MI N - MICROWAVE TOWER	1/5/2009	634.8	<LLD		2.19E-02
3	0.5 MI N - MICROWAVE TOWER	1/13/2009	705.0	<LLD		1.18E-02
3	0.5 MI N - MICROWAVE TOWER	1/19/2009	529.1	<LLD		1.65E-02
3	0.5 MI N - MICROWAVE TOWER	1/26/2009	621.1	<LLD		1.87E-02
3	0.5 MI N - MICROWAVE TOWER	2/1/2009	525.3	<LLD		1.67E-02
3	0.5 MI N - MICROWAVE TOWER	2/9/2009	717.2	<LLD		7.66E-03
3	0.5 MI N - MICROWAVE TOWER	2/16/2009	631.1	<LLD		1.28E-02
3	0.5 MI N - MICROWAVE TOWER	2/23/2009	616.5	<LLD		1.28E-02
3	0.5 MI N - MICROWAVE TOWER	3/2/2009	618.2	<LLD		1.63E-02
3	0.5 MI N - MICROWAVE TOWER	3/9/2009	615.9	<LLD		1.22E-02
3	0.5 MI N - MICROWAVE TOWER	3/16/2009	630.0	<LLD		1.18E-02
3	0.5 MI N - MICROWAVE TOWER	3/23/2009	613.2	<LLD		6.08E-03
3	0.5 MI N - MICROWAVE TOWER	3/30/2009	594.6	<LLD		1.38E-02
3	0.5 MI N - MICROWAVE TOWER	4/6/2009	652.6	<LLD		1.52E-02
3	0.5 MI N - MICROWAVE TOWER	4/13/2009	693.0	<LLD		1.64E-02
3	0.5 MI N - MICROWAVE TOWER	4/20/2009	699.9	<LLD		1.41E-02
3	0.5 MI N - MICROWAVE TOWER	4/28/2009	639.3	<LLD		1.98E-02
3	0.5 MI N - MICROWAVE TOWER	5/4/2009	485.7	<LLD		2.16E-02
3	0.5 MI N - MICROWAVE TOWER	5/11/2009	577.5	<LLD		2.35E-02
3	0.5 MI N - MICROWAVE TOWER	5/18/2009	574.9	<LLD		2.08E-02
3	0.5 MI N - MICROWAVE TOWER	5/25/2009	576.7	<LLD		2.11E-02

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
3	0.5 MI N - MICROWAVE TOWER	6/1/2009	602.0	<LLD		1.78E-02
3	0.5 MI N - MICROWAVE TOWER	6/8/2009	572.7	<LLD		1.73E-02
3	0.5 MI N - MICROWAVE TOWER	6/16/2009	677.6	<LLD		1.79E-02
3	0.5 MI N - MICROWAVE TOWER	6/22/2009	497.7	<LLD		2.07E-02
3	0.5 MI N - MICROWAVE TOWER	6/29/2009	592.9	<LLD		1.39E-02
3	0.5 MI N - MICROWAVE TOWER	7/6/2009	600.4	<LLD		2.26E-02
3	0.5 MI N - MICROWAVE TOWER	7/13/2009	562.6	<LLD		2.03E-02
3	0.5 MI N - MICROWAVE TOWER	7/20/2009	546.4	<LLD		1.71E-02
3	0.5 MI N - MICROWAVE TOWER	7/28/2009	628.5	<LLD		1.78E-02
3	0.5 MI N - MICROWAVE TOWER	8/3/2009	472.0	<LLD		2.02E-02
3	0.5 MI N - MICROWAVE TOWER	8/10/2009	558.0	<LLD		1.45E-02
3	0.5 MI N - MICROWAVE TOWER	8/18/2009	640.2	<LLD		9.28E-03
3	0.5 MI N - MICROWAVE TOWER	8/24/2009	470.6	<LLD		2.04E-02
3	0.5 MI N - MICROWAVE TOWER	8/31/2009	550.5	<LLD		1.27E-02
3	0.5 MI N - MICROWAVE TOWER	9/8/2009	627.3	<LLD		1.50E-02
3	0.5 MI N - MICROWAVE TOWER	9/15/2009	562.2	<LLD		1.91E-02
3	0.5 MI N - MICROWAVE TOWER	9/22/2009	555.6	<LLD		1.93E-02
3	0.5 MI N - MICROWAVE TOWER	9/28/2009	460.6	<LLD		1.69E-02
3	0.5 MI N - MICROWAVE TOWER	10/6/2009	627.8	<LLD		1.93E-02
3	0.5 MI N - MICROWAVE TOWER	10/12/2009	471.6	<LLD		2.95E-02
3	0.5 MI N - MICROWAVE TOWER	10/20/2009	616.6	<LLD		1.09E-02
3	0.5 MI N - MICROWAVE TOWER	10/25/2009	391.1	<LLD		2.84E-02
3	0.5 MI N - MICROWAVE TOWER	11/2/2009	621.7	<LLD		1.65E-02
3	0.5 MI N - MICROWAVE TOWER	11/9/2009	543.1	<LLD		1.71E-02
3	0.5 MI N - MICROWAVE TOWER	11/16/2009	550.1	<LLD		1.70E-02



# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
3	0.5 MI N - MICROWAVE TOWER	11/22/2009	451.4	<LLD		1.50E-02
3	0.5 MI N - MICROWAVE TOWER	11/30/2009	615.9	<LLD		1.18E-02
3	0.5 MI N - MICROWAVE TOWER	12/7/2009	525.0	<LLD		1.34E-02
3	0.5 MI N - MICROWAVE TOWER	12/14/2009	531.9	<LLD		1.65E-02
3	0.5 MI N - MICROWAVE TOWER	12/20/2009	460.1	<LLD		2.27E-02
3	0.5 MI N - MICROWAVE TOWER	12/28/2009	591.1	<LLD		1.62E-02
4	0.4 MI ESE - SPILLWAY	1/5/2009	582.3	<LLD		2.56E-02
4	0.4 MI ESE - SPILLWAY	1/13/2009	653.3	<LLD		1.57E-02
4	0.4 MI ESE - SPILLWAY	1/19/2009	484.6	<LLD		2.06E-02
4	0.4 MI ESE - SPILLWAY	1/26/2009	569.4	<LLD		1.49E-02
4	0.4 MI ESE - SPILLWAY	2/1/2009	486.1	<LLD		1.98E-02
4	0.4 MI ESE - SPILLWAY	2/9/2009	658.3	<LLD		1.54E-02
4	0.4 MI ESE - SPILLWAY	2/16/2009	576.1	<LLD		2.02E-02
4	0.4 MI ESE - SPILLWAY	2/23/2009	571.7	<LLD		1.68E-02
4	0.4 MI ESE - SPILLWAY	3/2/2009	568.4	<LLD		1.29E-02
4	0.4 MI ESE - SPILLWAY	3/9/2009	567.1	<LLD		1.81E-02
4	0.4 MI ESE - SPILLWAY	3/16/2009	578.3	<LLD		1.85E-02
4	0.4 MI ESE - SPILLWAY	3/23/2009	561.9	<LLD		1.52E-02
4	0.4 MI ESE - SPILLWAY	3/30/2009	573.7	<LLD		1.76E-02
4	0.4 MI ESE - SPILLWAY	4/6/2009	574.2	<LLD		1.97E-02
4	0.4 MI ESE - SPILLWAY	4/13/2009	574.1	<LLD		1.13E-02
4	0.4 MI ESE - SPILLWAY	4/20/2009	672.8	<LLD		1.73E-02
4	0.4 MI ESE - SPILLWAY	4/28/2009	744.9	<LLD		1.47E-02
4	0.4 MI ESE - SPILLWAY	5/4/2009	739.5	<LLD		1.59E-02
4	0.4 MI ESE - SPILLWAY	5/11/2009	651.6	<LLD		1.43E-02

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
4	0.4 MI ESE - SPILLWAY	5/18/2009	649.3	<LLD		1.68E-02
4	0.4 MI ESE - SPILLWAY	5/25/2009	666.7	<LLD		7.46E-03
4	0.4 MI ESE - SPILLWAY	6/1/2009	694.0	<LLD		1.60E-02
4	0.4 MI ESE - SPILLWAY	6/8/2009	683.5	<LLD		1.78E-02
4	0.4 MI ESE - SPILLWAY	6/16/2009	789.6	<LLD		1.06E-02
4	0.4 MI ESE - SPILLWAY	6/22/2009	580.5	<LLD		1.84E-02
4	0.4 MI ESE - SPILLWAY	6/29/2009	693.6	<LLD		1.86E-02
4	0.4 MI ESE - SPILLWAY	7/6/2009	704.4	<LLD		1.49E-02
4	0.4 MI ESE - SPILLWAY	7/13/2009	702.4	<LLD		1.41E-02
4	0.4 MI ESE - SPILLWAY	7/20/2009	706.9	<LLD		1.93E-02
4	0.4 MI ESE - SPILLWAY	7/28/2009	716.5	<LLD		1.44E-02
4	0.4 MI ESE - SPILLWAY	8/3/2009	543.6	<LLD		1.73E-02
4	0.4 MI ESE - SPILLWAY	8/10/2009	639.6	<LLD		1.55E-02
4	0.4 MI ESE - SPILLWAY	8/18/2009	748.4	<LLD		1.19E-02
4	0.4 MI ESE - SPILLWAY	8/24/2009	519.8	<LLD		2.27E-02
4	0.4 MI ESE - SPILLWAY	8/31/2009	639.4	<LLD		1.74E-02
4	0.4 MI ESE - SPILLWAY	9/8/2009	718.6	<LLD		1.44E-02
4	0.4 MI ESE - SPILLWAY	9/15/2009	636.3	<LLD		2.14E-02
4	0.4 MI ESE - SPILLWAY	9/22/2009	631.2	<LLD		1.93E-02
4	0.4 MI ESE - SPILLWAY	9/28/2009	544.3	<LLD		2.05E-02
4	0.4 MI ESE - SPILLWAY	10/6/2009	711.9	<LLD		2.30E-02
4	0.4 MI ESE - SPILLWAY	10/12/2009	540.9	<LLD		1.17E-02
4	0.4 MI ESE - SPILLWAY	10/20/2009	705.2	<LLD		1.51E-02
4	0.4 MI ESE - SPILLWAY	10/25/2009	444.8	<LLD		2.24E-02
4	0.4 MI ESE - SPILLWAY	11/2/2009	712.9	<LLD		1.67E-02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
4	0.4 MI ESE - SPILLWAY	11/9/2009	625.6	<LLD		1.57E-02
4	0.4 MI ESE - SPILLWAY	11/16/2009	616.2	<LLD		1.75E-02
4	0.4 MI ESE - SPILLWAY	11/22/2009	519.6	<LLD		1.51E-02
4	0.4 MI ESE - SPILLWAY	11/30/2009	711.7	<LLD		1.45E-02
4	0.4 MI ESE - SPILLWAY	12/7/2009	609.0	<LLD		2.09E-02
4	0.4 MI ESE - SPILLWAY	12/14/2009	608.8	<LLD		1.08E-02
4	0.4 MI ESE - SPILLWAY	12/20/2009	531.4	<LLD		2.46E-02
4	0.4 MI ESE - SPILLWAY	12/28/2009	684.0	<LLD		1.71E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	1/5/2009	582.4	<LLD		2.86E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	1/13/2009	641.2	<LLD		1.40E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	1/19/2009	493.1	<LLD		1.81E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	1/26/2009	574.5	<LLD		1.83E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	2/1/2009	486.7	<LLD		1.97E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	2/9/2009	662.1	<LLD		1.69E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	2/16/2009	576.6	<LLD		2.36E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	2/23/2009	572.5	<LLD		1.72E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	3/2/2009	570.9	<LLD		1.37E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	3/9/2009	572.6	<LLD		1.97E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	3/16/2009	581.4	<LLD		1.47E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	3/23/2009	570.3	<LLD		1.96E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	3/30/2009	573.5	<LLD		6.41E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	4/6/2009	572.7	<LLD		1.87E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	4/13/2009	577.6	<LLD		1.95E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	4/20/2009	572.8	<LLD		1.84E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	4/28/2009	681.0	<LLD		8.76E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	5/4/2009	485.6	<LLD		1.97E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	5/11/2009	582.0	<LLD		2.25E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	5/18/2009	571.7	<LLD		1.78E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	5/25/2009	574.1	<LLD		1.51E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	6/1/2009	592.8	<LLD		1.92E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	6/8/2009	589.5	<LLD		1.37E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	6/16/2009	661.0	<LLD		1.92E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	6/22/2009	486.7	<LLD		1.94E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	6/29/2009	575.2	<LLD		2.06E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	7/6/2009	582.4	<LLD		1.84E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	7/13/2009	576.4	<LLD		2.35E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	7/20/2009	574.2	<LLD		1.99E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	7/28/2009	651.6	<LLD		1.86E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	8/3/2009	490.5	<LLD		2.57E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	8/10/2009	576.5	<LLD		1.82E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	8/18/2009	668.4	<LLD		1.64E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	8/24/2009	473.8	<LLD		2.03E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	8/31/2009	573.2	<LLD		1.71E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	9/8/2009	654.0	<LLD		1.76E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	9/15/2009	582.7	<LLD		1.69E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	9/22/2009	584.2	<LLD		2.10E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	9/28/2009	471.7	<LLD		3.03E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	10/6/2009	647.3	<LLD		1.31E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	10/12/2009	434.3	<LLD		2.78E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	10/20/2009	706.6	<LLD		1.10E-02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	10/25/2009	409.2	<LLD		1.57E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	11/2/2009	649.0	<LLD		1.62E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	11/9/2009	572.7	<LLD		1.41E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	11/16/2009	580.4	<LLD		1.93E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	11/22/2009	475.1	<LLD		2.34E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	11/30/2009	657.1	<LLD		1.67E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	12/7/2009	561.1	<LLD		1.55E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	12/14/2009	565.4	<LLD		1.88E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	12/20/2009	497.4	<LLD		1.42E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO	12/28/2009	638.8	<LLD		1.71E-02
6	0.2 MI SSW - INFORMATION CENTER	1/5/2009	568.7	<LLD		3.23E-02
6	0.2 MI SSW - INFORMATION CENTER	1/13/2009	630.1	<LLD		1.49E-02
6	0.2 MI SSW - INFORMATION CENTER	1/19/2009	481.2	<LLD		1.82E-02
6	0.2 MI SSW - INFORMATION CENTER	1/26/2009	560.3	<LLD		2.16E-02
6	0.2 MI SSW - INFORMATION CENTER	2/1/2009	474.2	<LLD		1.77E-02
6	0.2 MI SSW - INFORMATION CENTER	2/9/2009	645.0	<LLD		6.89E-03
6	0.2 MI SSW - INFORMATION CENTER	2/16/2009	551.9	<LLD		2.06E-02
6	0.2 MI SSW - INFORMATION CENTER	2/23/2009	556.5	<LLD		1.62E-02
6	0.2 MI SSW - INFORMATION CENTER	3/2/2009	553.0	<LLD		1.52E-02
6	0.2 MI SSW - INFORMATION CENTER	3/9/2009	612.2	<LLD		1.11E-02
6	0.2 MI SSW - INFORMATION CENTER	3/16/2009	667.0	<LLD		6.38E-03
6	0.2 MI SSW - INFORMATION CENTER	3/23/2009	637.3	<LLD		2.27E-02
6	0.2 MI SSW - INFORMATION CENTER	3/30/2009	667.7	<LLD		1.26E-02
6	0.2 MI SSW - INFORMATION CENTER	4/6/2009	670.0	<LLD		1.70E-02
6	0.2 MI SSW - INFORMATION CENTER	4/13/2009	668.9	<LLD		1.69E-02

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
6	0.2 MI SSW - INFORMATION CENTER	4/20/2009	674.6	<LLD		1.37E-02
6	0.2 MI SSW - INFORMATION CENTER	4/28/2009	769.0	<LLD		1.65E-02
6	0.2 MI SSW - INFORMATION CENTER	5/4/2009	543.5	<LLD		1.93E-02
6	0.2 MI SSW - INFORMATION CENTER	5/11/2009	632.7	<LLD		1.54E-02
6	0.2 MI SSW - INFORMATION CENTER	5/18/2009	620.7	<LLD		1.85E-02
6	0.2 MI SSW - INFORMATION CENTER	5/25/2009	617.0	<LLD		1.80E-02
6	0.2 MI SSW - INFORMATION CENTER	6/1/2009	645.6	<LLD		1.26E-02
6	0.2 MI SSW - INFORMATION CENTER	6/8/2009	616.8	<LLD		1.80E-02
6	0.2 MI SSW - INFORMATION CENTER	6/16/2009	731.9	<LLD		5.77E-03
6	0.2 MI SSW - INFORMATION CENTER	6/22/2009	534.7	<LLD		1.63E-02
6	0.2 MI SSW - INFORMATION CENTER	6/29/2009	634.3	<LLD		1.39E-02
6	0.2 MI SSW - INFORMATION CENTER	7/6/2009	640.5	<LLD		2.19E-02
6	0.2 MI SSW - INFORMATION CENTER	7/13/2009	631.1	<LLD		1.79E-02
6	0.2 MI SSW - INFORMATION CENTER	7/20/2009	639.4	<LLD		1.28E-02
6	0.2 MI SSW - INFORMATION CENTER	7/28/2009	721.6	<LLD		1.34E-02
6	0.2 MI SSW - INFORMATION CENTER	8/3/2009	542.4	<LLD		1.74E-02
6	0.2 MI SSW - INFORMATION CENTER	8/10/2009	619.7	<LLD		1.58E-02
6	0.2 MI SSW - INFORMATION CENTER	8/18/2009	721.4	<LLD		1.33E-02
6	0.2 MI SSW - INFORMATION CENTER	8/24/2009	543.0	<LLD		2.35E-02
6	0.2 MI SSW - INFORMATION CENTER	8/31/2009	636.6	<LLD		1.42E-02
6	0.2 MI SSW - INFORMATION CENTER	9/8/2009	715.2	<LLD		1.50E-02
6	0.2 MI SSW - INFORMATION CENTER	9/15/2009	631.5	<LLD		1.84E-02
6	0.2 MI SSW - INFORMATION CENTER	9/22/2009	631.0	<LLD		2.29E-02
6	0.2 MI SSW - INFORMATION CENTER	9/28/2009	543.9	<LLD		1.73E-02
6	0.2 MI SSW - INFORMATION CENTER	10/6/2009	708.2	<LLD		1.79E-02

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
6	0.2 MI SSW - INFORMATION CENTER	10/12/2009	537.7	<LLD		1.67E-02
6	0.2 MI SSW - INFORMATION CENTER	10/20/2009	701.1	<LLD		1.36E-02
6	0.2 MI SSW - INFORMATION CENTER	10/25/2009	441.1	<LLD		2.30E-02
6	0.2 MI SSW - INFORMATION CENTER	11/2/2009	706.3	<LLD		1.89E-02
6	0.2 MI SSW - INFORMATION CENTER	11/9/2009	621.8	<LLD		1.78E-02
6	0.2 MI SSW - INFORMATION CENTER	11/16/2009	612.8	<LLD		1.91E-02
6	0.2 MI SSW - INFORMATION CENTER	11/22/2009	524.4	<LLD		1.50E-02
6	0.2 MI SSW - INFORMATION CENTER	11/30/2009	709.6	<LLD		1.18E-02
6	0.2 MI SSW - INFORMATION CENTER	12/7/2009	605.1	<LLD		1.85E-02
6	0.2 MI SSW - INFORMATION CENTER	12/14/2009	606.9	<LLD		2.08E-02
6	0.2 MI SSW - INFORMATION CENTER	12/20/2009	525.2	<LLD		2.23E-02
6	0.2 MI SSW - INFORMATION CENTER	12/28/2009	679.4	<LLD		1.86E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	1/5/2009	564.1	<LLD		2.49E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	1/13/2009	628.2	<LLD		1.71E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	1/19/2009	471.4	<LLD		1.90E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	1/26/2009	554.7	<LLD		2.18E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	2/1/2009	465.6	<LLD		1.88E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	2/9/2009	646.8	<LLD		1.47E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	2/16/2009	562.6	<LLD		1.77E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	2/23/2009	558.2	<LLD		2.08E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	3/2/2009	554.0	<LLD		1.99E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	3/9/2009	551.5	<LLD		1.52E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	3/16/2009	535.7	<LLD		1.39E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	3/23/2009	578.7	<LLD		1.38E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	3/30/2009	698.3	<LLD		9.51E-03

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	4/6/2009	718.8		<LLD	1.69E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	4/13/2009	735.8		<LLD	1.01E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	4/20/2009	729.7		<LLD	1.67E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	4/28/2009	848.2		<LLD	1.67E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	5/4/2009	548.1		<LLD	2.35E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	5/11/2009	635.6		<LLD	2.22E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	5/18/2009	622.7		<LLD	1.76E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	5/25/2009	622.6		<LLD	1.31E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	6/1/2009	654.7		<LLD	1.52E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	6/8/2009	615.2		<LLD	1.51E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	6/16/2009	728.6		<LLD	1.67E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	6/22/2009	537.1		<LLD	1.44E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	6/29/2009	640.9		<LLD	1.94E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	7/6/2009	644.8		<LLD	2.24E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	7/13/2009	656.7		<LLD	1.51E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	7/20/2009	621.5		<LLD	1.80E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	7/28/2009	730.7		<LLD	1.42E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	8/3/2009	549.0		<LLD	1.85E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	8/10/2009	647.9		<LLD	1.88E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	8/18/2009	728.4		<LLD	8.17E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	8/24/2009	547.5		<LLD	1.44E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	8/31/2009	646.0		<LLD	1.22E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	9/8/2009	724.0		<LLD	1.16E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	9/15/2009	639.5		<LLD	1.10E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	9/22/2009	642.1		<LLD	1.55E-02



# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	9/28/2009	545.0	<LLD		1.43E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	10/6/2009	724.3	<LLD		8.26E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	10/12/2009	545.6	<LLD		1.33E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	10/20/2009	721.8	<LLD		9.37E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	10/25/2009	447.3	<LLD		1.66E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	11/2/2009	722.4	<LLD		1.79E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	11/9/2009	625.0	<LLD		1.29E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	11/16/2009	625.5	<LLD		1.40E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	11/22/2009	536.5	<LLD		1.80E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	11/30/2009	721.9	<LLD		8.26E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	12/7/2009	614.7	<LLD		1.99E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	12/14/2009	630.3	<LLD		1.21E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	12/20/2009	529.8	<LLD		1.65E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI	12/28/2009	691.8	<LLD		1.78E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	1/5/2009	549.0	<LLD		2.16E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	1/13/2009	608.8	<LLD		1.20E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	1/19/2009	465.5	<LLD		1.68E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	1/26/2009	592.9	<LLD		1.34E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/1/2009	458.5	<LLD		2.67E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/9/2009	624.7	<LLD		1.87E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	535.5	<LLD		1.97E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/23/2009	541.3	<LLD		1.57E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	3/2/2009	539.2	<LLD		9.65E-03
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	3/9/2009	534.6	<LLD		1.83E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	3/16/2009	530.8	<LLD		1.92E-02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/23/2009	615.4	<LLD		2.04E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	3/30/2009	705.6	<LLD		1.50E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/6/2009	770.2	<LLD		1.37E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/13/2009	818.8	<LLD		9.19E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/20/2009	850.6	<LLD		1.17E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	4/28/2009	695.4	<LLD		1.05E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/4/2009	527.5	<LLD		1.63E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/11/2009	623.7	<LLD		1.26E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/18/2009	606.2	<LLD		9.32E-03
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	5/25/2009	624.9	<LLD		2.03E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/1/2009	631.5	<LLD		2.01E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/8/2009	638.8	<LLD		1.91E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/16/2009	739.0	<LLD		1.39E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/22/2009	626.9	<LLD		1.51E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	6/29/2009	417.4	<LLD		2.10E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/6/2009	502.0	<LLD		1.40E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/13/2009	570.1	<LLD		1.38E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/20/2009	575.0	<LLD		2.22E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	7/28/2009	649.6	<LLD		1.87E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/3/2009	452.4	<LLD		2.09E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/10/2009	540.6	<LLD		2.15E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/18/2009	631.2	<LLD		1.64E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/24/2009	437.9	<LLD		1.75E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	8/31/2009	533.4	<LLD		2.28E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/8/2009	611.0	<LLD		1.89E-02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/15/2009	532.3	<LLD		1.75E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/22/2009	534.5	<LLD		1.97E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	9/28/2009	457.0	<LLD		2.09E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/6/2009	594.6	<LLD		1.01E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/12/2009	451.8	<LLD		2.67E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/20/2009	582.5	<LLD		1.93E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	10/25/2009	369.0	<LLD		2.76E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/2/2009	590.5	<LLD		1.78E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/9/2009	597.6	<LLD		1.18E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/16/2009	509.1	<LLD		1.39E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/22/2009	479.0	<LLD		2.02E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	11/30/2009	663.2	<LLD		1.46E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/7/2009	567.2	<LLD		1.42E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/14/2009	564.5	<LLD		2.24E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/20/2009	498.5	<LLD		1.55E-02
55	0.2 MI SSE - SOUTH OF WEST SETTLING POND	12/28/2009	638.4	<LLD		1.30E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	1/5/2009	658.2	<LLD		2.14E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	1/13/2009	730.5	<LLD		1.68E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	1/19/2009	548.3	<LLD		1.53E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	1/26/2009	645.8	<LLD		1.83E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	2/1/2009	551.4	<LLD		2.39E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	2/9/2009	747.9	<LLD		1.43E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	652.7	<LLD		1.62E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	2/23/2009	647.6	<LLD		5.73E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/2/2009	648.1	<LLD		1.48E-02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Efficiency</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
60	0.2 MI SE - ROBINSON PICNIC AREA	3/9/2009	645.2	<LLD		1.01E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	3/16/2009	654.1	<LLD		1.31E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	3/23/2009	582.8	<LLD		8.97E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	3/30/2009	584.1	<LLD		1.80E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	4/6/2009	581.4	<LLD		1.38E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	4/13/2009	588.0	<LLD		1.75E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	4/20/2009	588.2	<LLD		2.54E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	4/28/2009	657.2	<LLD		1.76E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	5/4/2009	496.2	<LLD		1.84E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	5/11/2009	556.8	<LLD		1.92E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	5/18/2009	571.4	<LLD		2.10E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	5/25/2009	580.1	<LLD		1.50E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	6/1/2009	595.2	<LLD		1.35E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	6/8/2009	565.5	<LLD		1.76E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	6/16/2009	664.7	<LLD		1.75E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	6/22/2009	488.0	<LLD		1.59E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	6/29/2009	576.5	<LLD		2.15E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	7/6/2009	582.0	<LLD		2.34E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	7/13/2009	578.7	<LLD		1.82E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	7/20/2009	579.0	<LLD		1.51E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	7/28/2009	650.9	<LLD		1.87E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	8/3/2009	493.8	<LLD		1.81E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	8/10/2009	577.1	<LLD		1.70E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	8/18/2009	652.4	<LLD		1.94E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	8/24/2009	490.1	<LLD		1.80E-02

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Efficiency</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
60	0.2 MI SE - ROBINSON PICNIC AREA	8/31/2009	576.7	<LLD		1.27E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	9/8/2009	656.2	<LLD		1.76E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	9/15/2009	578.1	<LLD		2.02E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	9/22/2009	571.5	<LLD		1.23E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	9/28/2009	493.9	<LLD		1.67E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	10/6/2009	649.0	<LLD		1.96E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	10/12/2009	361.2	<LLD		2.47E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	10/20/2009	544.4	<LLD		1.74E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	10/25/2009	408.0	<LLD		2.23E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	11/2/2009	658.8	<LLD		2.34E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	11/9/2009	582.2	<LLD		1.91E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	11/16/2009	575.0	<LLD		2.46E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	11/22/2009	484.4	<LLD		1.82E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	11/30/2009	665.6	<LLD		1.65E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	12/7/2009	570.6	<LLD		2.24E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	12/14/2009	573.3	<LLD		2.15E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	12/20/2009	500.9	<LLD		2.44E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	12/28/2009	644.5	<LLD		1.60E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	1/5/2009	657.0	<LLD		2.81E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	1/13/2009	732.6	<LLD		1.15E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	1/19/2009	545.7	<LLD		1.76E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	1/26/2009	641.0	<LLD		1.60E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	2/1/2009	547.2	<LLD		1.64E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	2/9/2009	743.3	<LLD		1.34E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	2/16/2009	648.1	<LLD		1.34E-02

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Efficiency	Activity	2 Sigma Error	LLD
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	2/23/2009	643.0	<LLD		1.42E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	3/2/2009	637.2	<LLD		1.81E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	3/9/2009	586.3	<LLD		1.16E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	3/16/2009	607.0	<LLD		1.22E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	3/23/2009	567.0	<LLD		1.14E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	3/30/2009	583.5	<LLD		1.81E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	4/6/2009	579.7	<LLD		1.57E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	4/13/2009	572.6	<LLD		1.89E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	4/20/2009	575.1	<LLD		1.80E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	4/28/2009	666.4	<LLD		1.91E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	5/4/2009	513.1	<LLD		2.40E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	5/11/2009	606.2	<LLD		2.16E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	5/18/2009	641.8	<LLD		1.51E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	5/25/2009	536.3	<LLD		2.46E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	6/1/2009	616.2	<LLD		1.81E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	6/8/2009	586.6	<LLD		2.08E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	6/16/2009	756.5	<LLD		1.46E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	6/22/2009	447.3	<LLD		2.45E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	6/29/2009	601.5	<LLD		1.57E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	7/6/2009	607.0	<LLD		1.53E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	7/13/2009	594.5	<LLD		1.65E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	7/20/2009	608.8	<LLD		1.90E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	7/28/2009	682.9	<LLD		1.23E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	8/3/2009	513.7	<LLD		1.84E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	8/10/2009	607.7	<LLD		6.67E-03

# RNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Efficiency</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	8/18/2009	684.1	<LLD		1.32E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	8/24/2009	514.5	<LLD		1.76E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	8/31/2009	603.7	<LLD		1.79E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	9/8/2009	678.5	<LLD		1.33E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	9/15/2009	598.1	<LLD		1.74E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	9/22/2009	596.6	<LLD		1.77E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	9/28/2009	514.2	<LLD		1.62E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	10/6/2009	672.2	<LLD		1.26E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	10/12/2009	509.9	<LLD		2.40E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	10/20/2009	661.8	<LLD		1.02E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	10/25/2009	412.3	<LLD		2.53E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	11/2/2009	666.4	<LLD		1.67E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	11/9/2009	576.8	<LLD		1.71E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	11/16/2009	568.9	<LLD		2.33E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	11/22/2009	485.2	<LLD		1.82E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	11/30/2009	642.6	<LLD		1.19E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	12/7/2009	542.5	<LLD		1.73E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	12/14/2009	539.5	<LLD		2.12E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	12/20/2009	467.8	<LLD		2.44E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC	12/28/2009	592.3	<LLD		1.51E-02

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Efficiency</b></i>	<i><b>Quantity</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
42 UNIT 1 DEEP WELLS	3/9/2009	0.405	0.005	<LLD		2.06E+02
42 UNIT 1 DEEP WELLS	6/16/2009	0.401	0.005	<LLD		2.08E+02
42 UNIT 1 DEEP WELLS	8/24/2009	0.406	0.005	<LLD		2.03E+02
42 UNIT 1 DEEP WELLS	9/23/2009	0.405	0.005	<LLD		2.02E+02
42 UNIT 1 DEEP WELLS	11/30/2009	0.407	0.005	<LLD		2.06E+02
64 0.6 MI SE - ARTESIAN WELL	3/9/2009	0.405	0.005	<LLD		2.06E+02
64 0.6 MI SE - ARTESIAN WELL	6/16/2009	0.405	0.005	<LLD		2.03E+02
64 0.6 MI SE - ARTESIAN WELL	8/24/2009	0.407	0.005	<LLD		2.03E+02
64 0.6 MI SE - ARTESIAN WELL	9/22/2009	0.404	0.005	<LLD		2.04E+02
64 0.6 MI SE - ARTESIAN WELL	11/30/2009	0.407	0.005	<LLD		2.06E+02
68 WELL A BETWN UNIT 1 SWITCHYARD AND BREAKROO	9/23/2009	0.404	0.005	4.01E+02	1.27E+02	2.04E+02
68 WELL A BETWN UNIT 1 SWITCHYARD AND BREAKROO	11/30/2009	0.399	0.005	3.03E+02	1.30E+02	2.10E+02
69 WELL B BEHIND THE TRAINING BUILDING	9/23/2009	0.404	0.005	<LLD		2.04E+02
69 WELL B BEHIND THE TRAINING BUILDING	11/30/2009	0.397	0.005	<LLD		2.11E+02
70 WELL C BETWN O AND M BUILDING & FAB SHOP	9/25/2009	0.404	0.005	<LLD		2.04E+02
70 WELL C BETWN O AND M BUILDING & FAB SHOP	11/30/2009	0.4	0.005	<LLD		2.09E+02
71 0.87 MI NNW - MW-03A BETWN ASH POND & RR TRACK	9/23/2009	0.405	0.005	1.60E+03	1.37E+02	2.03E+02
71 0.87 MI NNW - MW-03A BETWN ASH POND & RR TRACK	11/30/2009	0.4	0.005	1.65E+03	1.41E+02	2.09E+02
72 0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HYDRANT	9/21/2009	0.404	0.005	4.66E+02	1.28E+02	2.04E+02
72 0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HYDRANT	12/1/2009	0.4	0.005	4.17E+02	1.31E+02	2.09E+02
73 0.11 MI ENE - MW-13 BETWN DISCHARGE CANAL & U/1	9/22/2009	0.404	0.005	1.70E+03	1.38E+02	2.04E+02
73 0.11 MI ENE - MW-13 BETWN DISCHARGE CANAL & U/1	12/1/2009	0.401	0.005	1.29E+03	1.38E+02	2.09E+02
74 0.96 MI NNW - P-08-ASH 20 FT. W OF RR TRACKS AND	12/1/2009	0.398	0.005	1.26E+03	1.38E+02	2.10E+02
75 0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE TO U/2	9/22/2009	0.403	0.005	6.33E+02	1.30E+02	2.04E+02



# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Efficiency</b></i>	<i><b>Quantity</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE TO U/2	12/1/2009	0.399	0.005	4.47E+02	1.31E+02	2.10E+02
76	0.49 MI N - PSW-03 NE CORNER OF THE MET TOWER S	9/23/2009	0.404	0.005	3.77E+02	1.27E+02	2.04E+02
76	0.49 MI N - PSW-03 NE CORNER OF THE MET TOWER S	12/1/2009	0.398	0.005	3.06E+02	1.30E+02	2.10E+02
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO U/1	9/22/2009	0.404	0.005	4.55E+02	1.28E+02	2.04E+02
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO U/1	12/2/2009	0.399	0.005	4.00E+02	1.31E+02	2.10E+02
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SETTLING	9/22/2009	0.404	0.005	4.06E+02	1.27E+02	2.04E+02
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SETTLING	12/2/2009	0.399	0.005	3.39E+02	1.30E+02	2.10E+02
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCHARGE C	9/23/2009	0.403	0.005	4.06E+03	1.56E+02	2.04E+02
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCHARGE C	11/30/2009	0.398	0.005	3.47E+03	1.55E+02	2.10E+02
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET TOWER S	9/23/2009	0.404	0.005	1.75E+03	1.39E+02	2.04E+02
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET TOWER S	12/1/2009	0.398	0.005	1.48E+03	1.40E+02	2.10E+02
81	0.19 MI SSE - TS-17B W OF WEST SETTLING POND AC	9/22/2009	0.404	0.005	5.60E+02	1.29E+02	2.04E+02
81	0.19 MI SSE - TS-17B W OF WEST SETTLING POND AC	12/2/2009	0.399	0.005	4.45E+02	1.31E+02	2.10E+02

# ***RNP Radiological Environmental Monitoring Analysis Report***

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Efficiency</b></i>	<i><b>Quantity</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>	
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	1/18/2009	0.405	0.005	3.46E+03	1.53E+02	2.07E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	2/15/2009	0.405	0.005	1.88E+03	1.42E+02	2.08E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	3/19/2009	0.405	0.005	1.47E+03	1.38E+02	2.06E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	4/20/2009	0.404	0.005	1.02E+03	1.35E+02	2.08E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	5/21/2009	0.403	0.005	1.72E+03	1.40E+02	2.07E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	6/22/2009	0.406	0.005	1.88E+03	1.41E+02	2.06E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	7/20/2009	0.401	0.005	1.41E+03	1.39E+02	2.10E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	8/21/2009	0.403	0.005	1.51E+03	1.38E+02	2.06E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	9/22/2009	0.405	0.005	1.37E+03	1.36E+02	2.04E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	10/19/2009	0.405	0.005	1.06E+03	1.36E+02	2.10E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	11/19/2009	0.406	0.005	2.69E+03	1.47E+02	2.07E+02
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) &	12/21/2009	0.404	0.005	2.89E+03	1.51E+02	2.11E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	0.405	0.005	<LLD		2.07E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	0.407	0.005	<LLD		2.07E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	0.406	0.005	<LLD		2.06E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	0.404	0.005	<LLD		2.08E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	0.404	0.005	<LLD		2.06E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	0.406	0.005	<LLD		2.06E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	0.403	0.005	<LLD		2.09E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	0.404	0.005	<LLD		2.06E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	0.403	0.005	<LLD		2.05E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	0.404	0.005	<LLD		2.11E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	0.406	0.005	<LLD		2.07E+02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	0.405	0.005	<LLD		2.10E+02

# *RNP Radiological Environmental Monitoring Analysis Report*

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

<i>Sample Point</i>	<i>Sample Date</i>	<i>Efficiency</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>	
57	ASH POND	1/18/2009	0.405	0.005	3.33E+03	1.52E+02	2.07E+02
57	ASH POND	2/15/2009	0.406	0.005	2.04E+03	1.43E+02	2.08E+02
57	ASH POND	3/19/2009	0.406	0.005	1.34E+03	1.36E+02	2.06E+02
57	ASH POND	4/20/2009	0.404	0.005	7.78E+02	1.33E+02	2.08E+02
57	ASH POND	5/21/2009	0.406	0.005	1.13E+03	1.34E+02	2.05E+02
57	ASH POND	6/22/2009	0.407	0.005	1.51E+03	1.38E+02	2.06E+02
57	ASH POND	7/20/2009	0.405	0.005	1.27E+03	1.37E+02	2.08E+02
57	ASH POND	8/21/2009	0.404	0.005	1.27E+03	1.36E+02	2.06E+02
57	ASH POND	9/22/2009	0.404	0.005	1.36E+03	1.36E+02	2.05E+02
57	ASH POND	10/19/2009	0.404	0.005	1.05E+03	1.37E+02	2.11E+02
57	ASH POND	11/19/2009	0.404	0.005	1.16E+03	1.36E+02	2.08E+02
57	ASH POND	12/21/2009	0.404	0.005	2.28E+03	1.46E+02	2.11E+02
66	Black Creek between Prestwood Lake discharge and upstre	1/18/2009	0.405	0.005	2.83E+03	1.49E+02	2.07E+02
66	Black Creek between Prestwood Lake discharge and upstre	2/15/2009	0.406	0.005	1.65E+03	1.40E+02	2.08E+02
66	Black Creek between Prestwood Lake discharge and upstre	3/19/2009	0.406	0.005	1.15E+03	1.35E+02	2.06E+02
66	Black Creek between Prestwood Lake discharge and upstre	4/20/2009	0.405	0.005	8.05E+02	1.33E+02	2.08E+02
66	Black Creek between Prestwood Lake discharge and upstre	5/21/2009	0.405	0.005	1.13E+03	1.34E+02	2.06E+02
66	Black Creek between Prestwood Lake discharge and upstre	6/22/2009	0.405	0.005	1.51E+03	1.38E+02	2.07E+02
66	Black Creek between Prestwood Lake discharge and upstre	7/20/2009	0.405	0.005	7.94E+02	1.33E+02	2.08E+02
66	Black Creek between Prestwood Lake discharge and upstre	8/21/2009	0.404	0.005	9.17E+02	1.33E+02	2.06E+02
66	Black Creek between Prestwood Lake discharge and upstre	9/22/2009	0.401	0.005	8.25E+02	1.32E+02	2.06E+02
66	Black Creek between Prestwood Lake discharge and upstre	10/19/2009	0.405	0.005	7.74E+02	1.34E+02	2.10E+02
66	Black Creek between Prestwood Lake discharge and upstre	11/19/2009	0.406	0.005	2.09E+03	1.43E+02	2.07E+02
66	Black Creek between Prestwood Lake discharge and upstre	12/21/2009	0.404	0.005	2.39E+03	1.47E+02	2.11E+02

# **2009 HBRSEP (RNP)**

## **Radiological Environmental Monitoring Gamma Isotopic Report**

### **Comments**

- The Less than LLD (<LLD) represents that no activity was present, but lists the LLD values.
- There are no 2 sigma error values reported when activity is <LLD.
- NO-ACT refers to no detectable gamma activity being present in the samples. Refer to Table 6 for typical gamma Lower Limits of Detection for specific nuclides.

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Air Particulate

Quantity: CUBIC METERS

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	7551.5	K-40	1.23E-02	5.29E-03
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	7551.5	BE-7	1.53E-01	1.88E-02
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	7551.5	PB-214	2.39E-03	1.09E-03
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	7551.5	BI-214	2.17E-03	8.46E-04
1	24.4 MI ESE - FLORENCE - CONTROL	2/16/2009	7551.5	PB-212	7.71E-04	6.17E-04
1	24.4 MI ESE - FLORENCE - CONTROL	5/18/2009	7795.1	BE-7	1.37E-01	2.02E-02
1	24.4 MI ESE - FLORENCE - CONTROL	5/18/2009	7795.1	K-40	3.24E-02	1.03E-02
1	24.4 MI ESE - FLORENCE - CONTROL	8/17/2009	8000	K-40	2.04E-02	9.65E-03
1	24.4 MI ESE - FLORENCE - CONTROL	8/17/2009	8000	PB-212	1.20E-03	7.78E-04
1	24.4 MI ESE - FLORENCE - CONTROL	8/17/2009	8000	BE-7	1.42E-01	1.98E-02
1	24.4 MI ESE - FLORENCE - CONTROL	11/16/2009	7813.9	K-40	2.83E-02	9.65E-03
1	24.4 MI ESE - FLORENCE - CONTROL	11/16/2009	7813.9	BE-7	1.06E-01	1.68E-02
2	0.2 MI S - INFORMATION CENTER	2/16/2009	7256.8	PB-214	1.49E-03	1.12E-03
2	0.2 MI S - INFORMATION CENTER	2/16/2009	7256.8	BE-7	1.43E-01	2.08E-02
2	0.2 MI S - INFORMATION CENTER	2/16/2009	7256.8	K-40	2.11E-02	8.60E-03
2	0.2 MI S - INFORMATION CENTER	2/16/2009	7256.8	BI-214	1.12E-03	1.04E-03
2	0.2 MI S - INFORMATION CENTER	5/18/2009	7821.4	PB-214	2.64E-03	1.18E-03
2	0.2 MI S - INFORMATION CENTER	5/18/2009	7821.4	BI-214	2.04E-03	9.66E-04
2	0.2 MI S - INFORMATION CENTER	5/18/2009	7821.4	K-40	1.81E-02	8.20E-03
2	0.2 MI S - INFORMATION CENTER	5/18/2009	7821.4	BE-7	1.20E-01	1.86E-02
2	0.2 MI S - INFORMATION CENTER	8/17/2009	7714.9	K-40	3.59E-02	9.98E-03
2	0.2 MI S - INFORMATION CENTER	8/17/2009	7714.9	BE-7	1.38E-01	2.07E-02
2	0.2 MI S - INFORMATION CENTER	11/16/2009	7699.1	BE-7	9.12E-02	1.82E-02
2	0.2 MI S - INFORMATION CENTER	11/16/2009	7699.1	K-40	2.96E-02	1.03E-02
3	0.5 MI N - MICROWAVE TOWER	2/16/2009	8052	K-40	1.79E-02	8.85E-03
3	0.5 MI N - MICROWAVE TOWER	2/16/2009	8052	BE-7	1.46E-01	1.93E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Air Particulate

Quantity: CUBIC METERS

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
3	0.5 MI N - MICROWAVE TOWER	5/18/2009	7842.5	PB-214	1.16E-03	6.65E-04
3	0.5 MI N - MICROWAVE TOWER	5/18/2009	7842.5	BI-214	1.40E-03	1.31E-03
3	0.5 MI N - MICROWAVE TOWER	5/18/2009	7842.5	BE-7	1.50E-01	2.16E-02
3	0.5 MI N - MICROWAVE TOWER	8/17/2009	7234.9	PB-214	1.83E-03	8.84E-04
3	0.5 MI N - MICROWAVE TOWER	8/17/2009	7234.9	BE-7	1.53E-01	2.21E-02
3	0.5 MI N - MICROWAVE TOWER	8/17/2009	7234.9	BI-214	1.38E-03	9.75E-04
3	0.5 MI N - MICROWAVE TOWER	8/17/2009	7234.9	K-40	1.46E-02	7.46E-03
3	0.5 MI N - MICROWAVE TOWER	11/16/2009	6997.4	PB-214	1.36E-03	1.04E-03
3	0.5 MI N - MICROWAVE TOWER	11/16/2009	6997.4	RA-226	1.34E-02	5.99E-03
3	0.5 MI N - MICROWAVE TOWER	11/16/2009	6997.4	K-40	1.81E-02	7.19E-03
3	0.5 MI N - MICROWAVE TOWER	11/16/2009	6997.4	BE-7	1.16E-01	1.72E-02
4	0.4 MI ESE - SPILLWAY	2/16/2009	7431.2	K-40	1.57E-02	7.96E-03
4	0.4 MI ESE - SPILLWAY	2/16/2009	7431.2	PB-214	4.05E-03	1.40E-03
4	0.4 MI ESE - SPILLWAY	2/16/2009	7431.2	BI-214	3.84E-03	1.22E-03
4	0.4 MI ESE - SPILLWAY	2/16/2009	7431.2	PB-212	1.11E-03	7.82E-04
4	0.4 MI ESE - SPILLWAY	2/16/2009	7431.2	BE-7	1.28E-01	2.10E-02
4	0.4 MI ESE - SPILLWAY	5/18/2009	8714.3	BE-7	1.16E-01	1.74E-02
4	0.4 MI ESE - SPILLWAY	5/18/2009	8714.3	K-40	2.44E-02	7.69E-03
4	0.4 MI ESE - SPILLWAY	5/18/2009	8714.3	BI-214	1.20E-03	8.62E-04
4	0.4 MI ESE - SPILLWAY	8/17/2009	8451.4	BE-7	1.14E-01	1.79E-02
4	0.4 MI ESE - SPILLWAY	11/16/2009	8022	PB-214	3.51E-03	1.20E-03
4	0.4 MI ESE - SPILLWAY	11/16/2009	8022	BE-7	9.96E-02	1.67E-02
4	0.4 MI ESE - SPILLWAY	11/16/2009	8022	K-40	1.20E-02	6.26E-03
4	0.4 MI ESE - SPILLWAY	11/16/2009	8022	BI-214	2.47E-03	1.08E-03
4	0.4 MI ESE - SPILLWAY	11/16/2009	8022	TH-234	1.82E-02	1.05E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/16/2009	7457.8	BI-214	3.01E-03	1.27E-03

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Air Particulate

Quantity: CUBIC METERS

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/16/2009	7457.8	PB-214	5.57E-03	1.38E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/16/2009	7457.8	K-40	2.68E-02	9.83E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/16/2009	7457.8	PB-212	2.22E-03	1.13E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	2/16/2009	7457.8	BE-7	1.51E-01	2.13E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/18/2009	7522.7	BE-7	1.47E-01	2.16E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/18/2009	7522.7	BI-214	2.94E-03	1.01E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	5/18/2009	7522.7	K-40	3.55E-02	1.00E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/17/2009	7459.6	BI-214	1.51E-03	8.86E-04
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/17/2009	7459.6	K-40	2.87E-02	8.85E-03
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	8/17/2009	7459.6	BE-7	1.40E-01	1.87E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/16/2009	7394.4	BE-7	1.16E-01	1.84E-02
5	0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN	11/16/2009	7394.4	K-40	2.06E-02	8.98E-03
6	0.2 MI SSW - INFORMATION CENTER	2/16/2009	7605.1	BE-7	1.32E-01	1.86E-02
6	0.2 MI SSW - INFORMATION CENTER	2/16/2009	7605.1	K-40	1.86E-02	6.92E-03
6	0.2 MI SSW - INFORMATION CENTER	5/18/2009	8359.7	BE-7	1.12E-01	1.63E-02
6	0.2 MI SSW - INFORMATION CENTER	5/18/2009	8359.7	K-40	1.86E-02	7.48E-03
6	0.2 MI SSW - INFORMATION CENTER	5/18/2009	8359.7	BI-214	2.38E-03	9.63E-04
6	0.2 MI SSW - INFORMATION CENTER	5/18/2009	8359.7	PB-214	1.71E-03	9.87E-04
6	0.2 MI SSW - INFORMATION CENTER	8/17/2009	8217.3	BE-7	1.21E-01	1.83E-02
6	0.2 MI SSW - INFORMATION CENTER	8/17/2009	8217.3	BI-214	1.06E-03	7.91E-04
6	0.2 MI SSW - INFORMATION CENTER	8/17/2009	8217.3	RA-226	1.33E-02	1.00E-02
6	0.2 MI SSW - INFORMATION CENTER	8/17/2009	8217.3	PB-212	9.31E-04	5.07E-04
6	0.2 MI SSW - INFORMATION CENTER	11/16/2009	7979.6	BE-7	1.08E-01	1.89E-03
6	0.2 MI SSW - INFORMATION CENTER	11/16/2009	7979.6	K-40	3.96E-02	1.15E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	2/16/2009	7369.8	BE-7	1.53E-01	2.15E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/18/2009	8638	PB-212	6.66E-04	4.54E-04

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Air Particulate

Quantity: CUBIC METERS

Activity: pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/18/2009	8638	BE-7	1.09E-01	1.79E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	5/18/2009	8638	PB-214	2.33E-03	8.30E-04
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/17/2009	8323.1	BE-7	1.10E-01	1.87E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/17/2009	8323.1	RA-226	1.91E-02	9.56E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	8/17/2009	8323.1	K-40	2.44E-02	9.56E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	8136.9	RA-226	1.14E-02	9.85E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	8136.9	BE-7	8.47E-02	1.54E-02
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	8136.9	K-40	1.44E-02	7.76E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	8136.9	PB-214	1.09E-03	1.00E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	8136.9	TH-234	8.40E-03	5.66E-03
7	6.4 MI ESE - CP&L FACILITY ON RR AVE., HART	11/16/2009	8136.9	BI-214	9.97E-04	8.52E-04
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	7301.8	BE-7	1.61E-01	1.94E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	7301.8	K-40	1.10E-02	8.05E-03
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	7301.8	PB-214	3.32E-03	1.01E-03
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	7301.8	BI-214	4.27E-03	1.48E-03
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	7301.8	PB-212	1.19E-03	5.11E-04
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	2/16/2009	7301.8	TL-208	3.33E-04	3.15E-04
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	5/18/2009	8570.9	K-40	2.72E-02	9.28E-03
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	5/18/2009	8570.9	BE-7	1.28E-01	1.87E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	8/17/2009	7027	BE-7	1.27E-01	2.04E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	8/17/2009	7027	K-40	4.54E-02	1.37E-02
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	11/16/2009	7105.9	K-40	2.50E-02	9.90E-03
55	0.2 MI SSE - SOUTH OF WEST SETTling POND	11/16/2009	7105.9	BE-7	1.02E-01	1.69E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	8296.7	BE-7	1.38E-01	1.84E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	8296.7	K-40	2.11E-02	8.72E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	8296.7	BI-214	5.41E-03	1.28E-03



# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Activity: pCi/cubic meter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	8296.7	PB-212	1.62E-03	6.74E-04
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	8296.7	PB-214	4.36E-03	1.22E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	2/16/2009	8296.7	RA-226	1.08E-02	8.65E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	5/18/2009	7509.2	BE-7	1.13E-01	1.90E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	5/18/2009	7509.2	PB-214	1.62E-03	9.25E-04
60	0.2 MI SE - ROBINSON PICNIC AREA	8/17/2009	7480.4	BE-7	1.23E-01	1.75E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	8/17/2009	7480.4	BI-214	1.42E-03	7.95E-04
60	0.2 MI SE - ROBINSON PICNIC AREA	8/17/2009	7480.4	K-40	1.37E-02	6.03E-03
60	0.2 MI SE - ROBINSON PICNIC AREA	11/16/2009	7217.9	K-40	3.56E-02	1.03E-02
60	0.2 MI SE - ROBINSON PICNIC AREA	11/16/2009	7217.9	BE-7	9.51E-02	2.10E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/16/2009	8138.9	BE-7	1.27E-01	1.69E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/16/2009	8138.9	K-40	2.32E-02	7.51E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	2/16/2009	8138.9	RA-226	1.10E-02	7.60E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/18/2009	7699.3	TL-208	5.44E-04	2.76E-04
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/18/2009	7699.3	TH-234	1.80E-02	1.08E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/18/2009	7699.3	BE-7	1.27E-01	2.14E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	5/18/2009	7699.3	K-40	2.83E-02	9.92E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/17/2009	7804.3	BE-7	1.30E-01	2.03E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/17/2009	7804.3	K-40	3.38E-02	9.59E-03
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/17/2009	7804.3	BI-214	2.71E-03	9.95E-04
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	8/17/2009	7804.3	PB-214	2.14E-03	9.65E-04
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/16/2009	7338.2	K-40	2.27E-02	1.12E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/16/2009	7338.2	BE-7	1.16E-01	1.81E-02
61	0.3 MI WSW - WEST PARKING LOT NEAR RR TR	11/16/2009	7338.2	PB-214	2.33E-03	1.02E-03

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

*Media Type: Fish - Bottom Feeder*

*Quantity: Grams (wet)*

*Activity: pCi/gram wet*

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	885.7	K-40	3.40E+00	4.05E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	885.7	CS-137	3.18E-02	1.43E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	885.7	PB-212	2.21E-02	1.56E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	885.7	BI-214	4.22E-02	2.49E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	885.7	PB-214	2.13E-02	2.12E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	885.7	RA-226	3.52E-01	1.78E-01
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	1007.8	PB-212	4.11E-02	1.99E-02
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	1007.8	BI-214	6.08E-02	3.41E-02
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	1007.8	PB-214	6.42E-02	4.02E-02
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	1007.8	CS-137	3.29E-02	2.18E-02
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	1007.8	K-40	3.37E+00	4.84E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	585	CS-137	2.95E-02	1.85E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	585	PB-212	5.04E-02	3.47E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	585	RA-226	4.24E-01	2.90E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	585	K-40	3.78E+00	4.55E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	585	BI-214	6.21E-02	3.93E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	733.1	PB-212	5.53E-02	2.92E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	733.1	CS-137	5.29E-02	2.15E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	733.1	BI-214	6.25E-02	4.63E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	733.1	PB-214	6.17E-02	4.36E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	733.1	RA-226	7.20E-01	4.39E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	733.1	K-40	3.33E+00	5.38E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	K-40	2.90E+00	4.31E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	CS-137	2.69E-02	2.03E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	PB-212	6.35E-02	2.15E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	BI-214	8.69E-02	4.36E-02

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Fish - Bottom Feeder*

*Quantity: Grams (wet)*

*Activity: pCi/gram wet*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	PB-214	1.41E-01	3.75E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	AC-228	1.17E-01	6.28E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	625.6	RA-226	8.46E-01	3.46E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	AC-228	1.42E-01	5.07E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	K-40	3.55E+00	4.38E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	CS-137	3.78E-02	2.23E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	PB-212	8.77E-02	2.95E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	BI-214	2.12E-01	4.38E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	PB-214	1.86E-01	4.41E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	724.6	RA-226	6.30E-01	3.32E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Fish - Free Swimmer

Quantity: Grams (wet)

Activity: pCi/gram (wet)

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	710.7	CS-137	5.14E-02	1.56E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	710.7	BI-214	5.19E-02	2.61E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	710.7	PB-214	3.21E-02	2.71E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/19/2009	710.7	K-40	4.45E+00	4.93E-01
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	837.5	PB-214	8.27E-02	2.87E-02
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	837.5	K-40	3.95E+00	4.44E-01
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	837.5	CS-137	2.90E-02	1.44E-02
45	SITE VARIES WITHIN LAKE ROBINSON	11/12/2009	837.5	BI-214	7.24E-02	2.80E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	613.6	K-40	4.13E+00	5.10E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	613.6	RA-226	2.47E-01	2.80E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	613.6	PB-214	3.75E-02	3.69E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	613.6	BI-214	5.68E-02	3.23E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	613.6	TL-208	3.66E-02	1.57E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	613.6	CS-137	4.95E-02	1.95E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	CS-137	6.23E-02	1.65E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	TL-208	2.05E-02	1.37E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	PB-212	3.81E-02	1.79E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	BI-214	1.11E-01	3.43E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	PB-214	1.04E-01	3.24E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	AC-228	1.09E-01	5.46E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	11/12/2009	724.8	K-40	3.67E+00	4.38E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	K-40	3.70E+00	4.65E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	AC-228	7.29E-02	6.18E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	CS-137	6.78E-02	2.13E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	TL-208	2.21E-02	1.85E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	PB-212	6.79E-02	2.85E-02

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Fish - Free Swimmer*

*Quantity: Grams (wet)*

*Activity: pCi/gram (wet)*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	BI-214	7.31E-02	2.85E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	RA-226	7.46E-01	4.73E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	5/18/2009	629	PB-214	1.08E-01	3.73E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	828.7	PB-214	6.74E-02	3.42E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	828.7	K-40	3.44E+00	4.37E-01
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	828.7	CS-137	7.73E-02	2.42E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	828.7	PB-212	2.15E-02	2.12E-02
47	CONTROL STATION, ANY LAKE NOT INFLUENC	11/12/2009	828.7	BI-214	5.64E-02	3.03E-02

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CABBAGE

<b><i>Sample Point</i></b>		<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	BI-214	9.36E-02	2.10E-02	
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	K-40	1.43E+00	1.87E-01	
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	PB-212	2.43E-02	1.35E-02	
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	PB-214	6.36E-02	1.78E-02	
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	RA-226	1.88E-01	1.53E-01	
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	TH-234	4.79E-01	2.15E-01	
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	6/23/2009	727.8	TL-208	1.00E-02	6.59E-03	
58	SITE VARIES FROM PLANT	6/23/2009	631.4	BI-214	6.97E-02	2.22E-02	
58	SITE VARIES FROM PLANT	6/23/2009	631.4	K-40	2.80E+00	3.06E-01	
58	SITE VARIES FROM PLANT	6/23/2009	631.4	PB-212	3.34E-02	1.64E-02	
58	SITE VARIES FROM PLANT	6/23/2009	631.4	PB-214	5.10E-02	2.23E-02	
58	SITE VARIES FROM PLANT	6/23/2009	631.4	RA-226	3.13E-01	2.68E-01	
58	SITE VARIES FROM PLANT	6/23/2009	631.4	TH-234	3.76E-01	2.99E-01	

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: COLLARDS

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	11/6/2009	500.9	BI-214	1.57E-01	3.13E-02
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	11/6/2009	500.9	K-40	3.31E+00	3.60E-01
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	11/6/2009	500.9	PB-212	3.23E-02	2.26E-02
49	10.0 MI W OR GREATER THAN 5 MI FROM PLANT -	11/6/2009	500.9	PB-214	7.97E-02	3.15E-02
58	SITE VARIES FROM PLANT	11/6/2009	461.8	BI-214	2.13E-01	3.94E-02
58	SITE VARIES FROM PLANT	11/6/2009	461.8	K-40	3.33E+00	3.61E-01
58	SITE VARIES FROM PLANT	11/6/2009	461.8	PB-214	1.67E-01	3.39E-02
58	SITE VARIES FROM PLANT	11/6/2009	461.8	RA-226	7.21E-01	3.13E-01
58	SITE VARIES FROM PLANT	11/6/2009	461.8	TL-208	1.47E-02	8.79E-03

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
42 UNIT 1 DEEP WELLS	3/9/2009	1	TH-234	1.78E+02	1.45E+02	
42 UNIT 1 DEEP WELLS	3/9/2009	1	RA-226	2.39E+02	1.02E+02	
42 UNIT 1 DEEP WELLS	3/9/2009	1	PB-214	1.12E+02	1.51E+01	
42 UNIT 1 DEEP WELLS	3/9/2009	1	BI-214	1.14E+02	1.54E+01	
42 UNIT 1 DEEP WELLS	3/9/2009	1	PB-212	1.96E+01	7.93E+00	
42 UNIT 1 DEEP WELLS	3/9/2009	1	K-40	3.73E+02	7.06E+01	
42 UNIT 1 DEEP WELLS	6/16/2009	1	PB-212	1.44E+01	6.95E+00	
42 UNIT 1 DEEP WELLS	6/16/2009	1	K-40	5.39E+02	8.57E+01	
42 UNIT 1 DEEP WELLS	6/16/2009	1	PB-214	2.70E+01	1.03E+01	
42 UNIT 1 DEEP WELLS	6/16/2009	1	TH-234	2.01E+02	1.53E+02	
42 UNIT 1 DEEP WELLS	6/16/2009	1	BI-214	3.85E+01	1.39E+01	
42 UNIT 1 DEEP WELLS	8/24/2009	1	PB-212	1.41E+01	7.20E+00	
42 UNIT 1 DEEP WELLS	8/24/2009	1	K-40	2.06E+02	6.17E+01	
42 UNIT 1 DEEP WELLS	8/24/2009	1	TH-234	1.71E+02	1.68E+02	
42 UNIT 1 DEEP WELLS	8/24/2009	1	RA-226	3.08E+02	1.09E+02	
42 UNIT 1 DEEP WELLS	8/24/2009	1	BI-214	5.23E+01	1.17E+01	
42 UNIT 1 DEEP WELLS	8/24/2009	1	PB-214	3.50E+01	1.22E+01	
42 UNIT 1 DEEP WELLS	9/23/2009	1	K-40	2.35E+02	6.56E+01	
42 UNIT 1 DEEP WELLS	9/23/2009	1	PB-212	1.93E+01	7.91E+00	
42 UNIT 1 DEEP WELLS	9/23/2009	1	BI-214	2.12E+01	8.92E+00	
42 UNIT 1 DEEP WELLS	9/23/2009	1	TH-234	3.13E+02	1.67E+02	
42 UNIT 1 DEEP WELLS	9/23/2009	1	PB-214	2.36E+01	1.02E+01	
42 UNIT 1 DEEP WELLS	9/23/2009	1	RA-226	2.21E+02	1.04E+02	
42 UNIT 1 DEEP WELLS	11/30/2009	1	BI-214	5.91E+01	1.45E+01	
42 UNIT 1 DEEP WELLS	11/30/2009	1	PB-214	5.65E+01	1.31E+01	
42 UNIT 1 DEEP WELLS	11/30/2009	1	TL-208	4.89E+00	3.28E+00	



# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
42	UNIT 1 DEEP WELLS	11/30/2009	1	K-40	4.61E+02	8.24E+01
42	UNIT 1 DEEP WELLS	11/30/2009	1	RA-226	1.98E+02	1.01E+02
64	0.6 MI SE - ARTESIAN WELL	3/9/2009	1	RA-226	1.98E+02	1.44E+02
64	0.6 MI SE - ARTESIAN WELL	3/9/2009	1	K-40	4.55E+02	8.24E+01
64	0.6 MI SE - ARTESIAN WELL	3/9/2009	1	PB-212	1.63E+01	6.98E+00
64	0.6 MI SE - ARTESIAN WELL	3/9/2009	1	BI-214	7.22E+01	1.40E+01
64	0.6 MI SE - ARTESIAN WELL	3/9/2009	1	PB-214	6.96E+01	1.48E+01
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	TL-208	9.10E+00	4.73E+00
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	PB-212	1.72E+01	6.75E+00
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	BI-214	5.61E+01	1.44E+01
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	PB-214	5.45E+01	1.24E+01
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	RA-226	1.52E+02	1.17E+02
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	TH-234	2.52E+02	1.71E+02
64	0.6 MI SE - ARTESIAN WELL	6/16/2009	1	K-40	3.51E+02	8.42E+01
64	0.6 MI SE - ARTESIAN WELL	8/24/2009	1	K-40	5.34E+02	8.63E+01
64	0.6 MI SE - ARTESIAN WELL	8/24/2009	1	BI-214	5.87E+01	1.24E+01
64	0.6 MI SE - ARTESIAN WELL	8/24/2009	1	PB-214	6.98E+01	1.20E+01
64	0.6 MI SE - ARTESIAN WELL	9/22/2009	1	K-40	2.42E+02	9.01E+01
64	0.6 MI SE - ARTESIAN WELL	9/22/2009	1	TH-234	2.43E+02	1.80E+02
64	0.6 MI SE - ARTESIAN WELL	9/22/2009	1	RA-226	2.13E+02	1.43E+02
64	0.6 MI SE - ARTESIAN WELL	9/22/2009	1	BI-214	4.09E+01	1.42E+01
64	0.6 MI SE - ARTESIAN WELL	9/22/2009	1	PB-212	1.70E+01	9.50E+00
64	0.6 MI SE - ARTESIAN WELL	9/22/2009	1	TL-208	1.03E+01	5.25E+00
64	0.6 MI SE - ARTESIAN WELL	11/30/2009	1	BI-214	1.13E+02	2.02E+01
64	0.6 MI SE - ARTESIAN WELL	11/30/2009	1	PB-212	1.92E+01	6.29E+00
64	0.6 MI SE - ARTESIAN WELL	11/30/2009	1	RA-226	3.21E+02	1.71E+02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
64	0.6 MI SE - ARTESIAN WELL	11/30/2009	1	K-40	2.62E+02	9.24E+01
64	0.6 MI SE - ARTESIAN WELL	11/30/2009	1	PB-214	1.08E+02	2.03E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	RA-226	1.55E+02	1.09E+02
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	TH-234	3.25E+02	1.78E+02
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	PB-214	2.18E+01	1.09E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	BI-214	3.00E+01	1.13E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	PB-212	1.70E+01	8.98E+00
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	K-40	4.47E+02	7.75E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	9/23/2009	1	TL-208	1.04E+01	5.35E+00
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	11/30/2009	1	BI-214	5.99E+01	1.55E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	11/30/2009	1	RA-226	1.97E+02	1.45E+02
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	11/30/2009	1	PB-214	4.80E+01	1.22E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	11/30/2009	1	PB-212	2.34E+01	8.11E+00
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	11/30/2009	1	K-40	4.83E+02	7.74E+01
68	WELL A BETWN UNIT 1 SWITCHYARD AND BRE	11/30/2009	1	TH-234	3.11E+02	1.55E+02
69	WELL B BEHIND THE TRAINING BUILDING	9/23/2009	1	PB-214	1.35E+01	1.23E+01
69	WELL B BEHIND THE TRAINING BUILDING	9/23/2009	1	K-40	5.80E+02	9.74E+01
69	WELL B BEHIND THE TRAINING BUILDING	9/23/2009	1	TL-208	1.32E+01	5.78E+00
69	WELL B BEHIND THE TRAINING BUILDING	9/23/2009	1	PB-212	2.03E+01	8.78E+00
69	WELL B BEHIND THE TRAINING BUILDING	9/23/2009	1	BI-214	2.94E+01	9.69E+00
69	WELL B BEHIND THE TRAINING BUILDING	11/30/2009	1	PB-212	1.70E+01	9.10E+00
69	WELL B BEHIND THE TRAINING BUILDING	11/30/2009	1	PB-214	4.13E+01	1.36E+01
69	WELL B BEHIND THE TRAINING BUILDING	11/30/2009	1	RA-226	1.21E+02	9.15E+01
69	WELL B BEHIND THE TRAINING BUILDING	11/30/2009	1	K-40	5.19E+02	9.47E+01
69	WELL B BEHIND THE TRAINING BUILDING	11/30/2009	1	BI-214	4.91E+01	1.22E+01
70	WELL C BETWN O AND M BUILDING & FAB SHO	9/25/2009	1	PB-214	2.29E+01	1.22E+01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
70	WELL C BETWN O AND M BUILDING & FAB SHO	9/25/2009	1	BI-214	3.27E+01	1.24E+01
70	WELL C BETWN O AND M BUILDING & FAB SHO	9/25/2009	1	PB-212	1.54E+01	7.98E+00
70	WELL C BETWN O AND M BUILDING & FAB SHO	9/25/2009	1	TL-208	7.70E+00	4.20E+00
70	WELL C BETWN O AND M BUILDING & FAB SHO	9/25/2009	1	RA-226	2.28E+02	1.34E+02
70	WELL C BETWN O AND M BUILDING & FAB SHO	9/25/2009	1	K-40	4.37E+02	7.73E+01
70	WELL C BETWN O AND M BUILDING & FAB SHO	11/30/2009	1	PB-214	4.70E+01	1.26E+01
70	WELL C BETWN O AND M BUILDING & FAB SHO	11/30/2009	1	BI-214	6.63E+01	1.23E+01
70	WELL C BETWN O AND M BUILDING & FAB SHO	11/30/2009	1	PB-212	1.28E+01	6.85E+00
70	WELL C BETWN O AND M BUILDING & FAB SHO	11/30/2009	1	RA-226	3.16E+02	1.10E+02
70	WELL C BETWN O AND M BUILDING & FAB SHO	11/30/2009	1	K-40	2.45E+02	6.85E+01
70	WELL C BETWN O AND M BUILDING & FAB SHO	11/30/2009	1	TH-234	2.63E+02	1.77E+02
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	9/23/2009	1	K-40	5.69E+02	8.53E+01
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	9/23/2009	1	TL-208	5.68E+00	3.79E+00
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	9/23/2009	1	PB-212	1.96E+01	9.75E+00
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	9/23/2009	1	BI-214	3.14E+01	1.23E+01
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	9/23/2009	1	PB-214	2.85E+01	1.07E+01
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	11/30/2009	1	K-40	4.56E+02	8.62E+01
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	11/30/2009	1	PB-212	1.69E+01	9.66E+00
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	11/30/2009	1	BI-214	2.22E+01	1.25E+01
71	0.87 MI NNW - MW-03A BETWN ASH POND & R	11/30/2009	1	PB-214	2.49E+01	9.69E+00
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	9/21/2009	1	PB-212	2.72E+01	9.85E+00
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	9/21/2009	1	RA-226	2.08E+02	1.32E+02
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	9/21/2009	1	BI-214	2.85E+01	1.08E+01
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	9/21/2009	1	TL-208	9.60E+00	6.43E+00
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	9/21/2009	1	K-40	4.81E+02	9.12E+01
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	9/21/2009	1	PB-214	2.53E+01	1.07E+01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	12/1/2009	1	BI-214	4.94E+01	1.74E+01
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	12/1/2009	1	PB-212	8.11E+01	1.09E+01
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	12/1/2009	1	RA-226	2.69E+02	1.25E+02
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	12/1/2009	1	TL-208	1.76E+01	7.78E+00
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	12/1/2009	1	PB-214	5.03E+01	1.51E+01
72	0.10 MI E - MW-06 20FT FROM FP/FH 7 FIRE HY	12/1/2009	1	K-40	2.39E+02	8.18E+01
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	9/22/2009	1	TH-234	2.99E+02	1.58E+02
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	9/22/2009	1	RA-226	2.15E+02	1.24E+02
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	9/22/2009	1	PB-214	3.22E+01	9.54E+00
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	9/22/2009	1	BI-214	2.72E+01	1.23E+01
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	9/22/2009	1	PB-212	1.12E+01	7.16E+00
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	9/22/2009	1	K-40	4.11E+02	7.63E+01
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	12/1/2009	1	BI-214	2.36E+01	1.16E+01
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	12/1/2009	1	PB-214	2.63E+01	1.09E+01
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	12/1/2009	1	TL-208	9.54E+00	4.42E+00
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	12/1/2009	1	K-40	5.73E+02	9.10E+01
73	0.11 MI ENE - MW-13 BETWN DISCHARGE CAN	12/1/2009	1	PB-212	1.28E+01	8.15E+00
74	0.96 MI NNW - P-08-ASH 20 FT. W OF RR TRAC	12/1/2009	1	K-40	2.41E+02	5.32E+01
74	0.96 MI NNW - P-08-ASH 20 FT. W OF RR TRAC	12/1/2009	1	BI-214	4.10E+01	1.10E+01
74	0.96 MI NNW - P-08-ASH 20 FT. W OF RR TRAC	12/1/2009	1	RA-226	2.25E+02	1.03E+02
74	0.96 MI NNW - P-08-ASH 20 FT. W OF RR TRAC	12/1/2009	1	PB-212	1.45E+01	7.51E+00
74	0.96 MI NNW - P-08-ASH 20 FT. W OF RR TRAC	12/1/2009	1	PB-214	3.58E+01	1.15E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	9/22/2009	1	TL-208	1.07E+01	6.74E+00
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	9/22/2009	1	PB-214	1.85E+01	1.16E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	9/22/2009	1	PB-212	4.09E+01	1.27E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	9/22/2009	1	K-40	5.33E+02	8.59E+01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	9/22/2009	1	RA-226	1.15E+02	9.86E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	9/22/2009	1	BI-214	2.39E+01	1.07E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	12/1/2009	1	TL-208	2.20E+01	6.70E+00
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	12/1/2009	1	PB-212	4.65E+01	1.35E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	12/1/2009	1	BI-214	3.18E+01	1.42E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	12/1/2009	1	RA-226	2.04E+02	1.31E+02
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	12/1/2009	1	K-40	2.24E+02	6.90E+01
75	0.05 MI NE - PSW-02 BY U/1 BOUNDARY FENCE	12/1/2009	1	TH-234	4.15E+02	2.19E+02
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	9/23/2009	1	BI-214	2.34E+01	1.04E+01
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	9/23/2009	1	RA-226	3.96E+02	1.29E+02
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	9/23/2009	1	TH-234	3.60E+02	1.75E+02
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	9/23/2009	1	K-40	4.70E+02	7.31E+01
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	9/23/2009	1	PB-212	1.52E+01	7.98E+00
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	9/23/2009	1	PB-214	2.29E+01	1.07E+01
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	12/1/2009	1	BI-214	3.74E+01	1.14E+01
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	12/1/2009	1	PB-212	1.47E+01	7.56E+00
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	12/1/2009	1	PB-214	2.48E+01	1.14E+01
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	12/1/2009	1	RA-226	1.88E+02	9.33E+01
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	12/1/2009	1	TH-234	1.87E+02	1.21E+02
76	0.49 MI N - PSW-03 NE CORNER OF THE MET T	12/1/2009	1	K-40	3.61E+02	6.99E+01
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	9/22/2009	1	K-40	2.52E+02	8.73E+01
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	9/22/2009	1	TL-208	1.40E+01	9.97E+00
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	9/22/2009	1	PB-212	1.46E+01	9.50E+00
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	9/22/2009	1	RA-226	2.05E+02	1.27E+02
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	9/22/2009	1	BI-214	2.51E+01	1.33E+01
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	12/2/2009	1	TH-234	2.03E+02	1.57E+02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	12/2/2009	1	BI-214	3.80E+01	9.11E+00
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	12/2/2009	1	RA-226	1.51E+02	9.52E+01
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	12/2/2009	1	PB-214	2.20E+01	1.39E+01
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	12/2/2009	1	K-40	2.65E+02	9.42E+01
77	0.25 MI SSE - TS-01B BY ENTRANCE ROAD TO	12/2/2009	1	PB-212	1.01E+01	6.48E+00
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	TH-234	2.33E+02	1.64E+02
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	TL-208	1.06E+01	7.27E+00
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	PB-212	1.67E+01	8.83E+00
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	BI-214	2.76E+01	1.35E+01
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	PB-214	3.42E+01	1.28E+01
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	RA-226	2.72E+02	1.25E+02
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	9/22/2009	1	K-40	2.88E+02	5.94E+01
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	PB-214	3.29E+01	1.09E+01
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	AC-228	2.55E+01	2.10E+01
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	RA-226	1.31E+02	1.18E+02
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	TL-208	1.52E+01	4.84E+00
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	BI-214	2.25E+01	1.26E+01
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	TH-234	3.15E+02	1.75E+02
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	PB-212	3.39E+01	9.82E+00
78	0.17 MI SSE - TS-02C NE CORNER BY EAST SE	12/2/2009	1	K-40	4.40E+02	8.08E+01
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	PB-214	2.61E+01	1.06E+01
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	BI-214	3.07E+01	9.69E+00
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	PB-212	2.87E+01	8.65E+00
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	TL-208	1.27E+01	5.99E+00
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	K-40	2.46E+02	5.94E+01
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	RA-226	2.11E+02	1.00E+02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Groundwater

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	9/23/2009	1	TH-234	3.86E+02	1.83E+02
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	TH-234	2.51E+02	1.97E+02
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	K-40	3.10E+02	6.59E+01
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	TL-208	6.11E+00	4.74E+00
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	PB-212	1.68E+01	1.03E+01
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	BI-214	5.60E+01	1.26E+01
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	RA-226	2.13E+02	1.13E+02
79	1.0 MI N - TS-07C S CORNER BY COVE & DISCH	11/30/2009	1	PB-214	4.63E+01	1.28E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	9/23/2009	1	RA-226	1.95E+02	1.38E+02
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	9/23/2009	1	PB-214	2.75E+01	1.12E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	9/23/2009	1	BI-214	3.00E+01	1.25E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	9/23/2009	1	PB-212	1.92E+01	1.04E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	9/23/2009	1	TL-208	8.51E+00	4.44E+00
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	9/23/2009	1	K-40	5.33E+02	1.16E+02
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	K-40	2.30E+02	9.47E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	PB-214	5.11E+01	1.77E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	TH-234	2.96E+02	2.78E+02
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	TL-208	8.65E+00	7.14E+00
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	PB-212	1.88E+01	9.44E+00
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	BI-214	5.78E+01	1.79E+01
80	0.97 MI NNW - TS-08C E OF DIRT RD TO MET T	12/1/2009	1	RA-226	3.69E+02	1.71E+02
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	9/22/2009	1	RA-226	2.32E+02	1.28E+02
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	9/22/2009	1	PB-214	4.17E+01	1.22E+01
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	9/22/2009	1	BI-214	4.51E+00	1.13E+00
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	9/22/2009	1	PB-212	1.74E+01	8.85E+00
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	9/22/2009	1	K-40	3.73E+02	7.53E+01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

*Media Type: Groundwater*

*Quantity: Liters*

*Activity: pCi/Liter*

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Isotope</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	9/22/2009	1	TL-208	7.12E+00	4.81E+00
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	12/2/2009	1	PB-214	5.29E+01	1.59E+01
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	12/2/2009	1	RA-226	1.51E+02	1.05E+02
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	12/2/2009	1	BI-214	5.47E+01	1.13E+01
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	12/2/2009	1	PB-212	2.27E+01	1.07E+01
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	12/2/2009	1	K-40	2.55E+02	7.18E+01
81	0.19 MI SSE - TS-17B W OF WEST SETTLING P	12/2/2009	1	TH-234	1.95E+02	1.70E+02



# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Bottom Sediment

Quantity: Grams (dry)

Activity: pCi/gram dry

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	BI-214	1.61E+00	2.19E-01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	K-40	2.77E+00	7.72E-01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	CS-137	1.21E-01	5.52E-02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	TL-208	6.50E-01	1.04E-01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	PB-212	2.15E+00	1.89E-01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	PB-214	1.69E+00	2.15E-01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	RA-226	4.81E+00	1.42E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	AC-228	1.86E+00	3.25E-01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	779.5	BI-212	8.90E-01	5.97E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	CS-137	6.42E-01	9.70E-02
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	K-40	4.20E+00	7.62E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	AC-228	1.54E+00	3.55E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	CO-60	1.92E-01	6.68E-02
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	PB-214	3.05E+00	2.77E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	TL-208	5.70E-01	9.47E-02
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	BI-212	1.19E+00	5.23E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	PB-212	1.63E+00	1.55E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	BI-214	2.75E+00	2.96E-01
45	SITE VARIES WITHIN LAKE ROBINSON	6/22/2009	575	RA-226	6.93E+00	1.67E+00
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	RA-226	6.42E+00	1.54E+00
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	TL-208	5.96E-01	9.29E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	PB-212	1.81E+00	1.77E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	BI-214	2.11E+00	2.73E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	PB-214	2.12E+00	2.31E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	AC-228	1.82E+00	3.42E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	BE-7	1.40E+00	6.03E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

*Media Type: Bottom Sediment*

*Quantity: Grams (dry)*

*Activity: pCi/gram dry*

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Isotope</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
46 SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	K-40	5.40E+00	9.75E-01	
46 SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	CS-137	3.92E-01	8.77E-02	
46 SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	BI-212	9.10E-01	4.37E-01	
46 SITE VARIES WITHIN PRESTWOOD LAKE	6/22/2009	477.7	CO-60	5.39E-02	5.12E-02	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	AC-228	1.03E+00	1.76E-01	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	K-40	1.87E+00	4.21E-01	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	TL-208	3.71E-01	5.87E-02	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	BI-212	5.39E-01	2.46E-01	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	PB-212	9.39E-01	9.39E-02	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	BI-214	6.45E-01	1.06E-01	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	PB-214	7.50E-01	1.04E-01	
66 Black Creek between Prestwood Lake discharge an	6/22/2009	1316.8	RA-226	1.85E+00	9.32E-01	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Shoreline Sediment

Quantity: Grams (dry)

Activity: pCi/gram dry

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	2/16/2009	1637.4	PB-214	1.47E-01	3.76E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	2/16/2009	1637.4	BI-214	1.71E-01	3.15E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	2/16/2009	1637.4	PB-212	9.63E-02	2.13E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	2/16/2009	1637.4	TL-208	3.00E-02	1.23E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	2/16/2009	1637.4	K-40	4.46E-01	1.33E-01
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	2/16/2009	1637.4	AC-228	9.30E-02	4.26E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	PB-214	1.18E-01	1.77E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	K-40	3.73E-01	7.22E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	AC-228	1.08E-01	2.27E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	BE-7	1.49E-01	5.26E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	TL-208	2.99E-02	6.62E-03
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	BI-212	6.11E-02	3.19E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	BI-214	1.33E-01	2.05E-02
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	RA-226	2.98E-01	1.51E-01
44	1.6 MI NNE - SHADY REST CLUB, EAST SHORE	8/20/2009	1490.3	PB-212	9.28E-02	1.15E-02
57	ASH POND	2/16/2009	812.5	PB-212	3.32E+00	2.42E-01
57	ASH POND	2/16/2009	812.5	K-40	2.06E+01	1.77E+00
57	ASH POND	2/16/2009	812.5	BI-212	1.98E+00	5.36E-01
57	ASH POND	2/16/2009	812.5	BI-214	3.92E+00	3.58E-01
57	ASH POND	2/16/2009	812.5	PB-214	4.06E+00	3.12E-01
57	ASH POND	2/16/2009	812.5	RA-226	9.01E+00	1.81E+00
57	ASH POND	2/16/2009	812.5	AC-228	2.88E+00	3.96E-01
57	ASH POND	2/16/2009	812.5	TH-234	5.72E+00	3.56E+00
57	ASH POND	2/16/2009	812.5	TL-208	1.04E+00	1.22E-01
57	ASH POND	8/31/2009	965.9	TH-234	3.99E+00	3.02E+00
57	ASH POND	8/31/2009	965.9	K-40	1.61E+01	1.59E+00

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

*Media Type: Shoreline Sediment*

*Quantity: Grams (dry)*

*Activity: pCi/gram dry*

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
57 ASH POND	8/31/2009	965.9	TL-208	9.42E-01	9.91E-02	
57 ASH POND	8/31/2009	965.9	BI-212	1.87E+00	5.10E-01	
57 ASH POND	8/31/2009	965.9	PB-212	2.83E+00	2.03E-01	
57 ASH POND	8/31/2009	965.9	BI-214	4.39E+00	3.61E-01	
57 ASH POND	8/31/2009	965.9	PB-214	4.57E+00	3.30E-01	
57 ASH POND	8/31/2009	965.9	AC-228	2.68E+00	3.10E-01	
57 ASH POND	8/31/2009	965.9	RA-226	1.06E+01	1.79E+00	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	1/18/2009	1.00	PB-212	1.09E+01	4.46E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	1/18/2009	1.00	K-40	5.18E+02	6.28E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	1/18/2009	1.00	TL-208	6.35E+00	2.47E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	2/15/2009	1.00	K-40	4.98E+02	5.23E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	2/15/2009	1.00	TL-208	6.34E+00	2.53E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	2/15/2009	1.00	PB-212	1.52E+01	4.91E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	2/15/2009	1.00	TH-234	1.99E+02	9.32E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	2/15/2009	1.00	BI-214	1.15E+01	5.09E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	2/15/2009	1.00	RA-226	1.29E+02	5.94E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	BI-214	1.58E+01	4.37E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	AC-228	1.25E+01	5.39E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	PB-214	1.40E+01	4.55E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	K-40	2.36E+02	3.33E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	TH-234	2.24E+02	7.02E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	PB-212	1.16E+01	3.04E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	RA-226	1.87E+02	4.27E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	3/19/2009	1.00	TL-208	4.00E+00	1.86E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	TH-234	1.98E+02	7.81E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	TL-208	7.42E+00	2.52E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	K-40	2.46E+02	3.23E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	RA-226	2.23E+02	4.81E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	BI-214	1.28E+01	4.94E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	PB-212	1.40E+01	3.44E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	AC-228	2.16E+01	8.14E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	4/20/2009	1.00	PB-214	1.15E+01	4.18E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	TH-234	2.27E+02	7.67E+01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	K-40	2.29E+02	3.01E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	TL-208	4.56E+00	1.76E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	BI-212	1.80E+01	1.32E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	PB-212	9.68E+00	3.10E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	BI-214	2.11E+01	3.96E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	PB-214	1.96E+01	4.62E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	5/21/2009	1.00	RA-226	1.92E+02	4.27E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	K-40	5.19E+02	5.06E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	RA-226	1.11E+02	4.45E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	PB-214	9.67E+00	4.39E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	BI-214	1.53E+01	4.24E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	PB-212	1.16E+01	3.55E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	TL-208	5.48E+00	1.94E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	6/22/2009	1.00	TH-234	9.60E+01	7.10E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	RA-226	2.02E+02	5.05E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	AC-228	7.24E+00	5.13E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	K-40	4.15E+02	4.12E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	PB-214	1.08E+01	3.68E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	BI-214	1.24E+01	3.39E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	PB-212	1.29E+01	3.37E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	TL-208	5.91E+00	2.13E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	7/20/2009	1.00	TH-234	2.41E+02	6.06E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	8/21/2009	1.00	K-40	5.36E+02	5.19E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	8/21/2009	1.00	TL-208	5.32E+00	2.06E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	8/21/2009	1.00	PB-212	9.22E+00	2.91E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	8/21/2009	1.00	BI-214	1.20E+01	3.87E+00

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	8/21/2009	1.00	TH-234	1.36E+02	7.05E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	8/21/2009	1.00	RA-226	1.22E+02	4.81E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	TH-234	1.47E+02	6.42E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	K-40	5.75E+02	5.16E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	TL-208	4.27E+00	1.95E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	PB-212	1.17E+01	3.25E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	BI-214	1.40E+01	3.85E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	PB-214	9.47E+00	4.71E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	AC-228	1.30E+01	7.42E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	9/22/2009	1.00	RA-226	1.18E+02	4.89E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	RA-226	1.19E+02	5.45E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	PB-214	1.23E+01	4.76E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	BI-214	1.29E+01	4.34E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	PB-212	6.97E+00	3.68E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	TL-208	5.18E+00	2.49E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	K-40	5.44E+02	5.00E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	10/19/2009	1.00	TH-234	2.10E+02	9.25E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	K-40	5.30E+02	4.94E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	TL-208	4.82E+00	2.48E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	PB-212	8.36E+00	3.32E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	BI-214	1.35E+01	4.40E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	PB-214	6.97E+00	3.66E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	RA-226	1.47E+02	4.97E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	11/19/2009	1.00	TH-234	1.67E+02	7.80E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	PB-212	6.82E+00	3.63E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	TL-208	3.16E+00	2.29E+00

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	BI-214	9.49E+00	3.78E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	PB-214	8.03E+00	4.02E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	RA-226	1.26E+02	4.48E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	AC-228	1.87E+01	7.99E+00
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	TH-234	9.85E+01	6.42E+01
40	0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-	12/21/2009	1.00	K-40	5.56E+02	5.22E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	TL-208	5.74E+00	2.35E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	RA-226	5.00E+01	2.85E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	PB-214	1.19E+01	4.06E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	PB-212	1.40E+01	3.39E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	TH-234	5.11E+01	4.28E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	K-40	9.45E+01	2.57E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	1/18/2009	1.00	BI-214	1.28E+01	3.84E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	BI-212	2.57E+01	1.43E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	PB-212	1.28E+01	4.02E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	TL-208	5.58E+00	2.12E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	K-40	2.22E+02	3.54E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	PB-214	1.34E+01	5.16E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	BI-214	2.20E+01	6.39E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	RA-226	1.76E+02	5.20E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	2/15/2009	1.00	TH-234	1.63E+02	7.92E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	1.00	K-40	2.34E+02	3.88E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	1.00	TH-234	2.02E+02	8.26E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	1.00	RA-226	2.20E+02	5.46E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	1.00	BI-214	1.52E+01	4.36E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	1.00	PB-212	1.38E+01	3.89E+00



# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<b>Sample Point</b>	<b>Sample Date</b>	<b>Quantity</b>	<b>Isotope</b>	<b>Activity</b>	<b>2 Sigma Error</b>	<b>LLD</b>
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	3/19/2009	1.00	TL-208	4.85E+00	1.90E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	RA-226	1.10E+02	4.70E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	TL-208	4.82E+00	1.91E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	PB-212	8.34E+00	2.84E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	BI-214	1.07E+01	3.63E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	TH-234	1.30E+02	6.10E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	AC-228	8.06E+00	7.44E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	PB-214	1.00E+01	4.44E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	4/20/2009	1.00	K-40	5.56E+02	5.04E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	K-40	4.93E+02	4.94E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	TL-208	4.74E+00	1.99E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	PB-212	1.19E+01	3.54E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	PB-214	1.15E+01	4.33E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	TH-234	1.35E+02	7.07E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	AC-228	1.07E+01	6.70E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	RA-226	1.78E+02	5.78E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/21/2009	1.00	BI-214	8.93E+00	4.26E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	RA-226	1.90E+02	3.97E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	PB-212	8.85E+00	2.98E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	TH-234	1.89E+02	7.13E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	PB-214	1.28E+01	4.45E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	BI-214	2.14E+01	3.68E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	TL-208	4.30E+00	1.90E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	6/22/2009	1.00	K-40	2.55E+02	3.08E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	PB-214	1.09E+01	4.91E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	PB-212	9.50E+00	3.59E+00

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	K-40	5.29E+02	4.95E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	TL-208	6.07E+00	2.27E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	TH-234	1.41E+02	7.04E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	BI-214	1.52E+01	4.53E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	AC-228	1.43E+01	7.10E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	7/20/2009	1.00	RA-226	1.42E+02	4.87E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	K-40	2.21E+02	3.08E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	TL-208	5.42E+00	2.31E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	PB-212	6.42E+00	2.71E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	BI-214	1.36E+01	3.77E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	PB-214	1.50E+01	4.16E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	RA-226	1.72E+02	3.53E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	TH-234	2.26E+02	6.43E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	8/21/2009	1.00	AC-228	9.22E+00	6.05E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	RA-226	1.80E+02	4.31E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	PB-214	8.76E+00	4.23E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	BI-214	1.00E+01	3.50E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	PB-212	1.40E+01	4.58E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	TL-208	5.27E+00	2.22E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	AC-228	1.48E+01	7.14E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	TH-234	1.88E+02	6.62E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	9/22/2009	1.00	K-40	4.36E+02	4.20E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	TH-234	2.55E+02	7.13E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	RA-226	2.23E+02	4.53E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	PB-214	2.11E+01	4.12E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	BI-214	2.81E+01	5.32E+00

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	TL-208	5.46E+00	1.94E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	PB-212	1.44E+01	2.73E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	10/19/2009	1.00	K-40	2.44E+02	3.34E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	PB-214	1.43E+01	3.99E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	K-40	2.27E+02	3.41E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	TL-208	6.72E+00	2.12E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	BI-214	2.06E+01	5.65E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	RA-226	1.45E+02	3.98E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	TH-234	1.96E+02	5.20E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	11/19/2009	1.00	PB-212	1.33E+01	3.76E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	BI-214	2.13E+01	4.18E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	TH-234	2.11E+02	7.04E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	RA-226	1.76E+02	4.56E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	PB-214	1.14E+01	4.61E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	TL-208	4.97E+00	1.65E+00
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	K-40	2.15E+02	3.29E+01
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	12/21/2009	1.00	PB-212	7.90E+00	2.90E+00
57	ASH POND	1/18/2009	1.00	BI-214	9.85E+00	3.86E+00
57	ASH POND	1/18/2009	1.00	AC-228	7.78E+00	4.37E+00
57	ASH POND	1/18/2009	1.00	RA-226	1.03E+02	3.32E+01
57	ASH POND	1/18/2009	1.00	K-40	1.27E+02	2.78E+01
57	ASH POND	1/18/2009	1.00	PB-212	7.33E+00	2.54E+00
57	ASH POND	1/18/2009	1.00	TH-234	4.45E+01	3.86E+01
57	ASH POND	1/18/2009	1.00	PB-214	1.09E+01	4.24E+00
57	ASH POND	1/18/2009	1.00	TL-208	4.75E+00	1.78E+00
57	ASH POND	2/15/2009	1.00	K-40	1.07E+03	8.22E+01

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
57	ASH POND	2/15/2009	1.00	PB-212	1.00E+01	3.77E+00
57	ASH POND	2/15/2009	1.00	TL-208	4.79E+00	2.38E+00
57	ASH POND	2/15/2009	1.00	TH-234	1.76E+02	1.11E+02
57	ASH POND	2/15/2009	1.00	BI-214	1.19E+01	6.35E+00
57	ASH POND	2/15/2009	1.00	RA-226	1.25E+02	5.65E+01
57	ASH POND	2/15/2009	1.00	AC-228	2.65E+01	9.51E+00
57	ASH POND	3/19/2009	1.00	TH-234	2.32E+02	6.86E+01
57	ASH POND	3/19/2009	1.00	PB-214	1.08E+01	4.37E+00
57	ASH POND	3/19/2009	1.00	RA-226	2.12E+02	4.88E+01
57	ASH POND	3/19/2009	1.00	K-40	3.87E+02	4.28E+01
57	ASH POND	3/19/2009	1.00	TL-208	7.58E+00	2.09E+00
57	ASH POND	3/19/2009	1.00	PB-212	1.76E+01	4.62E+00
57	ASH POND	3/19/2009	1.00	BI-214	1.37E+01	3.49E+00
57	ASH POND	3/19/2009	1.00	AC-228	1.58E+01	8.73E+00
57	ASH POND	4/20/2009	1.00	PB-212	1.59E+01	3.93E+00
57	ASH POND	4/20/2009	1.00	TL-208	7.50E+00	2.19E+00
57	ASH POND	4/20/2009	1.00	BI-214	1.52E+01	4.29E+00
57	ASH POND	4/20/2009	1.00	PB-214	1.68E+01	4.58E+00
57	ASH POND	4/20/2009	1.00	RA-226	1.93E+02	4.91E+01
57	ASH POND	4/20/2009	1.00	AC-228	1.69E+01	7.80E+00
57	ASH POND	4/20/2009	1.00	TH-234	2.68E+02	9.30E+01
57	ASH POND	4/20/2009	1.00	K-40	2.57E+02	3.87E+01
57	ASH POND	5/21/2009	1.00	RA-226	2.24E+02	5.19E+01
57	ASH POND	5/21/2009	1.00	TH-234	2.19E+02	7.83E+01
57	ASH POND	5/21/2009	1.00	PB-212	1.42E+01	3.85E+00
57	ASH POND	5/21/2009	1.00	BI-212	2.70E+01	2.41E+01

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
57 ASH POND	5/21/2009	1.00	TL-208	5.62E+00	2.19E+00	
57 ASH POND	5/21/2009	1.00	PB-214	1.81E+01	5.29E+00	
57 ASH POND	5/21/2009	1.00	K-40	2.34E+02	3.50E+01	
57 ASH POND	5/21/2009	1.00	AC-228	1.06E+01	1.04E+01	
57 ASH POND	5/21/2009	1.00	BI-214	1.96E+01	4.64E+00	
57 ASH POND	6/22/2009	1.00	BI-212	1.85E+01	1.78E+01	
57 ASH POND	6/22/2009	1.00	TL-208	1.16E+01	2.61E+00	
57 ASH POND	6/22/2009	1.00	PB-212	3.23E+01	3.60E+00	
57 ASH POND	6/22/2009	1.00	BI-214	3.96E+01	6.29E+00	
57 ASH POND	6/22/2009	1.00	PB-214	3.68E+01	5.49E+00	
57 ASH POND	6/22/2009	1.00	RA-226	2.76E+02	5.58E+01	
57 ASH POND	6/22/2009	1.00	AC-228	2.63E+01	9.56E+00	
57 ASH POND	6/22/2009	1.00	TH-234	1.82E+02	8.69E+01	
57 ASH POND	6/22/2009	1.00	K-40	3.13E+02	4.47E+01	
57 ASH POND	7/20/2009	1.00	BI-214	1.40E+01	5.30E+00	
57 ASH POND	7/20/2009	1.00	TH-234	2.19E+02	7.90E+01	
57 ASH POND	7/20/2009	1.00	AC-228	2.18E+01	7.81E+00	
57 ASH POND	7/20/2009	1.00	PB-214	1.97E+01	5.31E+00	
57 ASH POND	7/20/2009	1.00	PB-212	1.64E+01	3.25E+00	
57 ASH POND	7/20/2009	1.00	TL-208	7.63E+00	2.67E+00	
57 ASH POND	7/20/2009	1.00	K-40	2.38E+02	4.00E+01	
57 ASH POND	7/20/2009	1.00	RA-226	2.04E+02	4.82E+01	
57 ASH POND	8/21/2009	1.00	PB-212	1.01E+01	3.29E+00	
57 ASH POND	8/21/2009	1.00	AC-228	1.05E+01	5.93E+00	
57 ASH POND	8/21/2009	1.00	K-40	4.01E+02	3.86E+01	
57 ASH POND	8/21/2009	1.00	TL-208	5.82E+00	2.00E+00	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
57	ASH POND	8/21/2009	1.00	RA-226	2.08E+02	5.67E+01
57	ASH POND	8/21/2009	1.00	TH-234	2.31E+02	6.63E+01
57	ASH POND	8/21/2009	1.00	PB-214	1.00E+01	3.56E+00
57	ASH POND	8/21/2009	1.00	BI-214	9.48E+00	3.80E+00
57	ASH POND	9/22/2009	1.00	TH-234	1.96E+02	7.11E+01
57	ASH POND	9/22/2009	1.00	AC-228	1.47E+01	5.62E+00
57	ASH POND	9/22/2009	1.00	K-40	2.84E+02	3.32E+01
57	ASH POND	9/22/2009	1.00	PB-212	1.32E+01	3.17E+00
57	ASH POND	9/22/2009	1.00	BI-214	1.78E+01	4.03E+00
57	ASH POND	9/22/2009	1.00	PB-214	2.58E+01	4.16E+00
57	ASH POND	9/22/2009	1.00	RA-226	2.37E+02	4.61E+01
57	ASH POND	9/22/2009	1.00	TL-208	5.62E+00	1.99E+00
57	ASH POND	10/19/2009	1.00	TH-234	2.08E+02	5.43E+01
57	ASH POND	10/19/2009	1.00	PB-212	8.97E+00	3.59E+00
57	ASH POND	10/19/2009	1.00	K-40	4.07E+02	3.95E+01
57	ASH POND	10/19/2009	1.00	AC-228	8.85E+00	6.00E+00
57	ASH POND	10/19/2009	1.00	RA-226	1.67E+02	4.44E+01
57	ASH POND	10/19/2009	1.00	PB-214	1.15E+01	3.63E+00
57	ASH POND	10/19/2009	1.00	BI-214	1.34E+01	3.98E+00
57	ASH POND	10/19/2009	1.00	TL-208	7.43E+00	2.22E+00
57	ASH POND	11/19/2009	1.00	TL-208	7.24E+00	2.76E+00
57	ASH POND	11/19/2009	1.00	PB-212	1.54E+01	3.19E+00
57	ASH POND	11/19/2009	1.00	BI-214	8.89E+00	4.22E+00
57	ASH POND	11/19/2009	1.00	TH-234	2.05E+02	8.71E+01
57	ASH POND	11/19/2009	1.00	PB-214	1.50E+01	4.67E+00
57	ASH POND	11/19/2009	1.00	RA-226	1.81E+02	4.46E+01

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
57	ASH POND	1.00	K-40	2.56E+02	3.77E+01	
57	ASH POND	1.00	AC-228	1.47E+01	7.47E+00	
57	ASH POND	1.00	TH-234	2.42E+02	7.21E+01	
57	ASH POND	1.00	AC-228	1.95E+01	7.92E+00	
57	ASH POND	1.00	RA-226	1.88E+02	4.54E+01	
57	ASH POND	1.00	PB-214	1.21E+01	4.70E+00	
57	ASH POND	1.00	BI-214	1.79E+01	4.72E+00	
57	ASH POND	1.00	TL-208	6.47E+00	2.57E+00	
57	ASH POND	1.00	PB-212	1.31E+01	3.67E+00	
57	ASH POND	1.00	K-40	2.00E+02	3.80E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	K-40	5.49E+02	6.75E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	TL-208	3.38E+00	2.43E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	PB-212	7.03E+00	3.91E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	BI-214	7.88E+00	4.73E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	RA-226	4.82E+01	4.66E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	PB-214	8.70E+00	4.62E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	TH-234	2.39E+02	7.92E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	RA-226	1.91E+02	5.21E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	K-40	3.79E+02	4.64E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	TL-208	6.57E+00	2.44E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	PB-212	1.25E+01	4.14E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	BI-214	1.22E+01	5.11E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	RA-226	1.10E+02	4.86E+01	
66	Black Creek between Prestwood Lake discharge an	1.00	PB-214	6.77E+00	4.33E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	PB-212	7.44E+00	3.22E+00	
66	Black Creek between Prestwood Lake discharge an	1.00	TL-208	4.55E+00	2.17E+00	

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
66	Black Creek between Prestwood Lake discharge an	3/19/2009	1.00	K-40	5.12E+02	4.95E+01
66	Black Creek between Prestwood Lake discharge an	3/19/2009	1.00	TH-234	1.24E+02	6.93E+01
66	Black Creek between Prestwood Lake discharge an	3/19/2009	1.00	BI-214	9.83E+00	3.25E+00
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	TH-234	1.97E+02	7.67E+01
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	RA-226	1.13E+02	4.50E+01
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	PB-214	4.80E+00	3.99E+00
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	BI-214	1.01E+01	3.89E+00
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	PB-212	1.12E+01	3.65E+00
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	TL-208	5.59E+00	2.48E+00
66	Black Creek between Prestwood Lake discharge an	4/20/2009	1.00	K-40	5.33E+02	4.82E+01
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	PB-214	7.80E+00	3.18E+00
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	K-40	3.88E+02	4.05E+01
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	TL-208	7.48E+00	1.88E+00
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	TH-234	2.09E+02	5.47E+01
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	BI-214	1.15E+01	4.02E+00
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	RA-226	1.60E+02	4.41E+01
66	Black Creek between Prestwood Lake discharge an	5/21/2009	1.00	PB-212	1.26E+01	3.77E+00
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	PB-212	1.43E+01	3.84E+00
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	TH-234	1.88E+02	6.64E+01
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	TL-208	4.85E+00	2.52E+00
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	BI-214	1.73E+01	4.57E+00
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	K-40	3.67E+02	4.03E+01
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	RA-226	1.81E+02	4.39E+01
66	Black Creek between Prestwood Lake discharge an	6/22/2009	1.00	PB-214	1.28E+01	3.97E+00
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	BI-214	2.66E+01	4.39E+00
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	TL-208	7.71E+00	2.27E+00



# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Surface Water

Quantity: Liters

Activity: pCi/Liter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	TH-234	2.23E+02	7.03E+01
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	RA-226	1.46E+02	4.19E+01
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	PB-214	1.85E+01	4.35E+00
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	K-40	2.46E+02	3.45E+01
66	Black Creek between Prestwood Lake discharge an	7/20/2009	1.00	PB-212	1.40E+01	2.77E+00
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	PB-212	8.75E+00	3.61E+00
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	K-40	5.35E+02	4.93E+01
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	AC-228	1.78E+01	8.15E+00
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	TL-208	6.65E+00	2.33E+00
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	RA-226	1.62E+02	4.78E+01
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	BI-214	1.19E+01	4.92E+00
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	PB-214	1.21E+01	4.59E+00
66	Black Creek between Prestwood Lake discharge an	8/21/2009	1.00	TH-234	1.10E+02	7.01E+01
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	BI-214	8.58E+00	3.44E+00
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	PB-212	1.28E+01	3.28E+00
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	TH-234	2.41E+02	6.67E+01
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	K-40	4.57E+02	4.12E+01
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	TL-208	5.16E+00	2.03E+00
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	RA-226	1.67E+02	4.71E+01
66	Black Creek between Prestwood Lake discharge an	9/22/2009	1.00	PB-214	5.68E+00	3.38E+00
66	Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	K-40	2.09E+02	3.23E+01
66	Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	TH-234	2.39E+02	7.09E+01
66	Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	RA-226	2.04E+02	4.81E+01
66	Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	PB-214	1.40E+01	4.46E+00
66	Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	BI-214	2.00E+01	5.45E+00
66	Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	TL-208	5.13E+00	2.59E+00

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Surface Water*

*Quantity: Liters*

*Activity: pCi/Liter*

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
66 Black Creek between Prestwood Lake discharge an	10/19/2009	1.00	PB-212	1.52E+01	3.54E+00	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	TL-208	5.55E+00	2.27E+00	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	PB-212	1.40E+01	3.42E+00	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	BI-214	1.04E+01	3.71E+00	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	PB-214	1.08E+01	4.04E+00	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	RA-226	1.86E+02	4.40E+01	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	TH-234	2.23E+02	5.63E+01	
66 Black Creek between Prestwood Lake discharge an	11/19/2009	1.00	K-40	4.09E+02	4.00E+01	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	TH-234	2.05E+02	6.56E+01	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	RA-226	1.62E+02	4.47E+01	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	PB-214	9.57E+00	3.94E+00	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	BI-214	1.39E+01	4.10E+00	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	PB-212	1.17E+01	3.21E+00	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	TL-208	6.20E+00	2.31E+00	
66 Black Creek between Prestwood Lake discharge an	12/21/2009	1.00	K-40	3.80E+02	3.90E+01	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Aquatic Vegetation

Quantity: Grams (wet)

Activity: pCi/gram wet

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/18/2009	524.6	TL-208	4.72E-02	2.74E-02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/18/2009	524.6	PB-212	4.58E-02	3.64E-02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/18/2009	524.6	BI-214	8.59E-02	4.31E-02
41	8.0 MI N - BLACK CREEK AT US 1 - CONTROL	5/18/2009	524.6	K-40	3.60E+00	5.23E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	TL-208	5.12E-02	2.29E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	TH-234	4.74E-01	4.57E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	AC-228	4.03E-01	8.72E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	RA-226	1.17E+00	3.87E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	PB-214	3.70E-01	5.24E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	BI-214	3.86E-01	6.37E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	BI-212	3.46E-01	1.23E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	CS-137	1.50E-02	1.19E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	CO-58	2.91E-02	1.92E-02
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	K-40	3.06E+00	3.93E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	BE-7	2.13E+00	2.83E-01
45	SITE VARIES WITHIN LAKE ROBINSON	5/21/2009	490.8	PB-212	2.09E-01	2.74E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	RA-226	7.11E-01	4.47E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	BE-7	1.44E+00	2.23E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	AC-228	4.12E-01	8.82E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	TL-208	6.58E-02	2.22E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	PB-214	1.75E-01	4.23E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	BI-214	1.92E-01	4.79E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	PB-212	1.58E-01	3.96E-02
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	K-40	2.40E+00	3.82E-01
46	SITE VARIES WITHIN PRESTWOOD LAKE	5/19/2009	627.3	BI-212	2.30E-01	1.31E-01
66	Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	RA-226	6.85E-01	4.08E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

*Media Type: Aquatic Vegetation*

*Quantity: Grams.(wet)*

*Activity: pCi/gram wet*

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	K-40	1.54E+00	3.15E-01	
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	TL-208	7.31E-02	2.25E-02	
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	PB-212	1.53E-01	3.33E-02	
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	BI-214	1.34E-01	3.75E-02	
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	PB-214	1.15E-01	4.02E-02	
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	AC-228	3.06E-01	8.23E-02	
66 Black Creek between Prestwood Lake discharge an	5/21/2009	445.1	BE-7	8.68E-01	1.92E-01	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	BE-7	2.93E-01	1.25E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	BI-214	8.08E-02	3.23E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	CS-137	1.77E-02	1.18E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	K-40	3.50E+00	3.84E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	PB-212	3.89E-02	1.42E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	PB-214	6.73E-02	2.44E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	RA-226	3.57E-01	2.45E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	469.6	TH-234	3.67E-01	3.54E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	500.3	BE-7	5.20E-01	2.04E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	500.3	K-40	4.74E+00	5.96E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	506.2	AC-228	1.39E-01	5.26E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	506.2	BE-7	3.72E-01	1.28E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	506.2	BI-214	1.40E-01	3.21E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	506.2	CS-137	1.98E-02	1.27E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	506.2	K-40	3.69E+00	3.99E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	506.2	PB-214	1.10E-01	3.35E-02

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	AC-228	8.94E-02	5.86E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	BE-7	5.85E-01	1.54E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	BI-214	9.96E-02	3.51E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	K-40	3.95E+00	4.41E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	PB-212	5.40E-02	2.41E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	PB-214	8.10E-02	2.66E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	416	RA-226	6.38E-01	3.48E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	485.2	BE-7	7.55E-01	2.11E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	485.2	BI-214	9.59E-02	4.73E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	485.2	K-40	4.25E+00	5.82E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	485.2	PB-212	3.69E-02	3.23E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	AC-228	1.58E-01	5.37E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	BE-7	5.18E-01	1.63E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	BI-212	1.51E-01	1.03E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	BI-214	1.26E-01	4.34E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	K-40	3.85E+00	4.19E-01

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	PB-212	3.30E-02	2.33E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	425.8	PB-214	1.07E-01	3.96E-02
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	BE-7	3.09E-01	1.18E-01
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	BI-214	6.42E-02	2.77E-02
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	K-40	4.52E+00	4.37E-01
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	PB-212	3.95E-02	1.93E-02
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	PB-214	7.51E-02	2.41E-02
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	RA-226	5.21E-01	3.51E-01
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	TH-234	4.27E-01	3.65E-01
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	470	TL-208	1.91E-02	1.21E-02
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	481	K-40	5.26E+00	7.04E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	BE-7	3.38E-01	1.72E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	BI-214	1.16E-01	3.45E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	K-40	2.94E+00	3.91E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	PB-212	7.13E-02	2.20E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	PB-214	8.86E-02	4.26E-02

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	RA-226	4.21E-01	2.93E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	TH-234	5.33E-01	4.99E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	375.8	TL-208	1.66E-02	1.62E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	AC-228	1.14E-01	3.63E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	BE-7	4.20E-01	1.24E-01
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	BI-214	9.16E-02	2.85E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	K-40	4.34E+00	4.17E-01
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	PB-212	3.67E-02	2.01E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	PB-214	8.99E-02	3.14E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	RA-226	3.87E-01	2.61E-01
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	TH-234	5.01E-01	4.33E-01
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	475.3	TL-208	2.58E-02	1.92E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	AC-228	7.68E-02	4.80E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	BE-7	4.92E-01	1.40E-01
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	BI-214	1.36E-01	3.00E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	K-40	2.86E+00	3.61E-01



# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	PB-212	6.14E-02	2.70E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	PB-214	3.92E-02	3.21E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	RA-226	6.47E-01	3.26E-01
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	TH-234	3.94E-01	3.66E-01
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	431.5	TL-208	1.93E-02	1.29E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	AC-228	1.97E-01	6.41E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	BE-7	1.81E-01	1.48E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	BI-214	1.59E-01	4.06E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	K-40	5.65E+00	5.28E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	PB-212	8.04E-02	2.67E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	PB-214	1.68E-01	3.61E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	RA-226	1.12E+00	4.19E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	423.1	TL-208	2.21E-02	1.80E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	457.1	BE-7	2.61E-01	1.54E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	457.1	BI-214	8.82E-02	2.75E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	457.1	CS-137	2.39E-02	1.46E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation  
 Quantity: GRAMS (wet)  
 Concentration (Activity): pCi/gm wet

Media: CHERRY

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	457.1	K-40	4.43E+00	4.65E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	457.1	PB-214	5.46E-02	2.76E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	457.1	RA-226	6.16E-01	3.75E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	BE-7	3.92E-01	1.34E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	BI-214	7.59E-02	2.61E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	CS-137	8.08E-02	2.17E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	K-40	4.46E+00	4.30E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	PB-212	2.69E-02	1.83E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	PB-214	5.99E-02	3.26E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	479.9	RA-226	3.63E-01	2.98E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	AC-228	1.72E-01	5.32E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	BE-7	9.82E-01	1.60E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	BI-214	9.28E-02	2.44E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	K-40	4.29E+00	4.30E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	PB-212	4.91E-02	2.31E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	PB-214	4.71E-02	2.62E-02

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	RA-226	7.67E-01	3.73E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	458	TL-208	1.82E-02	1.30E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	BE-7	2.01E+00	3.19E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	BI-214	1.41E-01	4.53E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	CS-137	3.80E-02	2.70E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	K-40	3.55E+00	5.14E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	PB-214	1.16E-01	4.84E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	RA-226	9.24E-01	4.13E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	TH-234	9.52E-01	6.49E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	381	TL-208	2.46E-02	1.99E-02
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	463.8	BE-7	8.66E-01	2.99E-01
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	463.8	K-40	4.36E+00	6.34E-01
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	463.8	PB-212	2.20E-02	2.67E-02
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	463.8	RA-226	7.67E-01	5.90E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	BE-7	1.86E+00	3.23E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	BI-214	6.61E-02	3.93E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	K-40	4.31E+00	6.01E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	PB-212	8.07E-02	3.18E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	PB-214	9.44E-02	4.43E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	RA-226	5.46E-01	4.59E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/13/2009	386.1	TL-208	3.32E-02	2.24E-02
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	549.8	AC-228	9.21E-02	8.52E-02
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	549.8	BE-7	6.76E-01	1.88E-01
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	549.8	BI-214	7.78E-02	3.88E-02
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	549.8	CS-137	4.15E-02	2.05E-02
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	549.8	K-40	4.85E+00	5.56E-01
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	549.8	RA-226	4.03E-01	3.27E-01
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	AC-228	7.62E-02	4.64E-02
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	BE-7	2.67E-01	1.04E-01
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	BI-214	6.72E-02	2.42E-02
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	K-40	3.01E+00	3.21E-01
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	PB-212	1.77E-02	1.70E-02

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	PB-214	3.66E-02	2.13E-02	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	RA-226	7.19E-01	2.90E-01	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	TH-234	4.55E-01	3.39E-01	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	495.3	TL-208	1.70E-02	1.13E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	AC-228	1.17E-01	4.98E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	BE-7	5.86E-01	1.40E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	BI-214	5.45E-02	2.92E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	CS-137	2.10E-02	1.10E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	K-40	2.65E+00	3.14E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	PB-212	5.32E-02	2.14E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	PB-214	5.03E-02	2.82E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	RA-226	6.36E-01	2.76E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	TH-234	5.38E-01	3.74E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	468.7	TL-208	1.96E-02	1.46E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	AC-228	1.62E-01	4.28E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	BE-7	1.15E+00	1.56E-01	

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	BI-214	6.71E-02	2.34E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	K-40	2.81E+00	3.03E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	PB-212	3.56E-02	1.60E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	PB-214	4.17E-02	2.37E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	RA-226	7.08E-01	2.88E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	TH-234	5.92E-01	3.47E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	544.7	TL-208	1.75E-02	1.13E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	AC-228	1.60E-01	4.04E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	BE-7	9.69E-01	1.72E-01	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	BI-214	6.59E-02	2.40E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	K-40	1.92E+00	2.78E-01	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	PB-212	4.33E-02	1.88E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	PB-214	5.25E-02	2.84E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	487.4	RA-226	5.38E-01	3.13E-01	
62 SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	AC-228	1.24E-01	5.36E-02	
62 SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	BE-7	8.21E-01	2.02E-01	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	BI-214	1.27E-01	4.95E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	K-40	4.50E+00	4.99E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	PB-212	7.33E-02	3.02E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	PB-214	5.49E-02	3.74E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	RA-226	7.13E-01	4.27E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	364.2	TL-208	4.58E-02	1.74E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	469.1	BE-7	2.38E-01	1.12E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	469.1	K-40	3.87E+00	4.17E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	469.1	PB-212	3.82E-02	2.18E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	469.1	RA-226	5.22E-01	3.02E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	469.1	TH-234	4.76E-01	3.85E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	469.1	TL-208	2.42E-02	1.29E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	498.9	BE-7	4.49E-01	1.62E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	498.9	BI-214	4.12E-02	2.99E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	498.9	K-40	2.96E+00	4.34E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	498.9	PB-212	4.25E-02	1.88E-02

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
67	S CLOSE TO SITE BOUNDARY	6/10/2009	498.9	RA-226	5.47E-01	3.03E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	498.9	TL-208	2.68E-02	1.49E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	AC-228	7.19E-02	3.61E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	BE-7	5.66E-01	1.31E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	BI-214	4.74E-02	3.67E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	CS-137	2.32E-02	1.14E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	K-40	2.73E+00	3.42E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	PB-212	4.04E-02	1.67E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	PB-214	2.97E-02	2.30E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	RA-226	4.82E-01	1.80E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	TH-234	3.66E-01	3.50E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	527.1	TL-208	2.12E-02	7.84E-03
67	S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	AC-228	9.84E-02	4.11E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	BE-7	8.44E-01	1.71E-01
67	S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	BI-214	6.99E-02	2.63E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	K-40	3.03E+00	3.36E-01



# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation  
 Quantity: GRAMS (wet)  
 Concentration (Activity): pCi/gm wet  
 Media: CHERRY

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
67 S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	PB-212	3.72E-02	1.68E-02	
67 S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	PB-214	4.35E-02	2.40E-02	
67 S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	RA-226	6.90E-01	3.02E-01	
67 S CLOSE TO SITE BOUNDARY	8/19/2009	477.7	TH-234	6.97E-01	3.91E-01	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	BE-7	7.21E-01	1.29E-01	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	BI-214	7.95E-02	2.74E-02	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	CS-137	2.28E-02	1.05E-02	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	K-40	2.47E+00	2.94E-01	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	PB-212	3.31E-02	2.11E-02	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	PB-214	4.72E-02	3.25E-02	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	RA-226	6.70E-01	3.48E-01	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	TH-234	5.17E-01	3.61E-01	
67 S CLOSE TO SITE BOUNDARY	9/18/2009	471.7	TL-208	1.38E-02	1.12E-02	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	AC-228	1.30E-01	4.46E-02	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	BE-7	7.79E-01	1.51E-01	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	BI-214	1.04E-01	3.80E-02	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: CHERRY

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	K-40	3.27E+00	3.91E-01	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	PB-212	7.95E-02	2.83E-02	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	PB-214	9.15E-02	3.71E-02	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	RA-226	6.71E-01	2.36E-01	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	TH-234	4.98E-01	4.80E-01	
67 S CLOSE TO SITE BOUNDARY	10/13/2009	434.5	TL-208	2.97E-02	1.52E-02	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	448.8	BE-7	5.16E-01	1.43E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	448.8	BI-214	5.77E-02	2.39E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	448.8	CS-137	4.77E-02	1.72E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	448.8	K-40	3.41E+00	3.98E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	448.8	PB-212	3.51E-02	2.90E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	448.8	PB-214	7.80E-02	3.10E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	484.2	BE-7	7.92E-01	1.73E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	484.2	BI-214	1.09E-01	2.89E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	484.2	CS-137	8.05E-02	1.80E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	484.2	K-40	3.40E+00	3.94E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	484.2	PB-214	4.42E-02	3.26E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	484.2	RA-226	3.48E-01	3.17E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	BE-7	6.55E-01	1.52E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	BI-214	9.25E-02	3.80E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	CS-137	3.11E-02	1.53E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	K-40	2.84E+00	3.55E-01

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	PB-212	4.76E-02	2.20E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	PB-214	7.79E-02	3.01E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	RA-226	3.53E-01	2.81E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	445.8	TH-234	5.45E-01	3.99E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	BE-7	8.93E-01	1.90E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	BI-214	2.15E-01	4.60E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	CS-137	4.34E-02	2.01E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	K-40	2.27E+00	3.31E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	PB-212	4.83E-02	2.35E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	PB-214	1.40E-01	3.67E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	RA-226	6.65E-01	3.11E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	425.2	TL-208	1.91E-02	1.37E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	412.7	BE-7	1.63E+00	3.29E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	412.7	BI-214	7.90E-02	5.46E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	412.7	CS-137	5.51E-02	3.12E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	412.7	K-40	3.98E+00	5.72E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	BE-7	9.98E-01	1.74E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	BI-214	1.96E-01	3.57E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	CS-137	2.56E-02	1.73E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	K-40	2.32E+00	3.12E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	PB-212	5.13E-02	2.89E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	PB-214	1.56E-01	3.34E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	RA-226	5.25E-01	2.57E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	TH-234	5.18E-01	4.91E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	446.1	TL-208	2.88E-02	1.50E-02
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	603.7	BE-7	4.69E-01	1.79E-01
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	603.7	K-40	4.34E+00	5.47E-01
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	603.7	RA-226	3.65E-01	3.33E-01
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	438.7	BE-7	5.10E-01	1.65E-01
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	438.7	BI-214	6.90E-02	4.67E-02
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	438.7	K-40	3.44E+00	5.64E-01
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	438.7	PB-212	3.67E-02	2.84E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	438.7	RA-226	5.29E-01	4.15E-01
51	SSW - CLOSE TO SITE BOUNDARY	6/10/2009	438.7	TL-208	1.86E-02	1.62E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	BE-7	4.37E-01	1.34E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	BI-214	1.23E-01	3.08E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	CS-137	1.93E-02	1.84E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	K-40	3.16E+00	3.54E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	PB-212	4.42E-02	2.27E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	PB-214	1.14E-01	3.48E-02
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	RA-226	4.47E-01	2.58E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	TH-234	6.55E-01	3.61E-01
51	SSW - CLOSE TO SITE BOUNDARY	7/13/2009	482.4	TL-208	2.28E-02	1.23E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	AC-228	1.34E-01	5.73E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	BE-7	1.03E+00	1.66E-01
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	BI-214	6.13E-02	2.90E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	CS-137	7.48E-02	1.72E-02
51	SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	K-40	2.54E+00	3.42E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	PB-212	4.17E-02	2.24E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	PB-214	5.52E-02	2.02E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	491.3	TL-208	2.58E-02	1.74E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	AC-228	1.34E-01	4.17E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	BE-7	1.16E+00	1.96E-01	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	BI-214	9.27E-02	2.84E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	CS-137	1.28E-01	2.05E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	K-40	2.37E+00	2.93E-01	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	PB-212	4.17E-02	1.97E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	PB-214	8.81E-02	2.79E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	RA-226	4.12E-01	2.40E-01	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	TH-234	7.88E-01	5.12E-01	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	481.3	TL-208	1.67E-02	1.36E-02	
51 SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	AC-228	1.77E-01	5.82E-02	
51 SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	BE-7	6.88E-01	2.02E-01	
51 SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	BI-214	1.28E-01	3.96E-02	

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	CS-137	4.73E-02	1.64E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	K-40	3.33E+00	4.02E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	PB-212	7.21E-02	4.07E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	PB-214	9.30E-02	2.89E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	RA-226	3.37E-01	3.26E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	414.3	TL-208	1.90E-02	1.57E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	393.9	BE-7	4.30E-01	1.92E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	393.9	BI-214	6.41E-02	5.02E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	393.9	CS-137	9.39E-02	2.74E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	393.9	K-40	4.47E+00	6.17E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	393.9	PB-212	4.13E-02	3.74E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	BE-7	7.27E-01	1.72E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	BI-214	4.40E-02	3.18E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	CS-137	2.34E-02	1.90E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	K-40	3.76E+00	3.99E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	PB-214	4.52E-02	2.96E-02



# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	RA-226	5.80E-01	3.38E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	402.4	TL-208	2.45E-02	1.17E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	466.2	BE-7	6.94E-01	1.58E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	466.2	CS-137	2.02E-02	1.38E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	466.2	K-40	3.70E+00	4.06E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	466.2	PB-212	2.35E-02	2.10E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	466.2	RA-226	3.57E-01	2.90E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	417.1	BE-7	2.17E+00	2.54E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	417.1	BI-214	1.01E-01	3.35E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	417.1	CS-137	3.08E-02	1.75E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	417.1	K-40	3.05E+00	3.90E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	417.1	RA-226	5.55E-01	3.30E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	417.1	TH-234	5.43E-01	3.69E-01
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	478.5	AC-228	7.40E-02	5.86E-02
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	478.5	BE-7	8.16E-01	1.43E-01
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	478.5	BI-214	6.55E-02	2.89E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
52	10 MI W - NEAR BETHUNE - CONTROL	478.5	CS-137	7.13E-02	1.93E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	478.5	K-40	3.13E+00	3.34E-01	
52	10 MI W - NEAR BETHUNE - CONTROL	478.5	PB-212	4.97E-02	2.25E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	478.5	PB-214	3.43E-02	2.21E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	478.5	RA-226	5.22E-01	2.92E-01	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	BE-7	2.48E+00	2.48E-01	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	BI-214	1.06E-01	3.29E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	CS-137	2.09E-02	1.12E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	K-40	2.69E+00	3.18E-01	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	PB-212	4.24E-02	2.54E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	PB-214	8.97E-02	3.03E-02	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	RA-226	4.30E-01	3.02E-01	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	TH-234	6.22E-01	4.98E-01	
52	10 MI W - NEAR BETHUNE - CONTROL	451.8	TL-208	1.99E-02	1.88E-02	
62	SE CLOSE TO SITE BOUNDARY	499.7	AC-228	8.71E-02	4.68E-02	
62	SE CLOSE TO SITE BOUNDARY	499.7	BE-7	1.01E+00	1.55E-01	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
62 SE CLOSE TO SITE BOUNDARY	5/14/2009	499.7	BI-214	5.05E-02	3.11E-02	
62 SE CLOSE TO SITE BOUNDARY	5/14/2009	499.7	K-40	2.54E+00	3.32E-01	
62 SE CLOSE TO SITE BOUNDARY	5/14/2009	499.7	PB-212	4.00E-02	2.00E-02	
62 SE CLOSE TO SITE BOUNDARY	5/14/2009	499.7	RA-226	5.50E-01	2.53E-01	
62 SE CLOSE TO SITE BOUNDARY	5/14/2009	499.7	TH-234	4.81E-01	3.67E-01	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	453.5	BE-7	1.30E+00	2.48E-01	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	453.5	BI-214	8.18E-02	3.62E-02	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	453.5	K-40	2.73E+00	4.23E-01	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	453.5	PB-212	5.11E-02	3.60E-02	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	453.5	RA-226	5.06E-01	3.87E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	AC-228	8.09E-02	6.42E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	BE-7	9.64E-01	1.81E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	BI-214	7.03E-02	2.78E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	K-40	1.78E+00	3.17E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	PB-212	5.31E-02	2.15E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	PB-214	7.36E-02	2.94E-02	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	RA-226	6.45E-01	2.61E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	579.7	TL-208	1.78E-02	1.58E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	AC-228	1.31E-01	4.74E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	BE-7	9.09E-01	2.13E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	BI-214	6.58E-02	2.99E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	CS-137	1.47E-01	2.48E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	K-40	1.73E+00	2.67E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	PB-212	3.04E-02	2.44E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	RA-226	6.63E-01	3.59E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	377.8	TL-208	1.83E-02	1.37E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	402.2	AC-228	1.19E-01	4.68E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	402.2	BE-7	2.11E+00	2.34E-01	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	402.2	BI-214	1.80E-01	3.54E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	402.2	K-40	2.88E+00	3.74E-01	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	402.2	PB-212	4.22E-02	3.12E-02	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	402.2	PB-214	8.99E-02	3.62E-02	

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	BE-7	1.60E+00	2.80E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	BI-214	4.79E-02	3.98E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	CS-137	2.41E-02	1.97E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	K-40	2.51E+00	4.42E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	PB-212	6.92E-02	3.49E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	RA-226	8.72E-01	5.00E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	370.6	TH-234	8.62E-01	6.58E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	BE-7	4.18E-01	1.30E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	BI-214	4.64E-02	2.70E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	CS-137	1.79E-02	1.13E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	K-40	2.92E+00	3.36E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	PB-212	3.34E-02	1.90E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	RA-226	4.97E-01	1.91E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	500	TL-208	1.31E-02	8.58E-03
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	AC-228	8.79E-02	4.91E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	BE-7	6.99E-01	1.50E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	BI-214	6.76E-02	2.98E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	CS-137	1.04E-01	1.92E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	K-40	3.47E+00	3.65E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	PB-212	2.74E-02	2.56E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	467.4	RA-226	6.77E-01	3.11E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	BE-7	1.51E+00	1.83E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	BI-214	4.75E-02	2.22E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	CS-137	3.14E-02	1.29E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	K-40	2.88E+00	3.23E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	PB-212	6.30E-02	3.12E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	PB-214	3.29E-02	2.18E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	RA-226	5.06E-01	2.89E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	467.2	TL-208	2.68E-02	1.22E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	AC-228	1.35E-01	6.05E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	BE-7	2.44E+00	2.79E-01
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	BI-214	5.76E-02	2.86E-02

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: SASSAFRAS

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	CS-137	3.25E-02	2.10E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	K-40	2.82E+00	3.77E-01
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	PB-212	1.95E-02	1.73E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	473.6	RA-226	3.96E-01	3.29E-01
67	S CLOSE TO SITE BOUNDARY	9/18/2009	468.2	BE-7	1.40E+00	2.43E-01
67	S CLOSE TO SITE BOUNDARY	9/18/2009	468.2	K-40	3.25E+00	5.08E-01
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	AC-228	7.04E-02	5.41E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	BE-7	1.29E+00	2.08E-01
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	BI-214	7.58E-02	3.47E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	CS-137	3.08E-02	1.40E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	K-40	2.64E+00	3.56E-01
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	PB-212	6.79E-02	2.82E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	PB-214	7.61E-02	3.28E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	401.7	TL-208	1.88E-02	1.54E-02

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

**Media:** WAX MYRTLE

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	491.6	BE-7	8.27E-01	2.06E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	491.6	BI-214	5.69E-02	3.31E-02
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	491.6	K-40	2.80E+00	4.18E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	491.6	RA-226	6.19E-01	3.45E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	491.6	TH-234	7.74E-01	4.98E-01
50	SSE - CLOSE TO SITE BOUNDARY	5/14/2009	491.6	TL-208	2.56E-02	1.65E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	AC-228	1.40E-01	4.80E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	BE-7	1.26E+00	1.76E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	BI-214	8.50E-02	2.65E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	K-40	2.43E+00	3.12E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	PB-212	3.74E-02	1.60E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	PB-214	5.25E-02	4.08E-02
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	RA-226	6.28E-01	2.92E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	TH-234	1.06E+00	5.56E-01
50	SSE - CLOSE TO SITE BOUNDARY	6/10/2009	464	TL-208	2.38E-02	1.53E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	AC-228	2.11E-01	6.77E-02



# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	BE-7	9.79E-01	1.91E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	BI-214	1.57E-01	4.62E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	K-40	2.81E+00	4.19E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	PB-212	6.06E-02	2.79E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	PB-214	1.30E-01	4.05E-02
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	RA-226	6.31E-01	3.32E-01
50	SSE - CLOSE TO SITE BOUNDARY	7/13/2009	502.5	TL-208	2.77E-02	1.96E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	AC-228	1.61E-01	5.76E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	BE-7	6.84E-01	2.25E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	BI-214	1.14E-01	3.70E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	CS-137	3.03E-02	1.67E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	K-40	2.59E+00	4.04E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	PB-212	4.48E-02	2.50E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	PB-214	8.06E-02	4.70E-02
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	RA-226	4.94E-01	3.78E-01
50	SSE - CLOSE TO SITE BOUNDARY	8/19/2009	474	TH-234	8.33E-01	6.11E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	AC-228	1.77E-01	5.79E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	BE-7	6.44E-01	1.84E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	BI-214	7.35E-02	2.81E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	K-40	2.18E+00	3.39E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	PB-212	4.55E-02	2.33E-02
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	RA-226	6.40E-01	2.75E-01
50	SSE - CLOSE TO SITE BOUNDARY	9/18/2009	597.4	TL-208	3.36E-02	1.67E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	AC-228	1.92E-01	9.77E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	BE-7	1.62E+00	2.83E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	BI-214	1.38E-01	4.42E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	K-40	2.52E+00	4.38E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	PB-212	8.24E-02	3.40E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	PB-214	1.31E-01	5.42E-02
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	RA-226	4.18E-01	3.69E-01
50	SSE - CLOSE TO SITE BOUNDARY	10/13/2009	439.3	TL-208	5.18E-02	3.08E-02
51	SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	AC-228	8.76E-02	3.75E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	BE-7	8.09E-01	1.45E-01	
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	BI-214	6.74E-02	2.25E-02	
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	K-40	1.44E+00	2.21E-01	
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	PB-212	1.59E-02	1.48E-02	
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	PB-214	4.56E-02	2.31E-02	
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	RA-226	4.99E-01	2.87E-01	
51 SSW - CLOSE TO SITE BOUNDARY	5/14/2009	499.8	TH-234	5.24E-01	3.08E-01	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	AC-228	1.64E-01	4.67E-02	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	BE-7	1.10E+00	1.62E-01	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	BI-214	6.95E-02	2.16E-02	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	K-40	3.26E+00	3.44E-01	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	PB-212	3.37E-02	2.46E-02	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	PB-214	6.62E-02	2.47E-02	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	RA-226	4.72E-01	2.87E-01	
51 SSW - CLOSE TO SITE BOUNDARY	6/10/2009	538.9	TL-208	1.84E-02	1.37E-02	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	AC-228	1.94E-01	6.83E-02	

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i><b>Sample Point</b></i>	<i><b>Sample Date</b></i>	<i><b>Quantity</b></i>	<i><b>Isotope</b></i>	<i><b>Activity</b></i>	<i><b>2 Sigma Error</b></i>	<i><b>LLD</b></i>
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	BE-7	9.23E-01	1.93E-01	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	BI-214	1.05E-01	4.18E-02	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	K-40	2.97E+00	4.33E-01	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	PB-212	8.09E-02	3.52E-02	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	RA-226	5.03E-01	4.34E-01	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	TH-234	8.53E-01	6.64E-01	
51 SSW - CLOSE TO SITE BOUNDARY	7/13/2009	497.6	TL-208	3.79E-02	1.65E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	AC-228	1.67E-01	5.79E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	BE-7	1.26E+00	1.79E-01	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	BI-214	5.36E-02	2.84E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	CS-137	1.75E-02	1.22E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	K-40	2.12E+00	2.77E-01	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	PB-214	9.46E-02	3.13E-02	
51 SSW - CLOSE TO SITE BOUNDARY	8/19/2009	477	RA-226	4.28E-01	2.68E-01	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	AC-228	1.88E-01	5.30E-02	
51 SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	BE-7	1.22E+00	1.75E-01	

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	BI-214	9.38E-02	2.54E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	K-40	2.64E+00	3.05E-01
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	PB-212	6.24E-02	1.95E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	PB-214	6.54E-02	3.32E-02
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	RA-226	3.91E-01	2.66E-01
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	TH-234	3.77E-01	3.64E-01
51	SSW - CLOSE TO SITE BOUNDARY	9/16/2009	479.2	TL-208	3.38E-02	1.52E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	AC-228	2.19E-01	5.89E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	BE-7	1.04E+00	1.63E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	BI-214	1.51E-01	3.29E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	K-40	2.78E+00	3.42E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	PB-212	7.28E-02	1.91E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	PB-214	1.22E-01	3.49E-02
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	RA-226	4.16E-01	2.98E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	TH-234	8.04E-01	6.04E-01
51	SSW - CLOSE TO SITE BOUNDARY	10/13/2009	467.3	TL-208	2.05E-02	1.61E-02

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	546.4	BE-7	8.67E-01	1.43E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	546.4	BI-214	4.19E-02	2.52E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	546.4	K-40	2.89E+00	3.20E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	546.4	PB-212	3.05E-02	1.81E-02
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	546.4	RA-226	3.22E-01	2.09E-01
52	10 MI W - NEAR BETHUNE - CONTROL	5/14/2009	546.4	TL-208	1.49E-02	1.24E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	AC-228	1.03E-01	6.32E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	BE-7	6.01E-01	1.74E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	BI-214	1.03E-01	4.36E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	CS-137	1.90E-02	1.16E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	K-40	2.44E+00	3.86E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	PB-212	3.45E-02	2.40E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	PB-214	5.08E-02	3.12E-02
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	RA-226	6.21E-01	3.20E-01
52	10 MI W - NEAR BETHUNE - CONTROL	6/10/2009	474.5	TL-208	2.20E-02	1.34E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	530.7	BE-7	7.55E-01	1.40E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	530.7	BI-214	7.85E-02	2.50E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	530.7	K-40	2.82E+00	3.16E-01
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	530.7	PB-212	1.92E-02	1.77E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	530.7	PB-214	6.20E-02	2.51E-02
52	10 MI W - NEAR BETHUNE - CONTROL	7/13/2009	530.7	RA-226	6.40E-01	3.10E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	AC-228	9.22E-02	4.47E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	BE-7	1.10E+00	1.64E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	BI-214	9.72E-02	3.13E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	K-40	2.43E+00	2.89E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	PB-212	3.31E-02	1.79E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	PB-214	6.83E-02	2.10E-02
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	RA-226	4.76E-01	2.23E-01
52	10 MI W - NEAR BETHUNE - CONTROL	8/19/2009	475.3	TH-234	6.04E-01	4.09E-01
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	367.4	BE-7	1.49E+00	3.42E-01
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	367.4	BI-214	6.56E-02	4.57E-02
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	367.4	K-40	4.75E+00	6.70E-01

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	367.4	PB-212	5.64E-02	4.99E-02
52	10 MI W - NEAR BETHUNE - CONTROL	9/16/2009	367.4	TL-208	6.25E-02	2.59E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	AC-228	9.89E-02	6.49E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	BE-7	5.94E-01	1.53E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	BI-214	1.36E-01	3.36E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	K-40	1.56E+00	2.52E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	PB-212	5.59E-02	2.27E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	PB-214	8.35E-02	3.06E-02
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	RA-226	6.90E-01	3.24E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	TH-234	6.90E-01	3.72E-01
52	10 MI W - NEAR BETHUNE - CONTROL	10/14/2009	466.5	TL-208	2.11E-02	1.32E-02
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	397.9	BE-7	1.03E+00	2.03E-01
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	397.9	K-40	2.96E+00	3.67E-01
62	SE CLOSE TO SITE BOUNDARY	5/14/2009	397.9	PB-212	3.42E-02	2.63E-02
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	472.8	AC-228	1.47E-01	9.52E-02
62	SE CLOSE TO SITE BOUNDARY	6/10/2009	472.8	BE-7	1.04E+00	2.77E-01



# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	472.8	BI-214	6.69E-02	4.85E-02	
62 SE CLOSE TO SITE BOUNDARY	6/10/2009	472.8	K-40	4.96E+00	5.83E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	479.3	BE-7	1.17E+00	1.56E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	479.3	K-40	2.87E+00	3.32E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	479.3	PB-212	4.82E-02	2.32E-02	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	479.3	RA-226	5.52E-01	3.27E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	479.3	TH-234	4.33E-01	3.10E-01	
62 SE CLOSE TO SITE BOUNDARY	7/13/2009	479.3	TL-208	2.02E-02	1.34E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	371.8	BE-7	1.62E+00	3.17E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	371.8	BI-214	1.32E-01	5.56E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	371.8	K-40	2.32E+00	4.49E-01	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	371.8	PB-212	9.10E-02	4.50E-02	
62 SE CLOSE TO SITE BOUNDARY	8/19/2009	371.8	TH-234	1.17E+00	8.37E-01	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	421.6	BE-7	1.65E+00	2.72E-01	
62 SE CLOSE TO SITE BOUNDARY	9/18/2009	421.6	K-40	3.17E+00	5.26E-01	
62 SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	AC-228	1.63E-01	6.38E-02	

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	BE-7	8.85E-01	1.65E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	BI-214	8.74E-02	3.72E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	K-40	4.77E+00	4.83E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	PB-212	4.46E-02	2.34E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	PB-214	5.46E-02	2.53E-02
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	RA-226	6.79E-01	2.96E-01
62	SE CLOSE TO SITE BOUNDARY	10/13/2009	434.4	TL-208	2.41E-02	1.40E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	AC-228	8.30E-02	4.78E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	BE-7	1.22E+00	1.87E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	BI-214	9.86E-02	2.78E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	K-40	2.70E+00	3.13E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	PB-212	5.75E-02	1.68E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	PB-214	3.34E-02	2.33E-02
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	RA-226	3.25E-01	2.67E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	TH-234	5.70E-01	4.14E-01
67	S CLOSE TO SITE BOUNDARY	5/14/2009	486.8	TL-208	2.19E-02	1.17E-02

# *RNP Radiological Environmental Monitoring Gamma Isotopic Report*

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	BE-7	1.12E+00	1.85E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	BI-214	5.32E-02	2.79E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	K-40	3.19E+00	3.38E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	PB-212	4.67E-02	2.15E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	PB-214	4.29E-02	3.18E-02
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	RA-226	4.50E-01	2.60E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	TH-234	9.36E-01	3.28E-01
67	S CLOSE TO SITE BOUNDARY	6/10/2009	477.6	TL-208	1.67E-02	1.55E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	484.3	AC-228	9.86E-02	5.19E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	484.3	BE-7	1.45E+00	1.95E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	484.3	BI-214	7.25E-02	2.70E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	484.3	K-40	2.64E+00	3.13E-01
67	S CLOSE TO SITE BOUNDARY	7/13/2009	484.3	PB-214	3.95E-02	2.26E-02
67	S CLOSE TO SITE BOUNDARY	7/13/2009	484.3	RA-226	4.85E-01	3.43E-01
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	AC-228	2.05E-01	7.81E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	BE-7	1.97E+00	3.47E-01

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: WAX MYRTLE

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error	LLD
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	BI-214	1.06E-01	4.18E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	K-40	1.94E+00	4.09E-01
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	PB-212	5.58E-02	2.83E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	PB-214	9.22E-02	4.03E-02
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	RA-226	5.24E-01	3.97E-01
67	S CLOSE TO SITE BOUNDARY	8/19/2009	436.9	TL-208	3.21E-02	1.83E-02
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	AC-228	1.50E-01	4.47E-02
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	BE-7	1.27E+00	1.69E-01
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	BI-214	5.69E-02	3.34E-02
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	K-40	1.99E+00	2.85E-01
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	PB-212	2.78E-02	2.32E-02
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	PB-214	4.51E-02	2.53E-02
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	RA-226	5.16E-01	3.37E-01
67	S CLOSE TO SITE BOUNDARY	9/18/2009	525.3	TL-208	1.92E-02	1.26E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	424.9	AC-228	1.93E-01	6.17E-02
67	S CLOSE TO SITE BOUNDARY	10/13/2009	424.9	BE-7	1.68E+00	2.10E-01

# ***RNP Radiological Environmental Monitoring Gamma Isotopic Report***

*Media Type: Broadleaf Vegetation*

*Quantity: GRAMS (wet)*

*Concentration (Activity): pCi/gm wet*

**Media:** WAX MYRTLE

<b><i>Sample Point</i></b>	<b><i>Sample Date</i></b>	<b><i>Quantity</i></b>	<b><i>Isotope</i></b>	<b><i>Activity</i></b>	<b><i>2 Sigma Error</i></b>	<b><i>LLD</i></b>
67	S CLOSE TO SITE BOUNDARY	424.9	BI-214	9.35E-02	3.78E-02	
67	S CLOSE TO SITE BOUNDARY	424.9	K-40	2.47E+00	3.17E-01	
67	S CLOSE TO SITE BOUNDARY	424.9	PB-212	9.58E-02	2.60E-02	
67	S CLOSE TO SITE BOUNDARY	424.9	PB-214	1.00E-01	3.26E-02	
67	S CLOSE TO SITE BOUNDARY	424.9	RA-226	7.22E-01	3.50E-01	
67	S CLOSE TO SITE BOUNDARY	424.9	TH-234	7.09E-01	4.60E-01	
67	S CLOSE TO SITE BOUNDARY	424.9	TL-208	3.59E-02	1.52E-02	