TS 5.6.2

Progress Energy

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United States Nuclear Regulatory Commission
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Washington, DC 20555

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

RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT - 2005

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, 2005, through December 31, 2005.

If you have any questions concerning this report, please contact me at (843) 857-1253.

Sincerely,

C. T. Baucom
Supervisor - Licensing/Regulatory Programs

RAC/rac

Enclosure

c: Dr. W. D. Travers, NRC, Region II
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NRC Resident Inspector

IE25

**Progress Energy Carolinas, Inc.**
Robinson Nuclear Plant
3581 West Entrance Road
Hartsville, SC 29550

# RADIOLOGICAL

# ENVIRONMENTAL OPERATING

# REPORT

# 2005

## 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, 2005

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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, 2005 through December 31, 2005.

The Radiological Environmental Monitoring program was established in 1973. Radiation and radioactivity in various environmental media have been monitored for more than 30 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.

- Aquatic organism monitoring includes fish and aquatic vegetation. Results indicate detectable concentrations of Cs-137 and K-40 in both indicator and control locations for fish, while results also indicate other naturally occurring nuclides in both indicator and control samples. Aquatic vegetation indictor samples indicted the presence of Co-60, I-131, and Cs-137 activity. The source of the I-131 activity was determined not to be the result of HBRSEP effluents, but from the Hartsville Waste Water Plant. 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.

- External radiation dose showed no measurable change from pre-operational data.

- Sediment monitoring includes both shoreline and bottom sediment. During 2005, bottom sediment results indicated the presence of Cs-137. No other gamma activity was detected in any sediment samples, except for naturally occurring gamma activity.

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

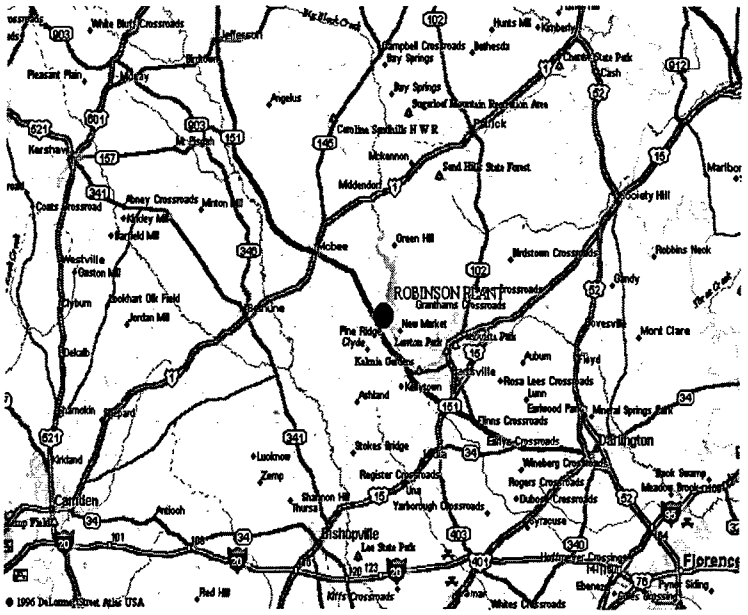



**Figure 1: Location of HBRSEP**

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.

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**

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

## 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

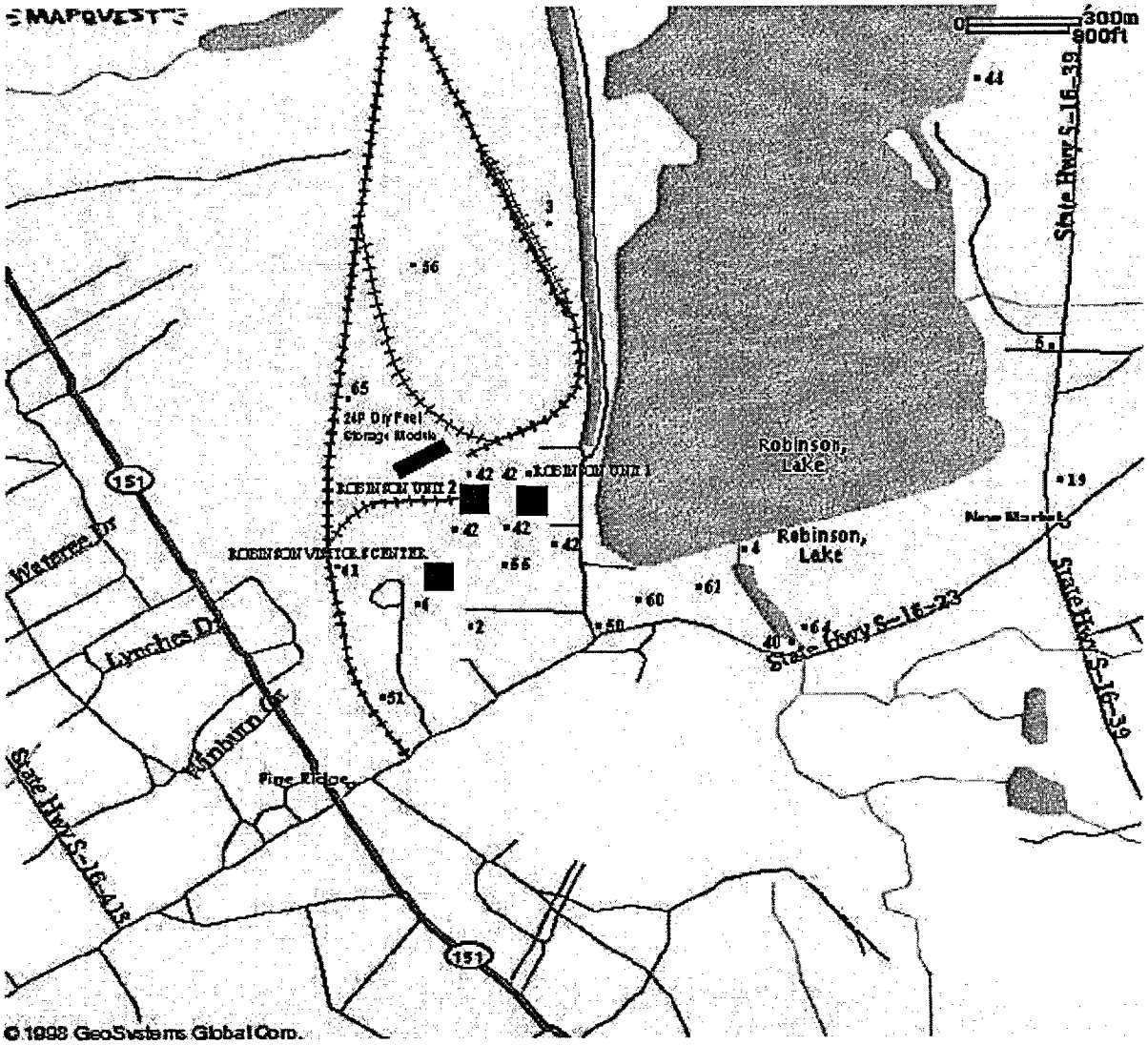



**Figure 2: Radiological Sampling Locations (Near Plant)**

Stations not shown include 1,7-18, 20-39,41,45,46,47,49,52,54,57and 58.

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

## Radiological Sampling Locations

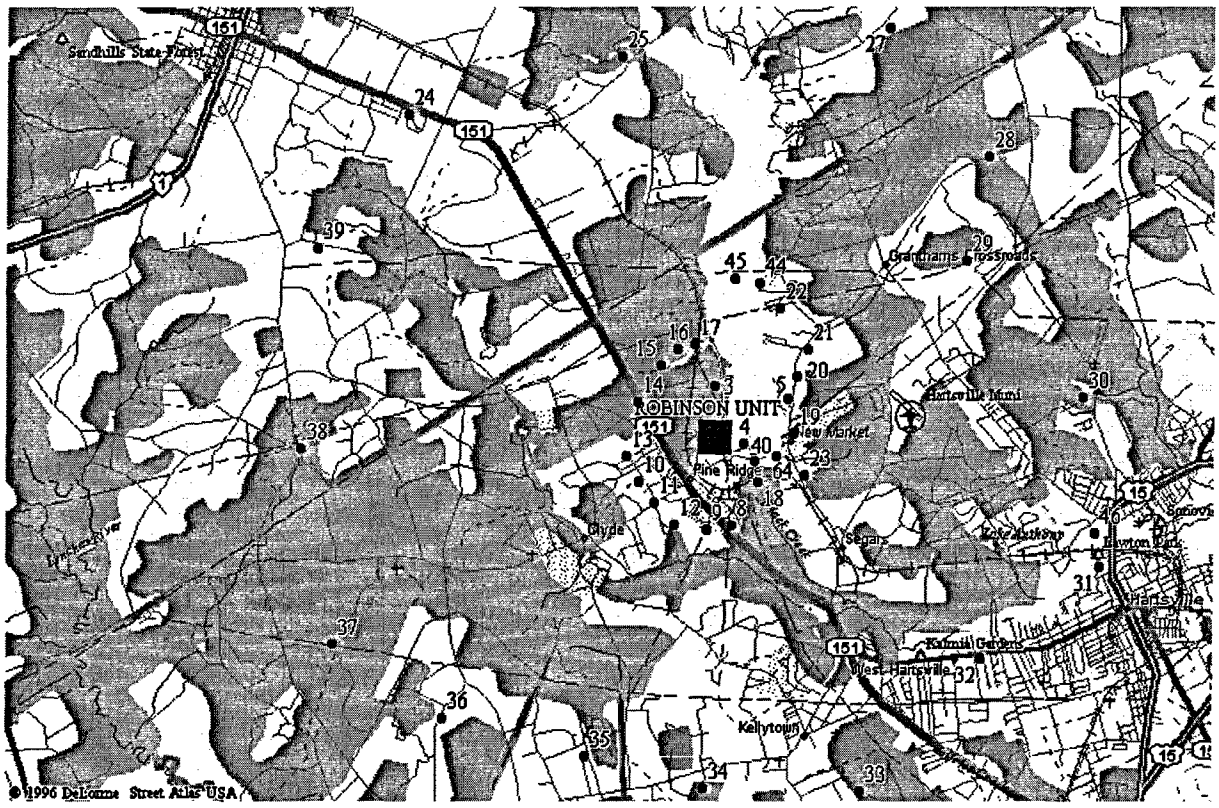



**Figure 3: Radiological Sampling Locations (Distant from Plant)**

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

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

**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.*<br>2--0.2 miles S Information Center<br>3--0.5 miles N Microwave Tower<br>4--0.4 miles ESE Spillway<br>5--0.9 miles ENE East shore of lake near Johnson's Landing<br>6--0.2 miles SSW Information Center<br>7--6.4 miles ESE CP&L facility on RR Ave., Hartsville<br>55--0.2 miles SSE South of West Settling Pond<br>60--0.2 miles SE Robinson Picnic Area<br>61--0.3 miles WSW West Parking lot near RR tracks | Weekly | 410 $m^3$ | Iodine |
| Air Particulate (AP) | 1--24.4 miles ESE Florence, S.C.*<br>2--0.2 miles S Information Center<br>3--0.5 miles N Microwave Tower<br>4--0.4 miles ESE Spillway<br>5--0.9 miles ENE East shore of lake near Johnson's Landing<br>6--0.2 miles SSW Information Center<br>7--6.4 miles ESE CP&L facility on RR Ave., Hartsville<br>55--0.2 miles SSE South of West Settling Pond<br>60--0.2 miles SE Robinson Picnic Area<br>61--0.3 miles WSW West Parking lot near RR tracks | Weekly | 410 $m^3$ | Gross Beta (Weekly)<br><br>Composite Gamma (Quarterly) |
| Fish (FI) | 45--Site varies within Lake Robinson<br>46--Site varies within Prestwood Lake<br>47--Control station, Any lake not influenced by plant discharge* | Semiannual | 450 grams (wet) | Gamma (edible portions) |
| Broadleaf Vegetation (BL) | 50--SSE Close to Site Boundary<br>51--SSW Close to Site Boundary<br>52--10 miles W near Bethune*<br>62--SE Close to Site Boundary | Monthly (As available) | 300 grams (wet) | Gamma<br>Iodine |
| Shoreline Sediment (SS) | 44--1.6 miles NNE East shore of lake, Shady Rest Club<br>57--Ash Pond | Semiannual | 520 grams | Gamma |
| Aquatic Veg. (AV) & Bottom Sediments (SD) | 46--Site varies within Prestwood Lake<br>41--8.0 miles N Black Creek at US Hwy 1*<br>45--Site varies within Lake Robinson<br>54--10.1 miles E Auburndale Plantation | Annual | 400 grams and 520 grams | Gamma |
| Ground Water (GW) | 64--0.6 miles SE Artesian well<br>42--Unit 1 or Unit 2 deep well | Quarterly (as of 7/98) | 4 liters | Gamma<br>Tritium |
| Surface Water (SW) | 40--0.6 miles ESE Black Creek at Old Camden Road (S-16-23)<br>41--8.0 miles N Black Creek at US Hwy 1*<br>57--Ash Pond | Monthly Composite | 4 liters | Gamma<br>Tritium |
| Food Products (FP) | 58--Site varies from plant<br>49--10.0 miles W or greater than 5 miles from plant *<br>54--10.1 miles E Auburndale Plantation | Annual at Harvest | 300 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. *<br>2--0.2 mile S Information Center<br>3--0.5 mile N Microwave Tower<br>4--0.4 mile ESE Spillway<br>5--0.9 mile ENE East shore of lake near Johnson's Landing<br>6--0.2 mile SSW Information Center<br>7--6.4 miles ESE CP&L Facility on RR Ave., Hartsville<br>8--0.8 mile SSE Transmission right-of-way<br>9--1.0 mile S Transmission right-of-way<br>10--1.0 mile WSW Clyde Church of God<br>11--1.0 mile SW Old Camden Road<br>12--1.2 miles SSW off of Old Camden Road<br>13--0.7 miles W Corner of Saluda and Sampit Roads<br>14--0.8 mile WNW First Baptist Church of Pine Ridge<br>15--0.7 miles NW Transmission right-of-way<br>16--1.0 mile NNW South side of Darlington Co. IC Turbine Plant<br>17--1.2 miles N Darlington Co. Plant emergency fire pump<br>18--0.7 mile SE Near Old Black Creek RR trestle<br>19--1.0 mile E Old Camden Road (#S-16-23)<br>20--1.0 mile ENE New Market Road (#S-16-39)<br>21--1.4 miles NE New Market Road (#S-16-39)<br>22--1.7 miles NNE Shady Rest entrance off of Cloverdale Drive<br>23--1.0 miles ESE New Market Road (#S-16-39)<br>24--4.6 miles NW Sowell Road (#S-13-711)<br>25--4.0 miles NNW Lake Robinson Road (#S-13-346)<br>26--5.0 miles N Lake Robinson Road (#S-13-346)<br>27--5.4 miles NNE Prospect Church Road (#S-13-763)<br>28--4.3 miles NE New Market Road (#S-13-39)<br>29--4.0 miles ENE Ruby Road (#S-16-20)<br>30--4.4 miles E Ruby Road (#S-16-20)<br>31--4.6 miles ESE on Lakeshore Drive<br>32--4.0 miles SE Transmission right-of-way<br>33--4.5 miles SSE on Bay Road (#S-16-493)<br>34--4.7 miles S on Kellybell Road (#S-16-772)<br>35--4.5 miles SSW Kelly Bridge Road (#S-31-51)<br>36--5.0 miles SW on Kingston Drive<br>37--5.0 miles WSW Pine Cone Road<br>38--4.9 miles W at Union Church Road<br>39--5.1 miles WNW King's Pond Road<br>55--0.2 miles SSE South of the West Settling Pond<br>56--0.4 miles NNW North of the center of the 7P-ISFSI<br>61--0.3 miles WSW West parking lot near RR tracks<br>65--0.3 miles WNW Northwest of the 24P-ISFSI | Quarterly | Not Applicable | TLD Reading<br><br>Gamma Dose |

*Control Station

## 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 1,402 samples were collected from indicator and control locations and 1,446 analyses and measurements were made during 2005. Detectable radioactivity resulting from plant operation was found in 20 out of 24 indicator samples of surface water (Table 4). Only the tritium activity in fish samples constituted a potential 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 an adult) from the fish consumption of approximately 46 pounds (21 kg) of fish per year and assuming that tritium concentration is in equilibrium with the fish flesh is 0.006 millirem per year.

1. A statistical summary of all the data gathered in 2005 has been compiled in Table 3.

2. Radioactivity in environmental samples attributed to plant operations in 2005, 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 2005 were less than reporting levels as defined in HBRSEP ODCM. Table 5 summarizes the reporting levels.

4. Environmental sampling and analyses performed during 2005 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, Bottom Sediment, and Aquatic Vegetation | 8.0 miles N, Black Creek at US Highway 1 (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 2005

| Medium or Pathway Sampled or Measured (Unit of Measurement) | Type and Total No. of Measurements Performed | Lower Limit of Detection (LLD)[1] | All Indicator Locations Mean Range[2] | Location w/Highest Annual Mean: Name, Distance, and Direction | Location w/Highest Annual Mean: Mean Range[2] | Control Locations Mean Range[2] | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Air Cartridge ($pCi/m^3$) | I-131 520[3] | 6.8E-2 | All less than LLD | --------- | --------- | All less than LLD | 0 |
| Air Particulate ($pCi/m^3$) | Gross Beta 520[3] | 3.0E-3 | 2.37E-2 (468/468)<br>5.37E-3 - 4.69E-2 | Robinson Picnic Area<br>0.2 mile SE | 2.50E-2 (52/52)<br>1.43E-2 - 4.34E-2 | 2.50E-2 (52/52)<br>1.22E-2 - 3.82E-2 | 0 |
| | Gamma 40 | See Table 6 | All less than LLD | --------- | --------- | All less than LLD | 0 |
| Aquatic Vegetation[5] (pCi/g, wet) | Gamma 5 Co-60 | 4.8E-2 | 3.50E-2 (2/4)<br>3.12E-2 – 3.88E-2 | Site varies within Prestwood Lake | 3.88E-2 (1/1)<br>Single value | All less than LLD | 0 |
| | I-131[9] | 5.5E-2 | 3.33E+0 (2/4)<br>1.07E-2 – 6.64E+0 | Auburndale Plantation<br>10.1 miles E | 3.33E+0 (2/4)<br>1.07E-2 – 6.64E+0 | All less than LLD | 0 |
| | Cs-137 | 4.5E-2 | 2.36E-2 (1/4)<br>Single value | Auburndale Plantation<br>10.1 miles E | 2.36E-2 (1/4)<br>Single value | All less than LLD | 0 |
| Broadleaf Vegetation (pCi/g, wet) | Gamma 76[3][4] Cs-137 | 7.4E-2 | 4.93E-2 (9/57)<br>2.51E-2 – 9.08E-2 | Close to Site Boundary SSE | 5.27E-2 (4/19)<br>2.51E-2 – 9.08E-2 | 1.07E-1 (3/19)<br>9.90E-2 – 1.12E-1 | 0 |
| Fish (pCi/g, wet) Bottom-Feeder | Gamma 6 K-40 | 7.1E-1 | 3.05E+0 (4/4)<br>2.52E+0 – 4.49E+0 | Site varies within Prestwood Lake | 3.58E+0 (2/2)<br>2.66E+0 – 4.49E+0 | 2.42E+0 (2/2)<br>2.06E+0 – 2.78E+0 | 0 |
| | Cs-137 | 1.2E-1 | 3.24E-2 (2/4)<br>2.66E-2 – 3.82E-2 | Site varies within Prestwood Lake | 3.82E-2 (1/2)<br>Single value | 6.59E-2<br>4.15E-2 – 9.03E-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 2005

| Medium or Pathway Sampled or Measured (Unit of Measurement) | Type and Total No. of Measurements Performed | Lower Limit of Detection (LLD) [1] | All Indicator Locations Mean Range[2] | Location w/Highest Annual Mean: Name, Distance, and Direction | Location w/Highest Annual Mean: Mean Range[2] | Control Locations Mean Range[2] | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Fish (pCi/g, wet) Free-Swimmer | Gamma 6 K-40 | 7.1E-1 | 2.46E+0 (4/4) 1.54E+0 – 3.08E+0 | Site varies within Lake Robinson | 2.61E+0 (2/2) 2.47E+0 – 2.75E+0 | 2.39E+0 (2/2) 2.29E+0 – 2.49E+0 | 0 |
| | Cs-137 | 1.2E-1 | 6.50E-2 (4/4) 5.00E-2 – 7.28E-2 | Site varies within Prestwood Lake | 7.00E-2 (2/2) 6.72E-2 – 7.82E-2 | 8.21E-2 (2/2) 4.42E-2 – 1.20E-1 | 0 |
| Ground Water (pCi/l) | Gamma 8 | See Table 6 | All less than LLD | --------- | --------- | No control | 0 |
| | Tritium 8 | 3.25E+2 (8/8)[7] | All less than LLD | --------- | --------- | 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 2005

| Medium or Pathway Sampled or Measured (Unit of Measurement) | Type and Total No. of Measurements Performed | Lower Limit of Detection (LLD)[1] | All Indicator Locations Mean Range[2] | Location w/Highest Annual Mean: Name, Distance, and Direction | Location w/Highest Annual Mean: Mean Range[2] | Control Locations Mean Range[2] | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Food Products (pCi/g, wet) | Gamma 8[3] K-40 | 6.1E-1 | 2.25E+0 (4/4) 1.36E+0 – 2.91E+0 | Site varies from Plant | 2.25E+0 (4/4) 1.36E+0 – 2.91E+0 | 2.04E+0 (4/4) 1.14E+0 – 2.85E+0 | 0 |
| Shoreline Sediment (pCi/g, dry) | Gamma 4 | See Table 6 | All less than LLD | --------- | --------- | No Control | 0 |
| Bottom Sediment[5] (pCi/g, dry) | Gamma 4 Cs-137 | 1.2E-1 | 1.43E-1 (1/3) Single value | Site varies within Lake Robinson | 1.43E-1 (1/1) Single value | 2.30E-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 2005

| Medium or Pathway Sampled or Measured (Unit of Measurement) | Type and Total No. of Measurements Performed | Lower Limit of Detection (LLD)[1] | All Indicator Locations Mean Range[2] | Location w/Highest Annual Mean: Name, Distance, and Direction | Location w/Highest Annual Mean: Mean Range[2] | Control Locations Mean Range[2] | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Surface Water (pCi/l) | Gamma 36 | See Table 6 | All less than LLD | -------- | --------- | All less than LLD | 0 |
| | Tritium 36 | 3.25E+2 (34/36)[7]<br>3.75E+2 (2/36)[8] | 2.76E+3 (20/24)<br>5.10E+2 – 4.97E+3 | Black Creek at Old Camden<br>0.6 miles ESE | 2.83E+3 (10/12)<br>5.10E+2 – 4.97E+3 | All less than LLD | 0 |
| TLD (mR/qtr)[6] | TLD 169[3] | N/A | 1.38E+1 (165/166)<br>9.40E+0 - 2.11E+1 | Pine Cone Road<br>5.0 miles WSW | 2.03E+1 (4/4)<br>1.95E+1 - 2.11E+1 | 1.27E+1 (4/4)<br>1.21E+1 - 1.33E+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. Tritium LLD was lowered to 3.25E+2 pCi/L in June 1996 for samples that typically demonstrate activity less than the LLD (groundwater and surface water control). The LLD was lowered at the request of the plants in order to maintain comparable LLD and result values with the state (N.C. and S.C.) Agencies' laboratories. Other samples that typically exhibit activity greater than the LLD have a tritium Lower Limit of Detection (LLD) of 1.0E+3 pCi/L.

8. The tritium LLD was increased to 3.75E+2 pCi/L for a temporary timeframe due to a problem with the wrong type of glass liquid scintillation vials being used (NCR # 150577).

9. See Interpretations and Conclusions for Aquatic Vegetation discussion of I-131 activity.

## TABLE 4

**Potential Dose Pathways**

| Sample Media | Radionuclide | Average Concentration and Occurrence | Maximum Individual Dose |
|---|---|---|---|
| Surface Water | H-3 | 2.76E+3 (pCi/L) (20/24) | 0.006 millirem/yr (from fish) |

## TABLE 5

## Reporting Levels for Radioactivity Concentrations in Environmental Samples

| Radionuclide | Water (pCi/l) | Airborne (pCi/m$^3$) | Fish (pCi/kg, wet) | Milk (pCi/l) | Food Products (pCi/kg, wet) |
|---|---|---|---|---|---|
| H-3 | 3E+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 2005 had a mean gross beta activity of 2.37E-2 pCi/m$^3$ for the indicator stations versus an average concentration of 2.50E-2 pCi/m$^3$ for the control stations. These data are essentially unchanged from 2004; they are consistent with pre-operational data obtained for the HBRSEP Unit No. 2 (1.40E-1 pCi/ m$^3$), 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 2005. 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 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 2005.

### Broadleaf Vegetation

Broadleaf vegetation sampling is accomplished by collecting cherry, dogwood, sassafras, and wax myrtle leaves in 2005. 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 2005, 9 of 57 samples taken from the indicator site demonstrated detectable concentrations of Cs-137 for an average value of 4.93E-2 pCi/g (wet). The control samples had detectable concentrations of Cs-137 in 3 of 19 samples with a mean concentration of 1.07E-1 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 2005, 2 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 3.24E-2 pCi/g (wet) and 6.50E-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 6.59E-2 pCi/g (wet) and 8.21E-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 (except for naturally occurring gamma activity) or tritium activity was detected in the eight samples of ground water collected in 2005, which is consistent with the observations in previous years.

## 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 2005, since no gardens were irrigated with water influenced by the plant effluent, no food crops were required to be obtained. Nonetheless, some samples were obtained from control location (FP-49) and indicator location (FP-58) food products (collards, squash, and tomatoes). No gamma activity associated with plant operation was detected in any control or indicator samples in 2005.

## Shoreline Sediment

In 2005, 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 2005.

## Bottom Sediment

Cs-137 activity was detectable in 1 of the 3 indicator bottom sediment samples in 2005, with a single value concentration of 1.43E-1 pCi/g (dry). The control sample had detectable concentrations of Cs-137 (2.30E-1 pCi/g (dry)). No other gamma activity, except for naturally occurring gamma activity, was detected in the annual bottom sediment samples in 2005.

## Aquatic Vegetation

In 2005, data shows that there were four 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; however, Co-60 activity was detectable in 2 of the 4 indicator samples with a mean concentration of 3.50E-2 pCi/g (wet) and Cs-137 activity was detectable in 1 of 4 indicator samples with a concentration of 2.36E-2 pCi/g (wet) in 2005. I-131 (6.64E+0 pCi/g (wet)) was detected at the Auburndale Plantation aquatic vegetation indicator sample in May 2005 (NCR # 160564). The

detection of I-131 in an environmental sample was unexpected due to the fact that HBRSEP (RNP) does not routinely release I-131 and did not release any measurable amounts in 2005. Additional aquatic vegetation samples were taken at various locations in order to try and locate the source of the I-131 activity. The additional samples showed that the I-131 activity was not from Prestwood Lake, which would be the exposure pathway if RNP were the source for the I-131 activity, but it appeared that the source was from the Hartsville Waste Water Plant. Therefore, the I-131 activity detected in the aquatic vegetation samples was not the result of plant effluents.

## Surface Water

Surface waters of Lake Robinson indicated the presence of tritium which is attributed to plant operation. See Figure 13 which displays the tritium activity throughout 2005. 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 from Lake Robinson. Using the methodology of Regulatory Guide 1.109, Equation A-1, (below) a dose of 0.006 millirem/year to the maximum exposed individual could be assigned to this pathway.

Equation A-1

$$R_{aipj} = C_{ip}\, U_{ap}\, D_{aipj}$$

where:

| | | |
|---|---|---|
| $R_{aipj}$ | = | total body dose in mrem/yr due to H-3 |
| $C_{ip}$ | = | concentration of nuclide (H-3) in pCi/kg = pCi/l |
| $U_{ap}$ | = | maximum exposed individual's consumption (Reg. Guide 1.109, Table E-5) (46 lbs. of fish per year = 21 kg of fish/yr.) |
| $D_{aipj}$ | = | ingestion dose factor for total body of individual (adult) in $U_{ap}$ in mrem/pCi (Reg. Guide 1.109 Table E-12) |

The monthly composite gamma analyses for surface water samples revealed no radionuclides typical of plant effluents.

## 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 5 miles. The average of inner versus outer ring dose measurements is shown on Figure 14.

TLDs # 61 and # 65 were added to the RNP Radiological Environmental Monitoring Program (REMP) in the second quarter of 2005.

## Asiatic Clams

Benthic samples from Lake Robinson during 2005 continue to confirm the absence of any substantial populations of Asiatic clams (*Corbicula fluminia*). 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 2005.

Missed Surveillances:

- AP-3, February 20 – The filter shifted in the holder during the sample period in such a way that it created an opening that allowed some volume of air to bypass the filter during the sampling period. This caused some of the sample to bypass the filter and resulted in lower than normal Gross Beta counts (NCR # 152309).
- AP-5, February 20 - The filter shifted in the holder during the sample period in such a way that it created an opening that allowed some volume of air to bypass the filter during the sampling period. This caused some of the sample to bypass the filter and resulted in lower than normal Gross Beta counts (NCR # 152309).
- APAC-4, April 17 - Air sampler was found not running and the fuse was blown. Replaced the fuse and the unit was returned to service (NCR # 156654).
- APAC-4, April 24 – Air sampler was found not running with a blown fuse. Replaced the fuse and the air sampler blew that fuse too. It was determined that the carbon vanes needed replacing – replaced the carbon vanes and unit was running satisfactorily (NCR #157183).
- APAC-5, September 6 - Down time greater than 30 hours due to a tripped breaker during a lightning storm (NCR # 175465).
- APAC-7, October 24 - Down time greater than 30 hours due to sample pump failure (NCR # 173924).
- APAC-1 January 3, 2006 (December 2005 – January 2006) - Down time of 175 hours due to the failure of the carbon vanes. The carbon vanes were replaced (NCR # 179911).

The data for this surveillance period will be reported in the RNP 2006 Annual Radiological Environmental Operating Report.

**Broadleaf Vegetation**

Broadleaf vegetation (BL) samples were not available during the months of January, February, March, April, and December of 2005 due to the seasonal nature of broadleaf vegetation (NCR # 149533, 152306, 155623, 155579, and 178102). Only one type of broadleaf vegetation was available in November of 2005 for sampling due to the seasonal unavailability of the vegetation.

**Thermoluminescent Dosimeters (TLDs)**

One of a possible 170 TLD samples was missing during 2005.

Third Quarter: TLD # 36 results were elevated and determined to be aberrant; therefore, these results will not be reported. The elevated results were due to water intrusion into the phosphorus of the TLD (NCR # 173396).

## 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 3.0E-3 pCi/m$^3$.

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 200 minutes. The lower LLD (3.25E+2 pCi/L) was established to maintain comparable LLD and result values with the State Agencies reportable concentrations in the Split Sample Program Report. The change to a lower LLD was a result of a request from the plants (see Footnotes to Table 3, Number 7). The LLD was increased to 3.75E+2 pCi/L in January of 2005 for a temporary timeframe due to a problem with the wrong type of glass liquid scintillation vials being used (NCR # 150577). The typical LLD of 3.25E+2 pCi/L was resumed in February of 2005.

### 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 6.8E-2 pCi/m$^3$.

## 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 Nuclear 9900 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 boiled down to reduce the volume, transferred to a PB-50 beaker, and are typically analyzed directly for 7,000 seconds for groundwater and 40,000 seconds for surface water samples.

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 cleaned, dressed (raw edible portions), and placed in a 1-liter Marinelli beaker for analysis and are typically counted for 3,000 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 Analytics, Inc., Environmental Cross Check Program and uses its performance in this program as a major determinant of the accuracy and precision of its analytical results.

During 2005, 104 analyses were completed on 19 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 104 analyses have been received from Analytics, Inc. The results were compared to the criteria established in the NRC Inspection Manual (Procedure 84750) for Radioactive Waste Treatment, Effluent, and Environmental monitoring.

All 104 analyses were within the current acceptance criteria used to monitor equipment performance by the radioanalytical lab. During the review of this report it was determined that the method used to implement the acceptance criteria requires additional validation to assure it meets the intent of site requirements. NCR # 194215 has been written to perform this evaluation and document results. Complete documentation of any evaluation will be available and provided to the NRC upon request.

## Lower Limits of Detection

The samples analyzed met the "a priori" LLD required by the ODCM, except for AC-5 September 6, 2005 due to a missed surveillance period. The AC exceeded the I-131 "a priori" LLD Limit (7.0E-2 pCi/m$^3$), but no I-131 activity was identified (NCR # 175465). 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

| Surface Water/Groundwater Samples | |
|---|---|
| **Isotope** | **LLD (pCi/L)** |
| Mn-54 | 3 / 6 |
| Co-58 | 4 / 11 |
| Fe-59 | 9 / 17 |
| Co-60 | 5 / 13 |
| Zn-65 | 8 / 18 |
| Zr-Nb-95 | 7 - 5 / 13 - 9 |
| I-131 | 14 / 7 |
| Cs-134 | 5 / 9 |
| Cs-137 | 4 / 8 |
| Ba-La-140 | 35 - 13 / 32 - 14 |
| **Air Particulates (Quarterly Composite)** | |
| **Isotope** | **LLD (pCi/m$^3$)** |
| Cs-134 | 0.003 |
| Cs-137 | 0.003 |

**Table 6 (cont.)**

| Sediments (Shoreline or Bottom) | |
|---|---|
| **Isotope** | **LLD (pCi/kg, dry)** |
| Cs-134 | 147 |
| Cs-137 | 120 |
| **Fish** | |
| **Isotope** | **LLD (pCi/kg, wet)** |
| Mn-54 | 95 |
| Co-58 | 110 |
| Fe-59 | 257 |
| Co-60 | 123 |
| Zn-65 | 245 |
| Cs-134 | 126 |
| Cs-137 | 123 |
| **Food Products and Vegetation / Aquatic** | |
| **Isotope** | **LLD (pCi/kg, wet)** |
| I-131 | 57 / 56 |
| Cs-134 | 59 / 54 |
| Cs-137 | 74 / 46 |

# 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 once per 24 months 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 both to ensure the monitoring program is current, as well as 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 that 500 square feet, producing broadleaf vegetables
- The nearest milk animal

The primary method is visual inspection from roadside within the five (5) mile radius. This information is supplemented with data from aerial photographs, information from county extension agents, farm supply businesses, and knowledge of the area.

## Land Use Census Results

There was no Land Use Census performed in 2005 per ODCM 4.4.1 which states that the land use census shall be conducted once per 24 months during the growing season. The last RNP land use census was performed in 2004. The 2004 and 2002 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 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.

## TABLE 7

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

## LAND USE CENSUS COMPARISONS (2002-2004)
## NEAREST PATHWAY (MILES)

| SECTOR | RESIDENT | | GARDEN | | MEAT/ EGG | | MILK | |
|---|---|---|---|---|---|---|---|---|
| | 2004 | 2002 | 2004 | 2002 | 2004 | 2002 | 2004 | 2002 |
| N | 2.8* | 2.8 | 3.3* | 3.8 | 3.3 | 3.3 | --- | --- |
| NNE | 1.5 | 1.5 | 2.1* | 1.9 | 4.3* | 1.7 | --- | --- |
| NE | 1.0 | 1.0 | 2.6* | 1.7 | 2.8* | 1.8 | --- | --- |
| ENE | 0.8 | 0.8 | 1.1* | 1.1 | 2.4* | 2.3 | --- | --- |
| E | 0.9 | 0.9 | 0.8* | 1.1 | --- | --- | --- | --- |
| ESE | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | --- | --- |
| SE | 0.4 | 0.4 | 1.9 | 1.9 | 2.0* | 1.9 | --- | --- |
| SSE | 0.4 | 0.4 | 2.4 | 2.4 | 2.4 | 2.4 | --- | --- |
| S | 0.4 | 0.4 | 0.5* | 1.5 | 2.6* | 0.5 | --- | --- |
| SSW | 0.4 | 0.4 | 0.8 | 0.8 | 0.9* | 0.9 | --- | --- |
| SW | 0.5 | 0.5 | 1.0 | 1.0 | 3.5* | 1.5 | --- | --- |
| WSW | 0.5 | 0.5 | 0.6* | 0.7 | 0.6 | 0.6 | --- | --- |
| W | 0.5* | 0.6 | 0.5* | 0.6 | 0.8 | 0.8 | --- | --- |
| WNW | 0.6 | 0.6 | 0.7 | 0.7 | 4.3 | 4.3 | --- | --- |
| NW | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.0 | --- | --- |
| NNW | 2.0* | 2.0 | 3.5* | 2.8 | --- | --- | --- | --- |

*Changes from 2002.

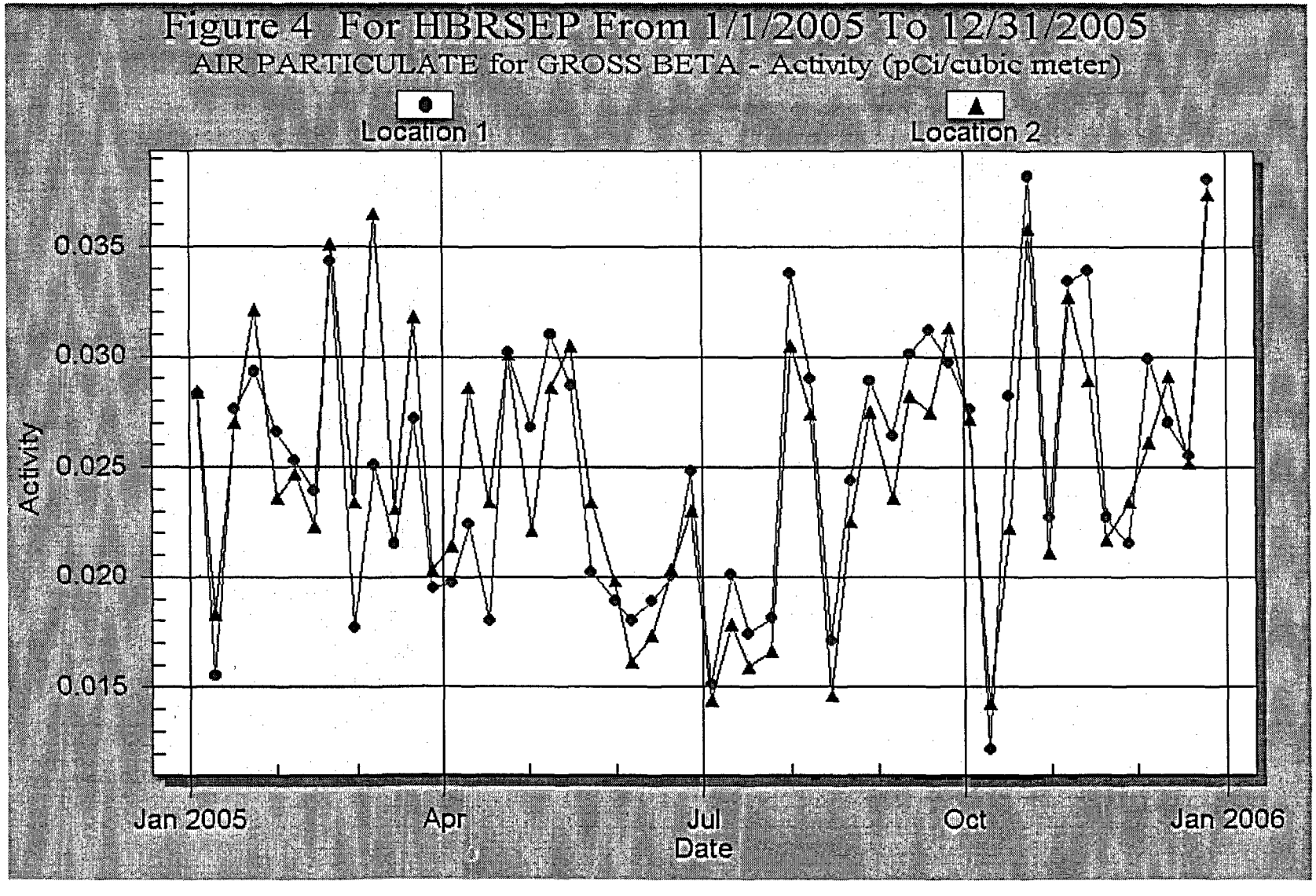


Figure 4 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 2
0.035
0.030
0.025
0.020
0.015
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

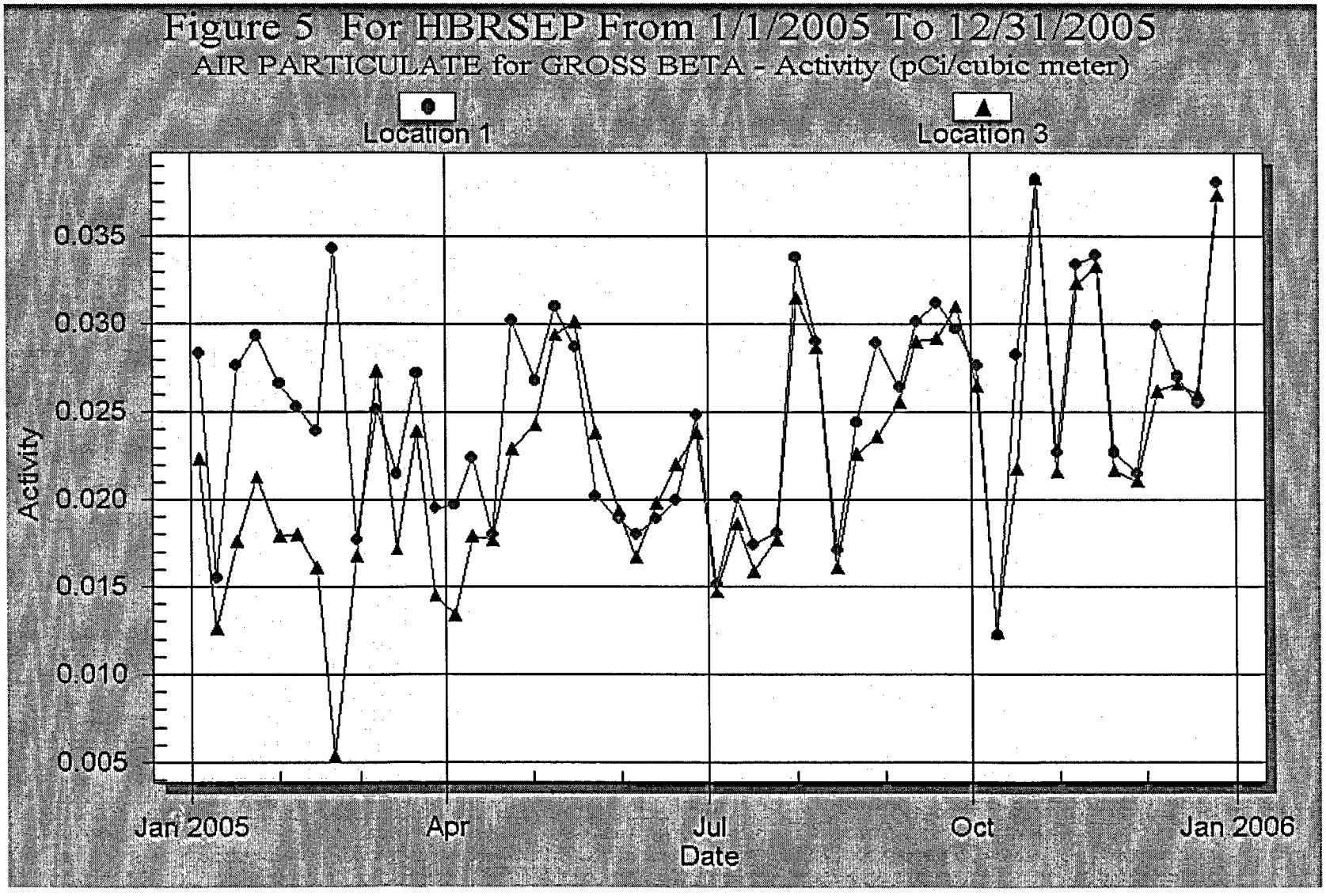


Figure 5 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 3
Activity
0.035
0.030
0.025
0.020
0.015
0.010
0.005
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

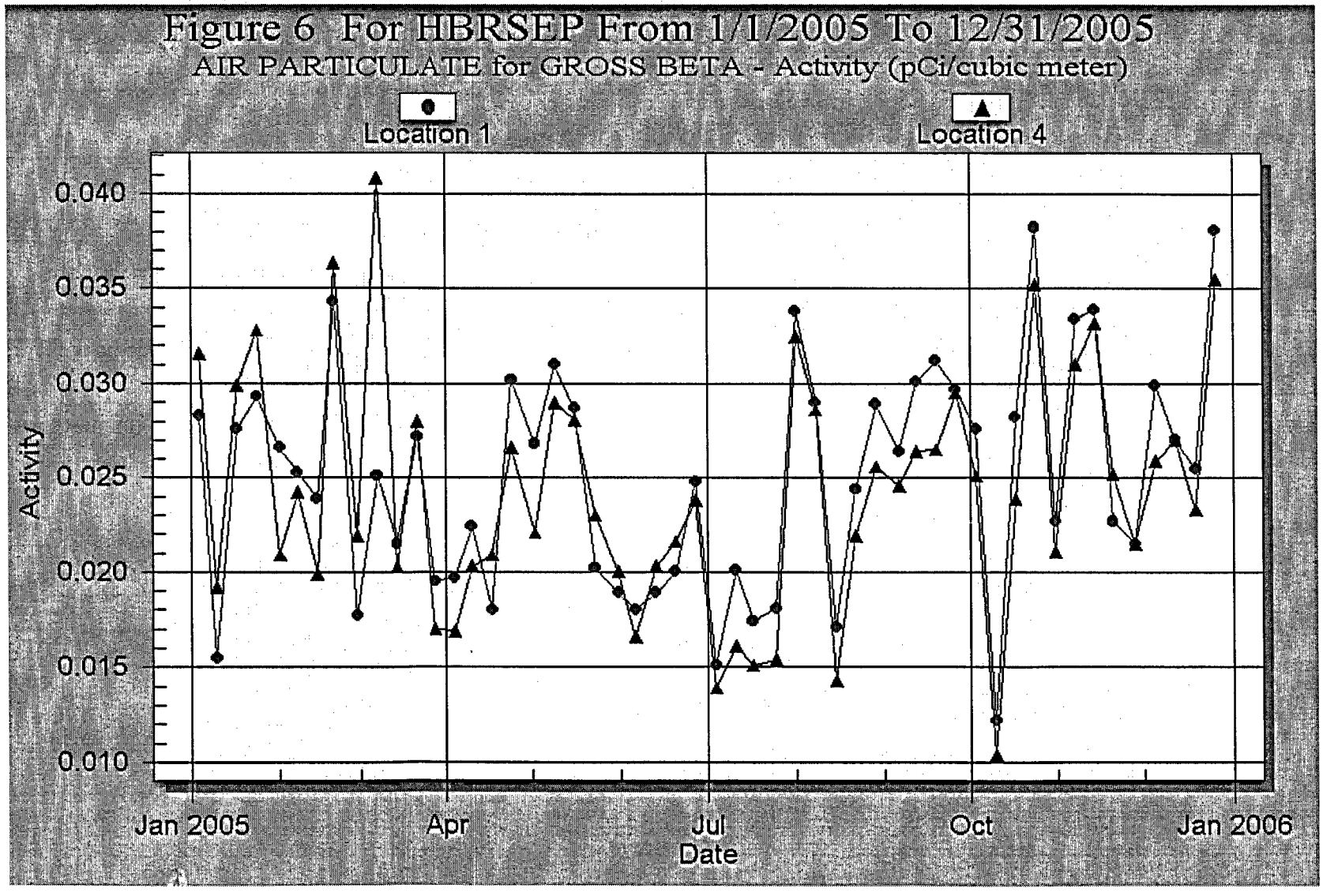


Figure 6 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 4
0.040
0.035
0.030
0.025
0.020
0.015
0.010
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

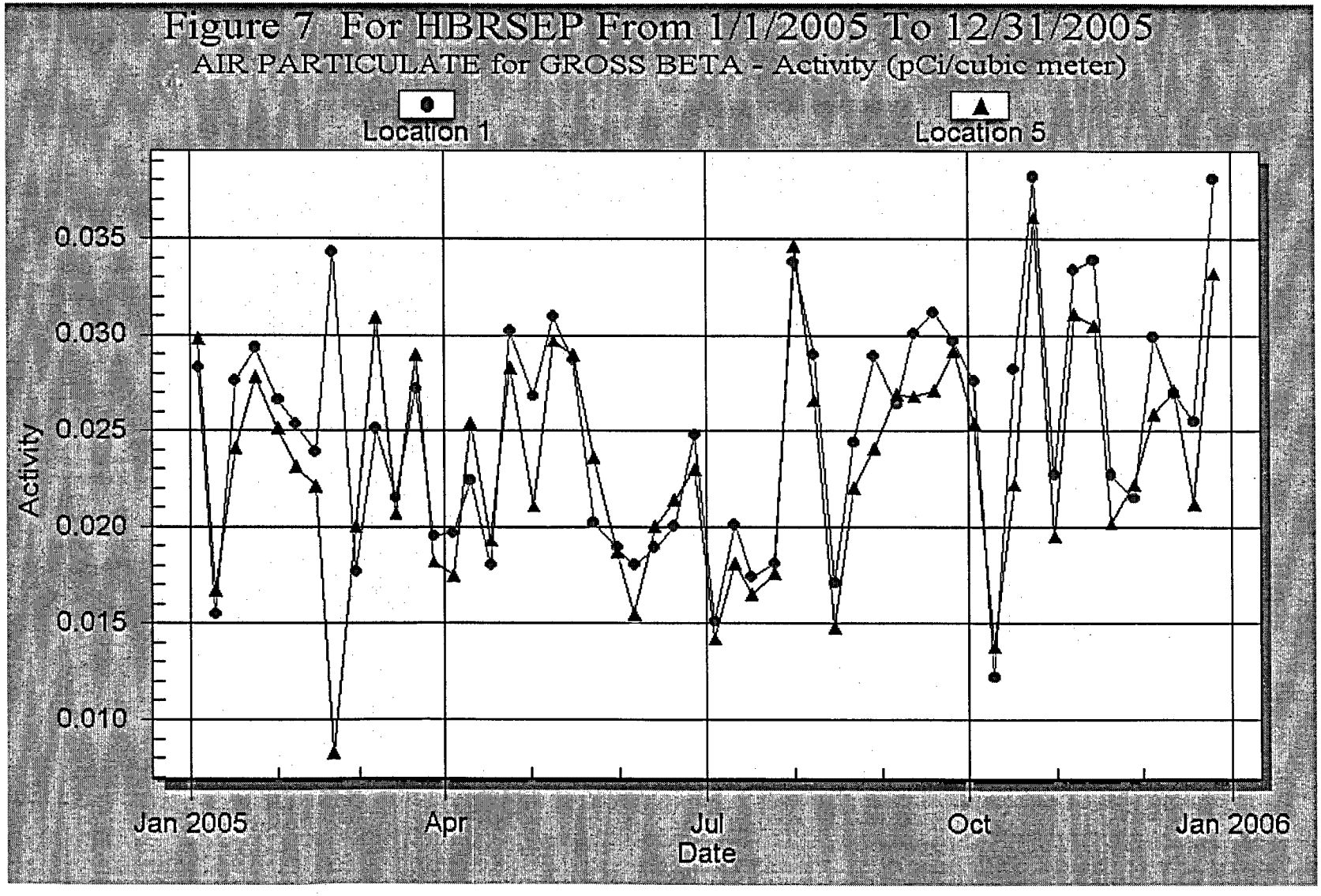


Figure 7 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 5
0.035
0.030
0.025
0.020
0.015
0.010
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

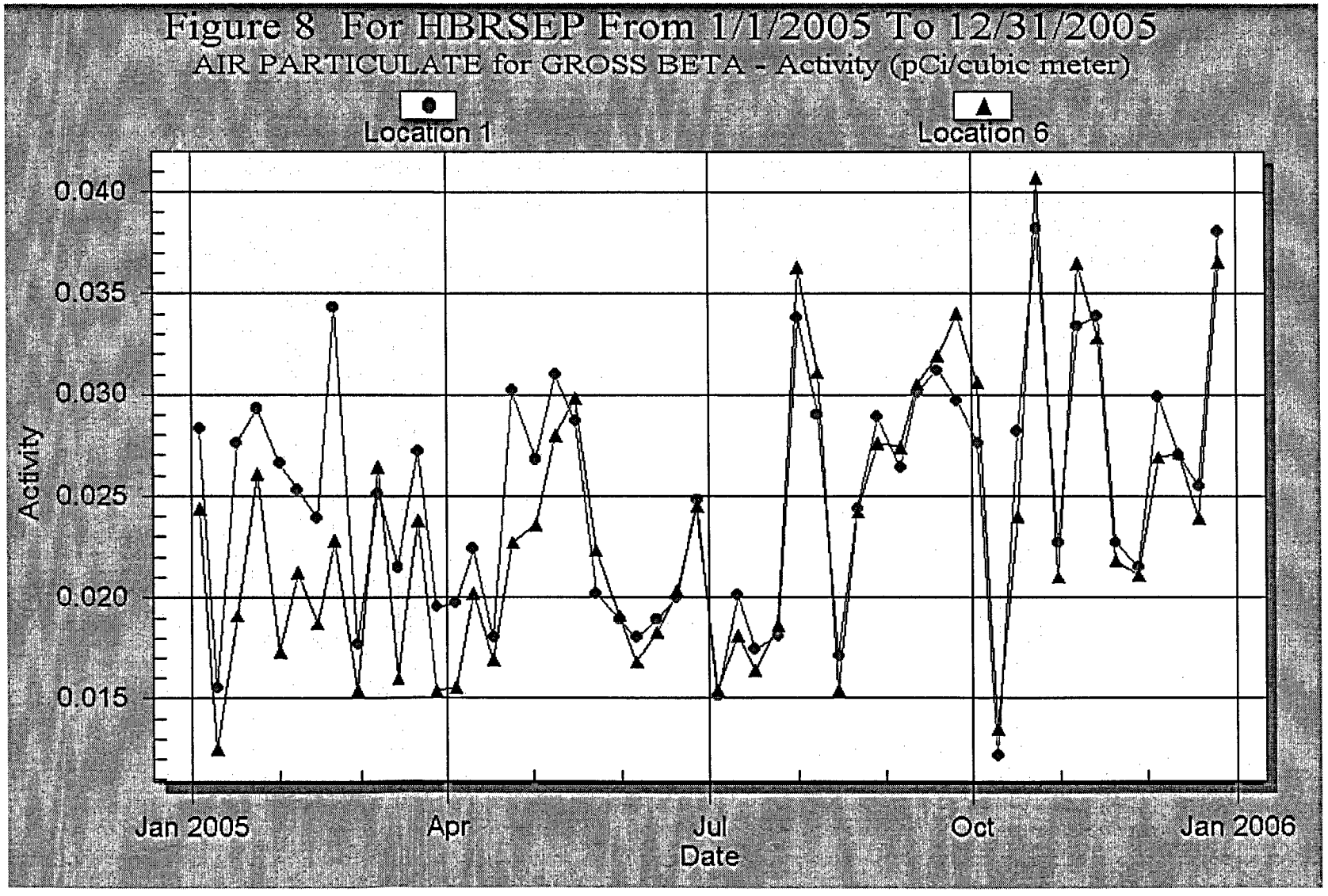


Figure 8 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 6
0.040
0.035
0.030
0.025
0.020
0.015
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

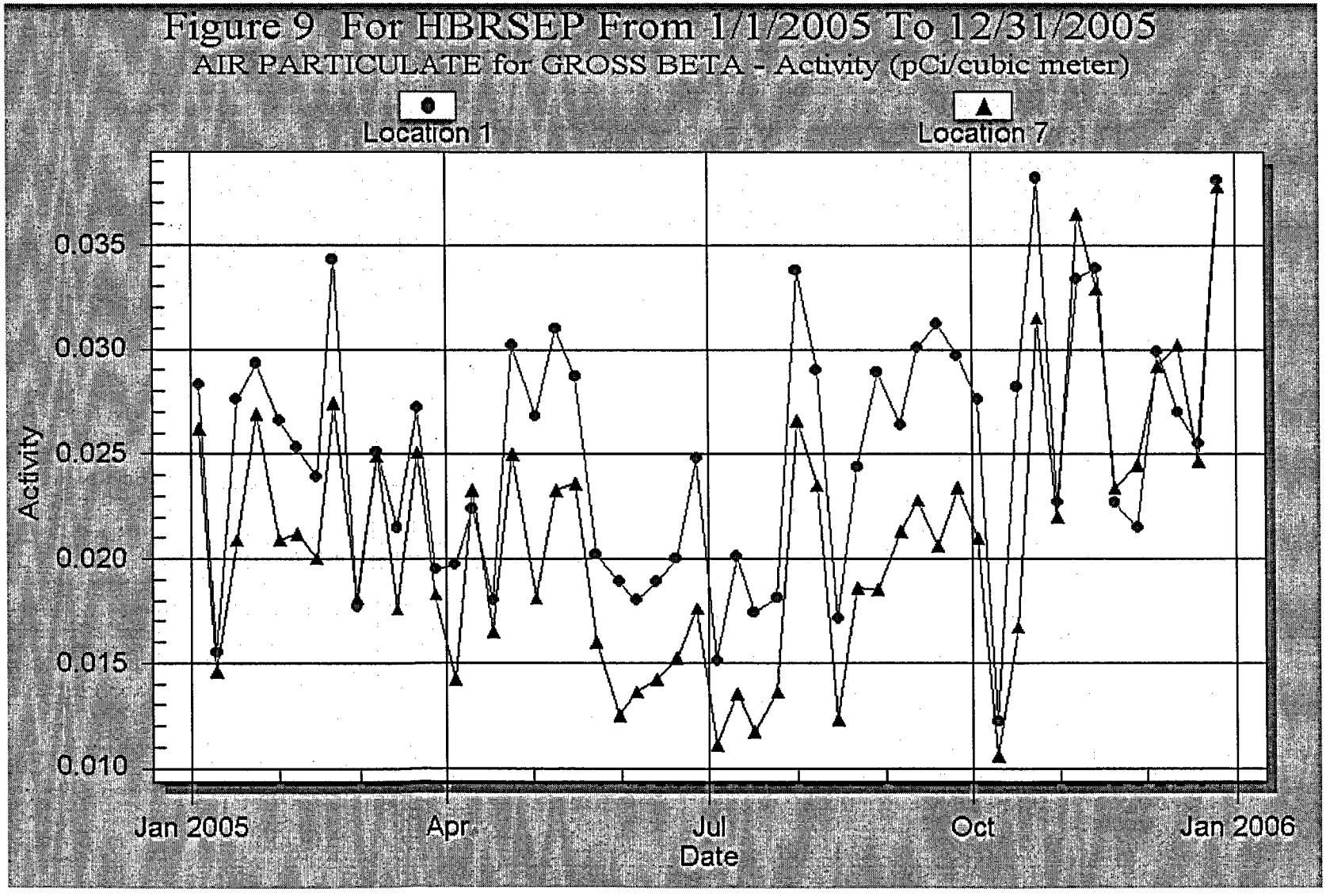


Figure 9 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 7
Activity
0.035
0.030
0.025
0.020
0.015
0.010
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

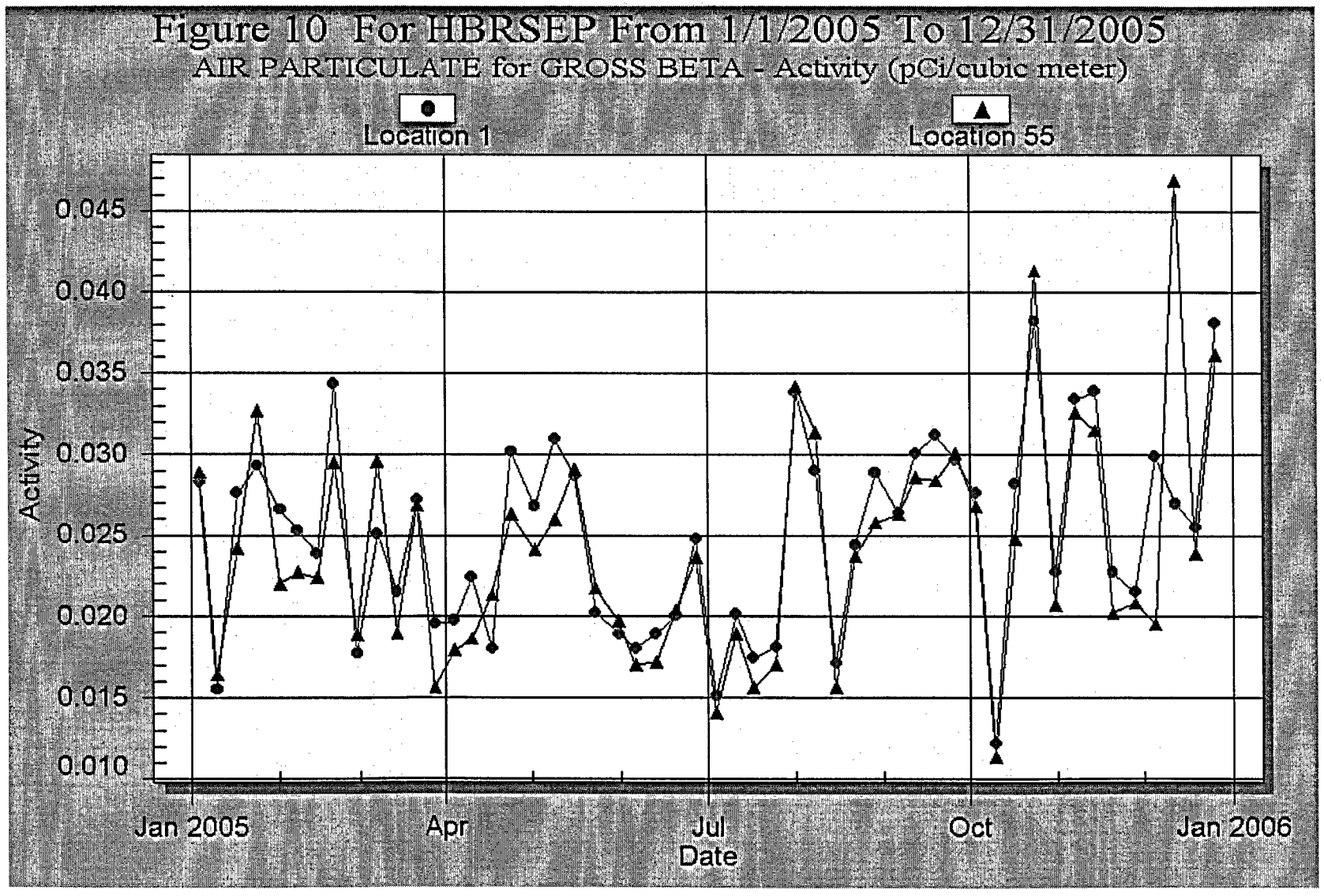


Figure 10 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 55
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

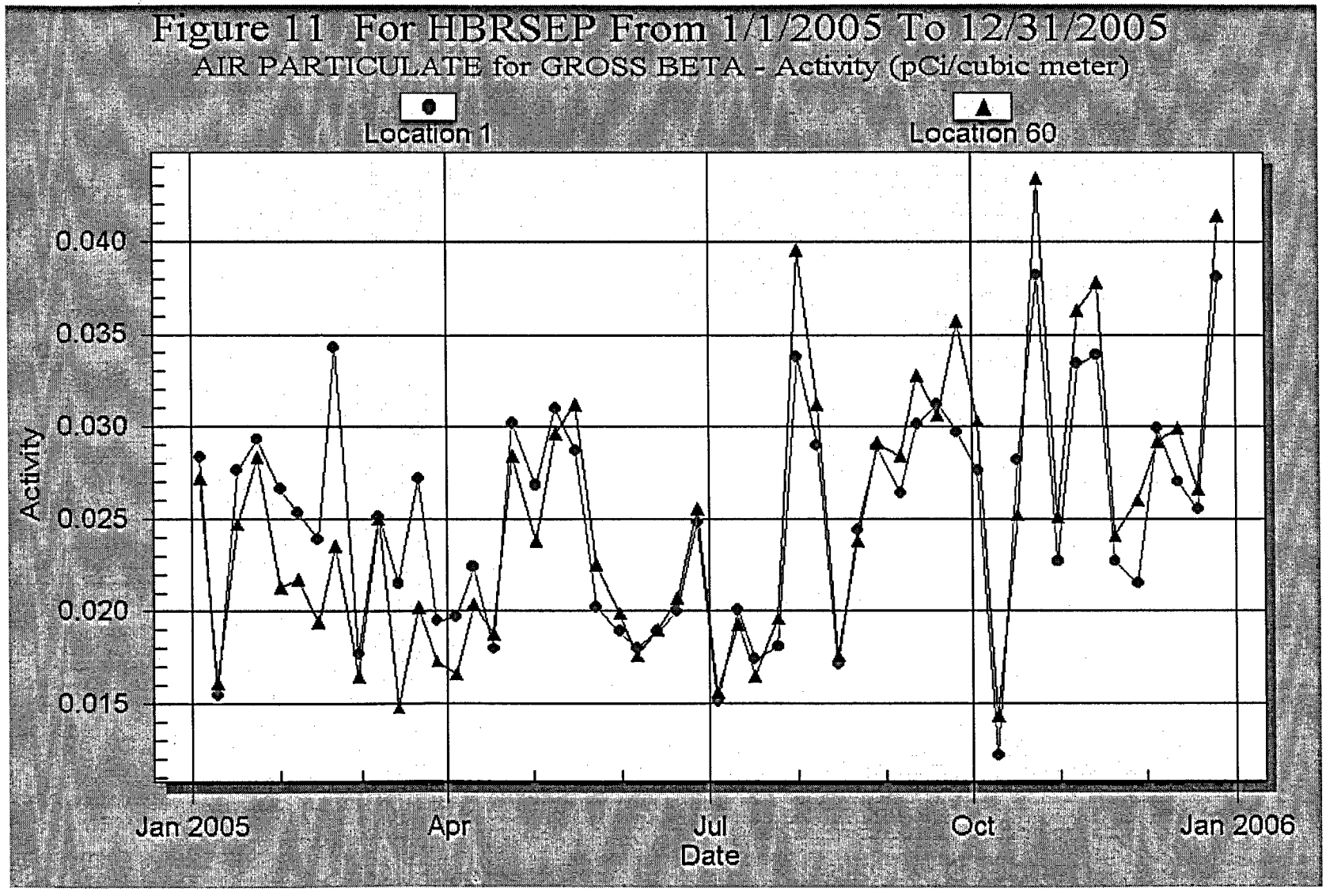


Figure 11 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 60
0.040
0.035
0.030
0.025
0.020
0.015
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

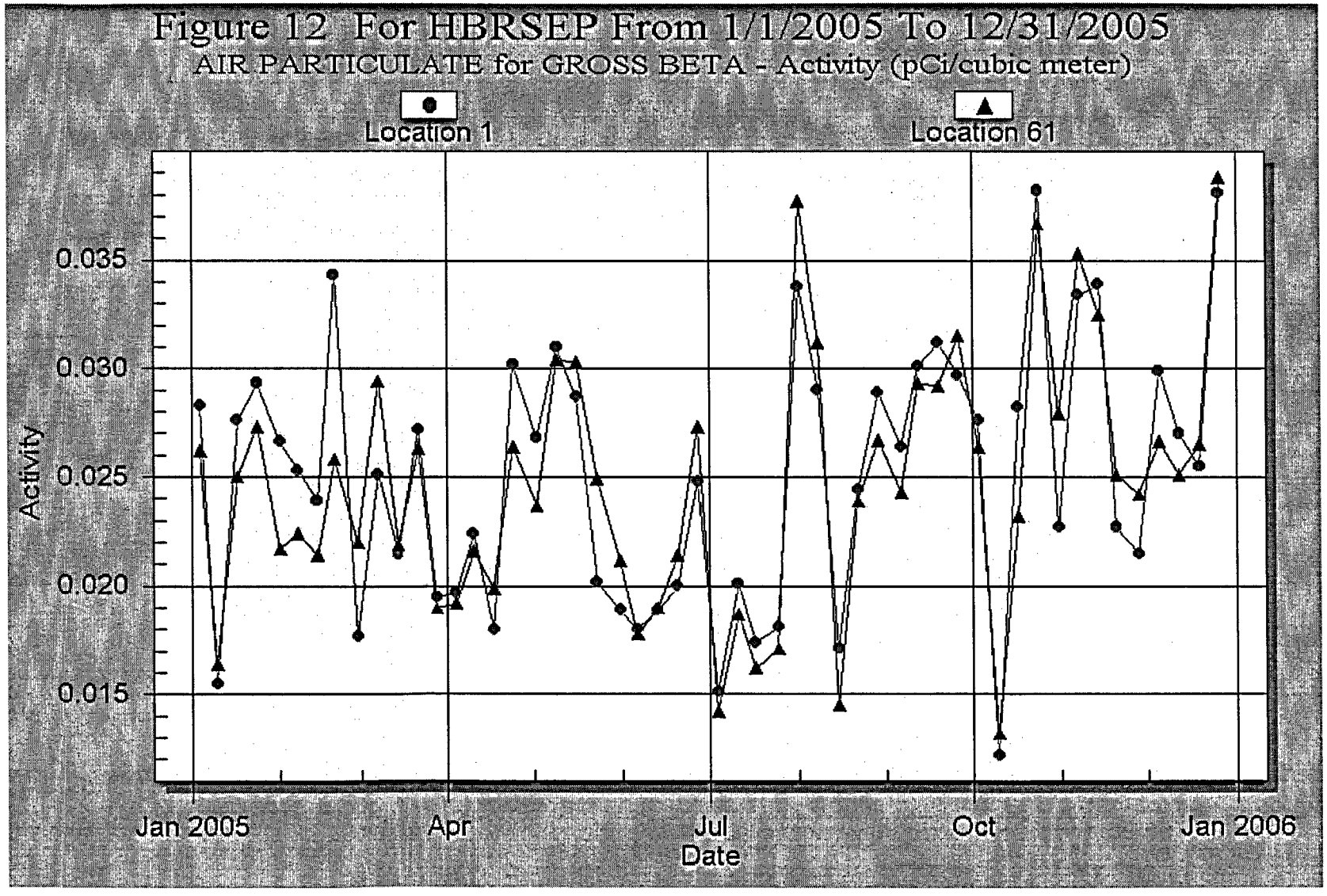
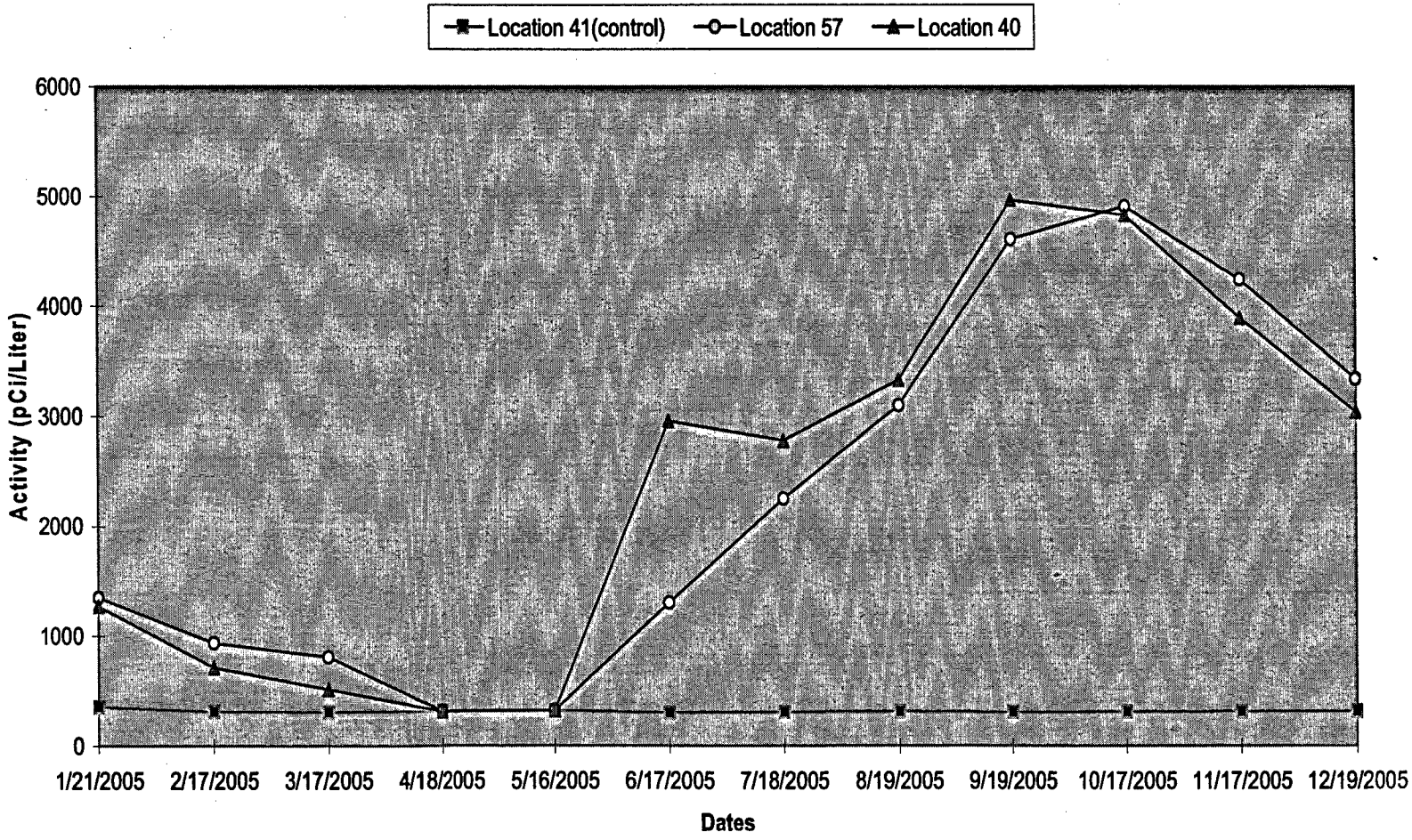
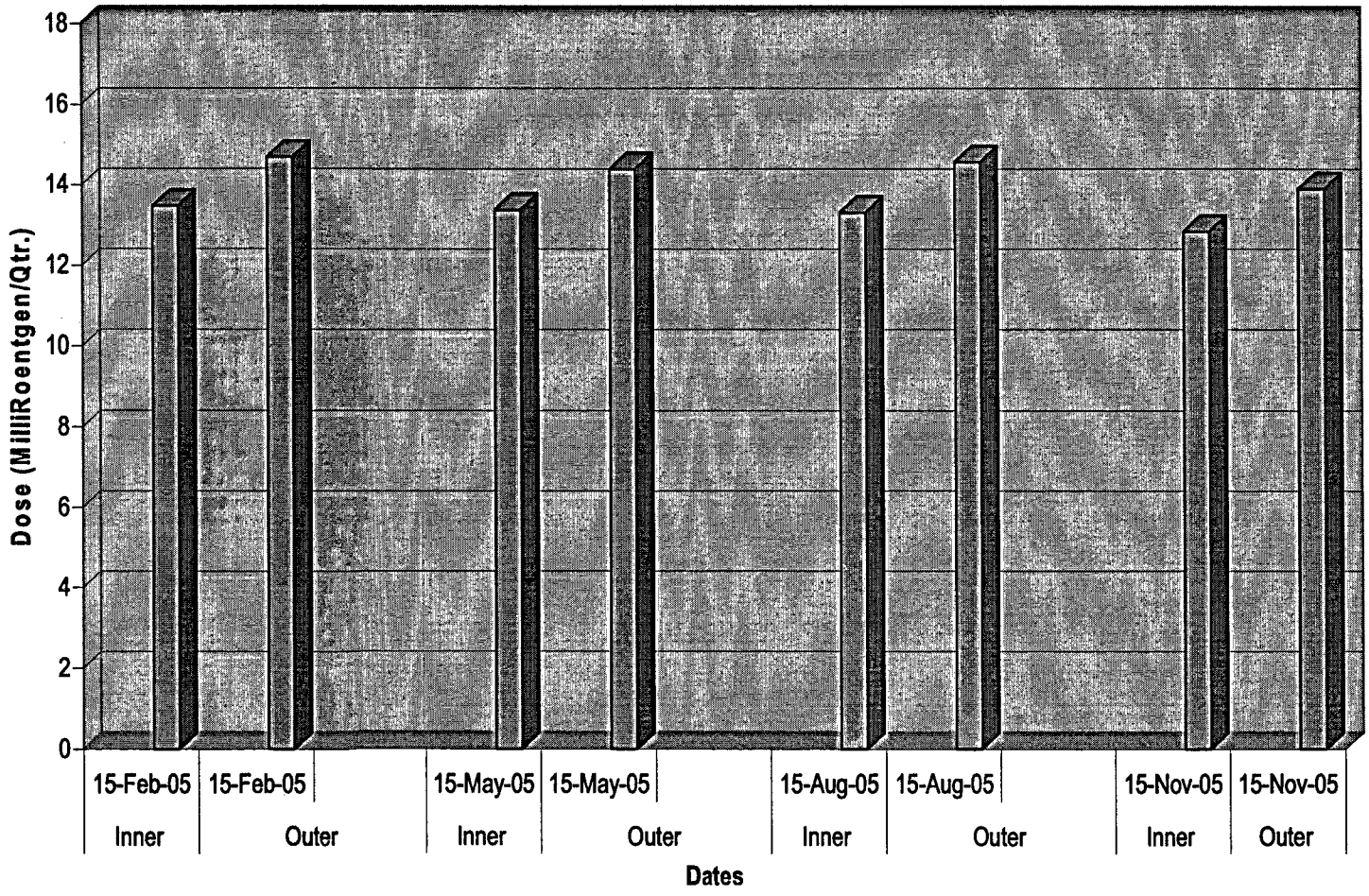


Figure 12 For HBRSEP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)
Location 1
Location 61
0.035
0.030
0.025
0.020
0.015
Activity
Jan 2005
Apr
Jul
Oct
Jan 2006
Date

**Figure 13 RNP 2005**
**Surface Water Tritium**



## Figure 14 RNP 2005 TLD Averages for Inner and Outer Ring Locations



# REPORT DATA FOR HBRSEP (RNP)

**TLD Report**

- 8 pages

**Analysis Report**

- 44 pages

**Gamma Isotopic Report**

- 48 pages

# 2005 HBRSEP (RNP)

## Radiological Environmental Monitoring
## TLD Report

### Comments

- TLDs # 61 and 65 were added to the program Second Quarter of 2005
- All RNP Environmental TLDs were present in 2005, except for the following TLD:
    - TLD # 36 Third Quarter of 2005

# *RNP Radiological Environmental Monitoring TLD Report*

*Dose: mR/std. qtr.*

| *TLD* | *TLD Location Description* | *Sample Date* | *Dose* | *2 Sigma Error* |
|---|---|---|---|---|
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/15/2005 | 13.3 | 1.8 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/15/2005 | 13 | 2.6 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/15/2005 | 12.4 | 1.6 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/15/2005 | 12.1 | 0.8 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/15/2005 | 13.1 | 1.6 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/15/2005 | 11.8 | 2.7 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/15/2005 | 12.6 | 1.3 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/15/2005 | 11.2 | 1 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/15/2005 | 15.2 | 2 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/15/2005 | 14 | 2.9 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/15/2005 | 14.8 | 1.7 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/15/2005 | 13.3 | 0.9 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/15/2005 | 12.1 | 1.6 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/15/2005 | 11 | 2.6 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/15/2005 | 9.4 | 1.5 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/15/2005 | 10.1 | 1.2 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA | 2/15/2005 | 15.9 | 1.6 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA | 5/15/2005 | 13.1 | 2.7 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA | 8/15/2005 | 15.2 | 1.5 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSONS LA | 11/15/2005 | 12.7 | 1.7 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/15/2005 | 13.2 | 1.9 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/15/2005 | 13.2 | 2.5 |

*Dose: mR/std. qtr.*

| TLD | TLD Location Description | Sample Date | Dose | 2 Sigma Error |
|---|---|---|---|---|
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/15/2005 | 12.4 | 1.3 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/15/2005 | 12.6 | 1 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE | 2/15/2005 | 14.3 | 2 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE | 5/15/2005 | 12 | 2.6 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE | 8/15/2005 | 13.6 | 1.9 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVILLE | 11/15/2005 | 11.7 | 1 |
| 8 | 0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY | 2/15/2005 | 10.9 | 2.2 |
| 8 | 0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY | 5/15/2005 | 10.2 | 2.6 |
| 8 | 0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY | 8/15/2005 | 10.6 | 1.8 |
| 8 | 0.8 MI SSE - TRANSMISSION RIGHT-OF-WAY | 11/15/2005 | 9.7 | 1.2 |
| 9 | 1.0 MI S - TRANSMISSION RIGHT-OF-WAY | 2/15/2005 | 11.8 | 1.8 |
| 9 | 1.0 MI S - TRANSMISSION RIGHT-OF-WAY | 5/15/2005 | 10.7 | 2.5 |
| 9 | 1.0 MI S - TRANSMISSION RIGHT-OF-WAY | 8/15/2005 | 11.1 | 1.5 |
| 9 | 1.0 MI S - TRANSMISSION RIGHT-OF-WAY | 11/15/2005 | 10.3 | 0.8 |
| 10 | 1.0 MI WSW - CLYDE CHURCH OF GOD | 2/15/2005 | 12.6 | 1.7 |
| 10 | 1.0 MI WSW - CLYDE CHURCH OF GOD | 5/15/2005 | 12.3 | 2.5 |
| 10 | 1.0 MI WSW - CLYDE CHURCH OF GOD | 8/15/2005 | 12.1 | 1.7 |
| 10 | 1.0 MI WSW - CLYDE CHURCH OF GOD | 11/15/2005 | 12.1 | 1.5 |
| 11 | 1.0 MI SW - OLD CAMDEN RD | 2/15/2005 | 10.3 | 1.8 |
| 11 | 1.0 MI SW - OLD CAMDEN RD | 5/15/2005 | 11 | 2.5 |
| 11 | 1.0 MI SW - OLD CAMDEN RD | 8/15/2005 | 10 | 1.4 |
| 11 | 1.0 MI SW - OLD CAMDEN RD | 11/15/2005 | 10.1 | 1.3 |
| 12 | 1.2 MI SSW-OFF OF OLD CAMDEN RD | 2/15/2005 | 14.1 | 1.8 |
| 12 | 1.2 MI SSW-OFF OF OLD CAMDEN RD | 5/15/2005 | 15.3 | 2.5 |

*Dose: mR/std. qtr.*

| TLD | TLD Location Description | Sample Date | Dose | 2 Sigma Error |
|---|---|---|---|---|
| 12 | 1.2 MI SSW-OFF OF OLD CAMDEN RD | 8/15/2005 | 14.5 | 1.7 |
| 12 | 1.2 MI SSW-OFF OF OLD CAMDEN RD | 11/15/2005 | 13.6 | 1.1 |
| 13 | 0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS | 2/15/2005 | 13.3 | 2.8 |
| 13 | 0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS | 5/15/2005 | 12.2 | 2.7 |
| 13 | 0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS | 8/15/2005 | 12.9 | 1.3 |
| 13 | 0.7 MI W- CORNER OF SALUDA AND SAMPIT RDS | 11/15/2005 | 11.7 | 0.7 |
| 14 | 0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE | 2/15/2005 | 15.1 | 1.8 |
| 14 | 0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE | 5/15/2005 | 13.9 | 2.7 |
| 14 | 0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE | 8/15/2005 | 14.5 | 1.5 |
| 14 | 0.8 MI WNW - FIRST BAPTIST CHURCH OF PINE RIDGE | 11/15/2005 | 13.5 | 0.9 |
| 15 | 0.7 MI NW - TRANSMISSION RIGHT-OF-WAY | 2/15/2005 | 11.7 | 1.9 |
| 15 | 0.7 MI NW - TRANSMISSION RIGHT-OF-WAY | 5/15/2005 | 12.7 | 2.7 |
| 15 | 0.7 MI NW - TRANSMISSION RIGHT-OF-WAY | 8/15/2005 | 11.1 | 1.3 |
| 15 | 0.7 MI NW - TRANSMISSION RIGHT-OF-WAY | 11/15/2005 | 12.4 | 0.7 |
| 16 | 1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI | 2/15/2005 | 12.6 | 2 |
| 16 | 1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI | 5/15/2005 | 12.4 | 2.6 |
| 16 | 1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI | 8/15/2005 | 12.7 | 1.6 |
| 16 | 1.0 MI NNW - SOUTH SIDE OF DARLINGTON CO. IC TURBI | 11/15/2005 | 12.4 | 0.7 |
| 17 | 1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU | 2/15/2005 | 14.6 | 1.9 |
| 17 | 1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU | 5/15/2005 | 15.1 | 2.5 |
| 17 | 1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU | 8/15/2005 | 14.3 | 1.3 |
| 17 | 1.2 MI N - DARLINGTON CO. PLANT EMERGENCY FIRE PU | 11/15/2005 | 14.3 | 1.1 |
| 18 | 0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE | 2/15/2005 | 17.9 | 3.6 |
| 18 | 0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE | 5/15/2005 | 18 | 2.7 |

*Dose: mR/std. qtr.*

| TLD | TLD Location Description | Sample Date | Dose | 2 Sigma Error |
|---|---|---|---|---|
| 18 | 0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE | 8/15/2005 | 17.4 | 1.8 |
| 18 | 0.7 MI SE - NEAR OLD BLACK CREEK RR TRESTLE | 11/15/2005 | 17.8 | 1.7 |
| 19 | 1.0 MI E - OLD CAMDEN RD (#S-16-23) | 2/15/2005 | 13.1 | 2.5 |
| 19 | 1.0 MI E - OLD CAMDEN RD (#S-16-23) | 5/15/2005 | 12.4 | 2.5 |
| 19 | 1.0 MI E - OLD CAMDEN RD (#S-16-23) | 8/15/2005 | 12.6 | 1.5 |
| 19 | 1.0 MI E - OLD CAMDEN RD (#S-16-23) | 11/15/2005 | 13 | 1.2 |
| 20 | 1.0 MI ENE - NEW MARKET RD (#S-16-39) | 2/15/2005 | 15.3 | 1.9 |
| 20 | 1.0 MI ENE - NEW MARKET RD (#S-16-39) | 5/15/2005 | 13.4 | 2.7 |
| 20 | 1.0 MI ENE - NEW MARKET RD (#S-16-39) | 8/15/2005 | 14.6 | 2 |
| 20 | 1.0 MI ENE - NEW MARKET RD (#S-16-39) | 11/15/2005 | 12.5 | 1.1 |
| 21 | 1.4 MI NE - NEW MARKET RD (#S-16-39) | 2/15/2005 | 14.7 | 2.5 |
| 21 | 1.4 MI NE - NEW MARKET RD (#S-16-39) | 5/15/2005 | 12.2 | 2.5 |
| 21 | 1.4 MI NE - NEW MARKET RD (#S-16-39) | 8/15/2005 | 13.8 | 1.6 |
| 21 | 1.4 MI NE - NEW MARKET RD (#S-16-39) | 11/15/2005 | 11.3 | 0.8 |
| 22 | 1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA | 2/15/2005 | 11.1 | 1.9 |
| 22 | 1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA | 5/15/2005 | 12.3 | 2.5 |
| 22 | 1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA | 8/15/2005 | 11.4 | 1.4 |
| 22 | 1.7 MI NNE - SHADY REST ENTRANCE OFF OF CLOVERDA | 11/15/2005 | 11.6 | 0.8 |
| 23 | 1.0 MI ESE - NEW MARKET RD (#S-16-39) | 2/15/2005 | 14.7 | 1.7 |
| 23 | 1.0 MI ESE - NEW MARKET RD (#S-16-39) | 5/15/2005 | 15.2 | 2.7 |
| 23 | 1.0 MI ESE - NEW MARKET RD (#S-16-39) | 8/15/2005 | 14.3 | 1.6 |
| 23 | 1.0 MI ESE - NEW MARKET RD (#S-16-39) | 11/15/2005 | 14.6 | 1.1 |
| 24 | 4.6 MI NW - SOWELL RD (#S-13-711) | 2/15/2005 | 15.8 | 2.1 |
| 24 | 4.6 MI NW - SOWELL RD (#S-13-711) | 5/15/2005 | 15.4 | 2.6 |

*Dose: mR/std. qtr.*

| TLD | TLD Location Description | Sample Date | Dose | 2 Sigma Error |
|---|---|---|---|---|
| 24 | 4.6 MI NW - SOWELL RD (#S-13-711) | 8/15/2005 | 15.7 | 2.1 |
| 24 | 4.6 MI NW - SOWELL RD (#S-13-711) | 11/15/2005 | 15.5 | 1.2 |
| 25 | 4.0 MI NNW - LAKE ROBINSON RD (#S-13-346) | 2/15/2005 | 15.8 | 2.2 |
| 25 | 4.0 MI NNW - LAKE ROBINSON RD (#S-13-346) | 5/15/2005 | 13.7 | 3 |
| 25 | 4.0 MI NNW - LAKE ROBINSON RD (#S-13-346) | 8/15/2005 | 15.3 | 2 |
| 25 | 4.0 MI NNW - LAKE ROBINSON RD (#S-13-346) | 11/15/2005 | 13.2 | 0.7 |
| 26 | 5.0 MI N - LAKE ROBINSON RD (#S-13-346) | 2/15/2005 | 14.4 | 2.1 |
| 26 | 5.0 MI N - LAKE ROBINSON RD (#S-13-346) | 5/15/2005 | 14.1 | 2.9 |
| 26 | 5.0 MI N - LAKE ROBINSON RD (#S-13-346) | 8/15/2005 | 13.9 | 1.3 |
| 26 | 5.0 MI N - LAKE ROBINSON RD (#S-13-346) | 11/15/2005 | 13.7 | 1.6 |
| 27 | 5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763) | 2/15/2005 | 11.8 | 1.7 |
| 27 | 5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763) | 5/15/2005 | 11.3 | 2.5 |
| 27 | 5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763) | 8/15/2005 | 11.3 | 1.3 |
| 27 | 5.4 MI NNE - PROSPECT CHURCH RD (#S-13-763) | 11/15/2005 | 11.1 | 1.7 |
| 28 | 4.3 MI NE - NEW MARKET RD (#S-13-39) | 2/15/2005 | 15.4 | 2 |
| 28 | 4.3 MI NE - NEW MARKET RD (#S-13-39) | 5/15/2005 | 17.7 | 2.9 |
| 28 | 4.3 MI NE - NEW MARKET RD (#S-13-39) | 8/15/2005 | 15.8 | 1.3 |
| 28 | 4.3 MI NE - NEW MARKET RD (#S-13-39) | 11/15/2005 | 16.4 | 0.8 |
| 29 | 4.0 MI ENE - RUBY RD (#S-16-20) | 2/15/2005 | 12.9 | 2.1 |
| 29 | 4.0 MI ENE - RUBY RD (#S-16-20) | 5/15/2005 | 10.1 | 2.7 |
| 29 | 4.0 MI ENE - RUBY RD (#S-16-20) | 8/15/2005 | 12.6 | 1.5 |
| 29 | 4.0 MI ENE - RUBY RD (#S-16-20) | 11/15/2005 | 10.2 | 0.9 |
| 30 | 4.4 MI E - RUBY RD (#S-16-20) | 2/15/2005 | 12.7 | 2.4 |
| 30 | 4.4 MI E - RUBY RD (#S-16-20) | 5/15/2005 | 14.1 | 2.5 |

*Dose: mR/std. qtr.*

| TLD | TLD Location Description | Sample Date | Dose | 2 Sigma Error |
|---|---|---|---|---|
| 30 | 4.4 MI E - RUBY RD (#S-16-20) | 8/15/2005 | 13 | 1.5 |
| 30 | 4.4 MI E - RUBY RD (#S-16-20) | 11/15/2005 | 13.2 | 0.7 |
| 31 | 4.6 MI ESE - ON LAKESHORE DRIVE | 2/15/2005 | 15.6 | 1.8 |
| 31 | 4.6 MI ESE - ON LAKESHORE DRIVE | 5/15/2005 | 14.2 | 2.5 |
| 31 | 4.6 MI ESE - ON LAKESHORE DRIVE | 8/15/2005 | 16 | 1.6 |
| 31 | 4.6 MI ESE - ON LAKESHORE DRIVE | 11/15/2005 | 13.5 | 1.4 |
| 32 | 4.0 MI SE - TRANSMISSION RIGHT-OF-WAY | 2/15/2005 | 12.8 | 2 |
| 32 | 4.0 MI SE - TRANSMISSION RIGHT-OF-WAY | 5/15/2005 | 12.5 | 2.6 |
| 32 | 4.0 MI SE - TRANSMISSION RIGHT-OF-WAY | 8/15/2005 | 12.7 | 1.6 |
| 32 | 4.0 MI SE - TRANSMISSION RIGHT-OF-WAY | 11/15/2005 | 12 | 2.3 |
| 33 | 4.5 MI SSE- ON BAY RD (#S-16-493) | 2/15/2005 | 13.6 | 1.8 |
| 33 | 4.5 MI SSE- ON BAY RD (#S-16-493) | 5/15/2005 | 14 | 2.5 |
| 33 | 4.5 MI SSE- ON BAY RD (#S-16-493) | 8/15/2005 | 13 | 1.4 |
| 33 | 4.5 MI SSE- ON BAY RD (#S-16-493) | 11/15/2005 | 13.8 | 1 |
| 34 | 4.7 MI S - ON KELLYBELL RD (#S-16-772) | 2/15/2005 | 10.1 | 1.6 |
| 34 | 4.7 MI S - ON KELLYBELL RD (#S-16-772) | 5/15/2005 | 10 | 2.6 |
| 34 | 4.7 MI S - ON KELLYBELL RD (#S-16-772) | 8/15/2005 | 10.4 | 1.6 |
| 34 | 4.7 MI S - ON KELLYBELL RD (#S-16-772) | 11/15/2005 | 9.5 | 1.2 |
| 35 | 4.5 MI SSW - KELLY BRIDGE RD (#S-31-51) | 2/15/2005 | 18.4 | 1.9 |
| 35 | 4.5 MI SSW - KELLY BRIDGE RD (#S-31-51) | 5/15/2005 | 19.9 | 3 |
| 35 | 4.5 MI SSW - KELLY BRIDGE RD (#S-31-51) | 8/15/2005 | 20.7 | 1.8 |
| 35 | 4.5 MI SSW - KELLY BRIDGE RD (#S-31-51) | 11/15/2005 | 19.1 | 1.5 |
| 36 | 5.0 MI SW - ON KINGSTON DRIVE | 2/15/2005 | 18.6 | 2.3 |
| 36 | 5.0 MI SW - ON KINGSTON DRIVE | 5/15/2005 | 19.3 | 2.5 |

*Dose: mR/std. qtr.*

| TLD | TLD Location Description | Sample Date | Dose | 2 Sigma Error |
|---|---|---|---|---|
| 36 | 5.0 MI SW - ON KINGSTON DRIVE | 11/15/2005 | 18.5 | 1.9 |
| 37 | 5.0 MI WSW - PINE CONE RD | 2/15/2005 | 20.6 | 4.2 |
| 37 | 5.0 MI WSW - PINE CONE RD | 5/15/2005 | 19.9 | 2.9 |
| 37 | 5.0 MI WSW - PINE CONE RD | 8/15/2005 | 21.1 | 1.3 |
| 37 | 5.0 MI WSW - PINE CONE RD | 11/15/2005 | 19.5 | 3 |
| 38 | 4.9 MI W - AT UNION CHURCH RD | 2/15/2005 | 14.7 | 2.5 |
| 38 | 4.9 MI W - AT UNION CHURCH RD | 5/15/2005 | 14.9 | 2.5 |
| 38 | 4.9 MI W - AT UNION CHURCH RD | 8/15/2005 | 14.1 | 1.6 |
| 38 | 4.9 MI W - AT UNION CHURCH RD | 11/15/2005 | 13.7 | 0.7 |
| 39 | 5.1 MI WNW - KING'S POND RD | 2/15/2005 | 14.4 | 1.7 |
| 39 | 5.1 MI WNW - KING'S POND RD | 5/15/2005 | 14.6 | 2.8 |
| 39 | 5.1 MI WNW - KING'S POND RD | 8/15/2005 | 13.7 | 1.7 |
| 39 | 5.1 MI WNW - KING'S POND RD | 11/15/2005 | 14.1 | 0.9 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/15/2005 | 14.7 | 1.6 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/15/2005 | 14.8 | 2.6 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/15/2005 | 14.1 | 1.5 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/15/2005 | 13.8 | 0.9 |
| 56 | 0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI | 2/15/2005 | 12.3 | 2.1 |
| 56 | 0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI | 5/15/2005 | 11.6 | 2.6 |
| 56 | 0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI | 8/15/2005 | 14 | 1.3 |
| 56 | 0.4 MI NNW - NORTH OF THE CENTER OF THE 7P-ISFSI | 11/15/2005 | 11.8 | 0.9 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS | 5/15/2005 | 17.4 | 2.5 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS | 8/15/2005 | 17.4 | 1.6 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRACKS | 11/15/2005 | 17.4 | 1.3 |

*Dose: mR/std. qtr.*

| *TLD* | *TLD Location Description* | *Sample Date* | *Dose* | *2 Sigma Error* |
|---|---|---|---|---|
| 65 | NORTHWEST OF THE 24P-ISFSI 0.30 WNW | 5/15/2005 | 15.7 | 2.6 |
| 65 | NORTHWEST OF THE 24P-ISFSI 0.30 WNW | 8/15/2005 | 16.1 | 1.6 |
| 65 | NORTHWEST OF THE 24P-ISFSI 0.30 WNW | 11/15/2005 | 15.7 | 1.4 |

# 2005 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*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/4/2005 | 631.6 | 3.73E-01 | 2.83E-02 | 2.29E-03 | 1.59E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/10/2005 | 499.1 | 3.73E-01 | 1.55E-02 | 2.17E-03 | 2.15E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/17/2005 | 575 | 3.73E-01 | 2.76E-02 | 2.39E-03 | 1.70E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/24/2005 | 572.5 | 3.73E-01 | 2.93E-02 | 2.40E-03 | 1.51E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/1/2005 | 576.9 | 3.73E-01 | 2.66E-02 | 2.31E-03 | 1.56E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/7/2005 | 475.8 | 3.73E-01 | 2.53E-02 | 2.62E-03 | 2.16E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/14/2005 | 563.1 | 3.73E-01 | 2.39E-02 | 2.29E-03 | 1.75E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/20/2005 | 464 | 3.73E-01 | 3.43E-02 | 2.93E-03 | 2.00E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/28/2005 | 645.4 | 3.73E-01 | 1.77E-02 | 1.84E-03 | 1.42E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/7/2005 | 460.7 | 3.73E-01 | 2.51E-02 | 2.64E-03 | 2.14E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/14/2005 | 460.9 | 3.73E-01 | 2.15E-02 | 2.50E-03 | 2.17E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/21/2005 | 462.5 | 3.73E-01 | 2.72E-02 | 2.67E-03 | 1.99E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/28/2005 | 471.8 | 3.62E-01 | 1.95E-02 | 2.40E-03 | 2.10E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/4/2005 | 477 | 3.73E-01 | 1.97E-02 | 2.37E-03 | 2.11E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/10/2005 | 409.9 | 3.73E-01 | 2.24E-02 | 2.75E-03 | 2.47E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/17/2005 | 487.8 | 3.73E-01 | 1.80E-02 | 2.23E-03 | 1.96E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/24/2005 | 478.2 | 3.73E-01 | 3.02E-02 | 2.76E-03 | 2.04E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/2/2005 | 584.2 | 3.73E-01 | 2.68E-02 | 2.33E-03 | 1.66E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/9/2005 | 515 | 3.73E-01 | 3.10E-02 | 2.69E-03 | 1.97E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 531.9 | 3.73E-01 | 2.87E-02 | 2.56E-03 | 1.92E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/23/2005 | 528.9 | 3.73E-01 | 2.02E-02 | 2.25E-03 | 1.93E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/31/2005 | 595.5 | 3.73E-01 | 1.89E-02 | 2.01E-03 | 1.63E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/6/2005 | 451.9 | 3.73E-01 | 1.80E-02 | 2.26E-03 | 1.85E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/13/2005 | 538.3 | 3.73E-01 | 1.89E-02 | 2.10E-03 | 1.66E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/20/2005 | 524.4 | 3.73E-01 | 2.00E-02 | 2.20E-03 | 1.77E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/27/2005 | 529.1 | 3.73E-01 | 2.48E-02 | 2.42E-03 | 1.89E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/4/2005 | 527.7 | 3.73E-01 | 1.51E-02 | 1.97E-03 | 1.75E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/11/2005 | 534.6 | 3.73E-01 | 2.01E-02 | 2.16E-03 | 1.68E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/17/2005 | 448.8 | 3.73E-01 | 1.74E-02 | 2.32E-03 | 2.10E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/25/2005 | 604.5 | 3.73E-01 | 1.81E-02 | 1.94E-03 | 1.56E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/1/2005 | 530.8 | 3.73E-01 | 3.38E-02 | 2.73E-03 | 1.88E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/8/2005 | 517.7 | 3.73E-01 | 2.90E-02 | 2.62E-03 | 2.00E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/15/2005 | 519.8 | 3.73E-01 | 1.71E-02 | 2.10E-03 | 1.81E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/22/2005 | 525 | 3.73E-01 | 2.44E-02 | 2.37E-03 | 1.75E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/29/2005 | 527.5 | 3.73E-01 | 2.89E-02 | 2.54E-03 | 1.77E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/6/2005 | 594.3 | 3.73E-01 | 2.64E-02 | 2.28E-03 | 1.57E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/12/2005 | 449.1 | 3.73E-01 | 3.01E-02 | 2.79E-03 | 1.89E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/19/2005 | 531.8 | 3.73E-01 | 3.12E-02 | 2.61E-03 | 1.78E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/26/2005 | 508.7 | 3.73E-01 | 2.97E-02 | 2.61E-03 | 1.80E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/3/2005 | 526.3 | 3.73E-01 | 2.76E-02 | 2.45E-03 | 1.60E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/10/2005 | 523.8 | 3.73E-01 | 1.22E-02 | 1.91E-03 | 1.95E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/17/2005 | 514.2 | 3.73E-01 | 2.82E-02 | 2.52E-03 | 1.68E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/24/2005 | 518.7 | 3.73E-01 | 3.82E-02 | 2.89E-03 | 1.82E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/31/2005 | 507.4 | 3.73E-01 | 2.27E-02 | 2.36E-03 | 1.86E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/7/2005 | 510.5 | 3.73E-01 | 3.34E-02 | 2.76E-03 | 1.87E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/14/2005 | 512.4 | 3.73E-01 | 3.39E-02 | 2.75E-03 | 1.77E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/20/2005 | 437.7 | 3.73E-01 | 2.27E-02 | 2.66E-03 | 2.36E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/28/2005 | 570.6 | 3.73E-01 | 2.15E-02 | 2.22E-03 | 1.87E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/5/2005 | 508.6 | 3.88E-01 | 2.99E-02 | 2.59E-03 | 1.84E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/12/2005 | 489.3 | 3.88E-01 | 2.70E-02 | 2.53E-03 | 1.86E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/19/2005 | 479.5 | 3.88E-01 | 2.55E-02 | 2.49E-03 | 1.85E-03 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/26/2005 | 462.7 | 3.88E-01 | 3.81E-02 | 2.99E-03 | 1.87E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 2 | 0.2 MI S - INFORMATION CENTER | 1/4/2005 | 691.4 | 3.73E-01 | 2.84E-02 | 2.18E-03 | 1.46E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/10/2005 | 538.8 | 3.73E-01 | 1.83E-02 | 2.18E-03 | 1.99E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/17/2005 | 643.5 | 3.73E-01 | 2.70E-02 | 2.21E-03 | 1.51E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/24/2005 | 624.4 | 3.73E-01 | 3.21E-02 | 2.38E-03 | 1.38E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/1/2005 | 735.1 | 3.73E-01 | 2.36E-02 | 1.91E-03 | 1.22E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/7/2005 | 555.1 | 3.73E-01 | 2.47E-02 | 2.36E-03 | 1.85E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/14/2005 | 695.5 | 3.73E-01 | 2.23E-02 | 1.96E-03 | 1.42E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/20/2005 | 497.5 | 3.73E-01 | 3.51E-02 | 2.84E-03 | 1.87E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/28/2005 | 687.5 | 3.73E-01 | 2.34E-02 | 1.98E-03 | 1.33E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/7/2005 | 469.1 | 3.73E-01 | 3.65E-02 | 3.02E-03 | 2.11E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/14/2005 | 471.9 | 3.73E-01 | 2.31E-02 | 2.53E-03 | 2.12E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/21/2005 | 462.6 | 3.73E-01 | 3.18E-02 | 2.85E-03 | 1.99E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/28/2005 | 474.8 | 3.62E-01 | 2.03E-02 | 2.42E-03 | 2.09E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/4/2005 | 475.5 | 3.73E-01 | 2.14E-02 | 2.45E-03 | 2.12E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/10/2005 | 410.8 | 3.73E-01 | 2.86E-02 | 2.99E-03 | 2.47E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/17/2005 | 473.4 | 3.73E-01 | 2.34E-02 | 2.51E-03 | 2.02E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/24/2005 | 493.8 | 3.73E-01 | 3.01E-02 | 2.71E-03 | 1.97E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/2/2005 | 643.7 | 3.73E-01 | 2.21E-02 | 2.04E-03 | 1.50E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/9/2005 | 550.4 | 3.73E-01 | 2.86E-02 | 2.50E-03 | 1.84E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/16/2005 | 568.5 | 3.73E-01 | 3.05E-02 | 2.52E-03 | 1.79E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/23/2005 | 562.9 | 3.73E-01 | 2.34E-02 | 2.29E-03 | 1.81E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/31/2005 | 640.6 | 3.73E-01 | 1.98E-02 | 1.96E-03 | 1.51E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/6/2005 | 478.3 | 3.73E-01 | 1.61E-02 | 2.09E-03 | 1.75E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/13/2005 | 570.6 | 3.73E-01 | 1.73E-02 | 1.96E-03 | 1.57E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/20/2005 | 562.6 | 3.73E-01 | 2.03E-02 | 2.12E-03 | 1.65E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/27/2005 | 566.2 | 3.73E-01 | 2.30E-02 | 2.25E-03 | 1.77E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 2 | 0.2 MI S - INFORMATION CENTER | 7/4/2005 | 571.7 | 3.73E-01 | 1.44E-02 | 1.84E-03 | 1.61E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/11/2005 | 568.4 | 3.73E-01 | 1.78E-02 | 1.99E-03 | 1.58E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/17/2005 | 489.8 | 3.73E-01 | 1.59E-02 | 2.12E-03 | 1.92E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/25/2005 | 653.6 | 3.73E-01 | 1.66E-02 | 1.79E-03 | 1.44E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/1/2005 | 572.5 | 3.73E-01 | 3.05E-02 | 2.50E-03 | 1.75E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/8/2005 | 572.2 | 3.73E-01 | 2.74E-02 | 2.41E-03 | 1.81E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/15/2005 | 565.5 | 3.73E-01 | 1.46E-02 | 1.86E-03 | 1.65E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/22/2005 | 574.8 | 3.73E-01 | 2.25E-02 | 2.17E-03 | 1.60E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/29/2005 | 568 | 3.73E-01 | 2.75E-02 | 2.38E-03 | 1.65E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/6/2005 | 644.8 | 3.73E-01 | 2.36E-02 | 2.07E-03 | 1.45E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/12/2005 | 481.8 | 3.73E-01 | 2.82E-02 | 2.61E-03 | 1.76E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/19/2005 | 575.9 | 3.73E-01 | 2.75E-02 | 2.37E-03 | 1.65E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/26/2005 | 554.9 | 3.73E-01 | 3.13E-02 | 2.54E-03 | 1.65E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/3/2005 | 568 | 3.73E-01 | 2.72E-02 | 2.33E-03 | 1.48E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/10/2005 | 564.3 | 3.73E-01 | 1.43E-02 | 1.91E-03 | 1.81E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/17/2005 | 547.3 | 3.73E-01 | 2.22E-02 | 2.20E-03 | 1.58E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/24/2005 | 552.8 | 3.73E-01 | 3.58E-02 | 2.71E-03 | 1.70E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/31/2005 | 547 | 3.73E-01 | 2.11E-02 | 2.19E-03 | 1.72E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/7/2005 | 555.2 | 3.73E-01 | 3.27E-02 | 2.60E-03 | 1.72E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/14/2005 | 554.1 | 3.73E-01 | 2.89E-02 | 2.53E-03 | 1.93E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/20/2005 | 469.4 | 3.73E-01 | 2.17E-02 | 2.50E-03 | 2.20E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/28/2005 | 604.8 | 3.73E-01 | 2.34E-02 | 2.21E-03 | 1.77E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/5/2005 | 551.5 | 3.88E-01 | 2.61E-02 | 2.34E-03 | 1.70E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/12/2005 | 543.6 | 3.88E-01 | 2.91E-02 | 2.45E-03 | 1.68E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/19/2005 | 460.4 | 3.88E-01 | 2.52E-02 | 2.54E-03 | 1.92E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/26/2005 | 529.4 | 3.88E-01 | 3.74E-02 | 2.75E-03 | 1.64E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/4/2005 | 950.8 | 3.73E-01 | 2.23E-02 | 1.64E-03 | 1.06E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/10/2005 | 758.1 | 3.73E-01 | 1.26E-02 | 1.53E-03 | 1.42E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/17/2005 | 886.9 | 3.73E-01 | 1.76E-02 | 1.54E-03 | 1.10E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/24/2005 | 827.5 | 3.73E-01 | 2.13E-02 | 1.70E-03 | 1.04E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/1/2005 | 1026.8 | 3.73E-01 | 1.79E-02 | 1.40E-03 | 8.77E-04 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/7/2005 | 814.9 | 3.73E-01 | 1.80E-02 | 1.65E-03 | 1.26E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/14/2005 | 937.5 | 3.73E-01 | 1.61E-02 | 1.44E-03 | 1.05E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/20/2005 | 661.4 | 3.73E-01 | 5.37E-03 | 1.23E-03 | 1.40E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/28/2005 | 896.7 | 3.73E-01 | 1.68E-02 | 1.48E-03 | 1.02E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/7/2005 | 597.8 | 3.73E-01 | 2.73E-02 | 2.33E-03 | 1.65E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/14/2005 | 589.4 | 3.79E-01 | 1.72E-02 | 1.95E-03 | 1.67E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/21/2005 | 596.5 | 3.73E-01 | 2.39E-02 | 2.18E-03 | 1.54E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/28/2005 | 588.4 | 3.62E-01 | 1.45E-02 | 1.87E-03 | 1.68E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/4/2005 | 597.3 | 3.73E-01 | 1.34E-02 | 1.79E-03 | 1.69E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/10/2005 | 507.4 | 3.73E-01 | 1.79E-02 | 2.21E-03 | 2.00E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/17/2005 | 605.1 | 3.73E-01 | 1.77E-02 | 1.94E-03 | 1.58E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/24/2005 | 595.4 | 3.73E-01 | 2.29E-02 | 2.17E-03 | 1.64E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/2/2005 | 554.2 | 3.73E-01 | 2.43E-02 | 2.32E-03 | 1.75E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/9/2005 | 478.3 | 3.73E-01 | 2.94E-02 | 2.76E-03 | 2.12E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/16/2005 | 479.3 | 3.73E-01 | 3.01E-02 | 2.78E-03 | 2.13E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/23/2005 | 478.3 | 3.73E-01 | 2.38E-02 | 2.54E-03 | 2.13E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/31/2005 | 542.9 | 3.73E-01 | 1.94E-02 | 2.15E-03 | 1.78E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/6/2005 | 412.5 | 3.73E-01 | 1.67E-02 | 2.33E-03 | 2.02E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/13/2005 | 483.6 | 3.73E-01 | 1.98E-02 | 2.28E-03 | 1.85E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/20/2005 | 467.1 | 3.73E-01 | 2.20E-02 | 2.45E-03 | 1.99E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/27/2005 | 489.7 | 3.73E-01 | 2.38E-02 | 2.50E-03 | 2.04E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/4/2005 | 495.8 | 3.73E-01 | 1.47E-02 | 2.03E-03 | 1.86E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/11/2005 | 497.6 | 3.73E-01 | 1.86E-02 | 2.19E-03 | 1.81E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/17/2005 | 424.3 | 3.73E-01 | 1.59E-02 | 2.33E-03 | 2.22E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/25/2005 | 715.8 | 3.73E-01 | 1.77E-02 | 1.74E-03 | 1.32E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/1/2005 | 629 | 3.73E-01 | 3.15E-02 | 2.40E-03 | 1.59E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/8/2005 | 629.2 | 3.73E-01 | 2.87E-02 | 2.32E-03 | 1.65E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/15/2005 | 626.1 | 3.73E-01 | 1.61E-02 | 1.82E-03 | 1.50E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/22/2005 | 634.5 | 3.73E-01 | 2.26E-02 | 2.06E-03 | 1.45E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/29/2005 | 633.6 | 3.73E-01 | 2.36E-02 | 2.10E-03 | 1.48E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/6/2005 | 600.6 | 3.73E-01 | 2.56E-02 | 2.24E-03 | 1.56E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/12/2005 | 453.2 | 3.73E-01 | 2.90E-02 | 2.73E-03 | 1.88E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/19/2005 | 537.3 | 3.73E-01 | 2.92E-02 | 2.53E-03 | 1.77E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/26/2005 | 518.6 | 3.73E-01 | 3.10E-02 | 2.63E-03 | 1.76E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/3/2005 | 535.8 | 3.73E-01 | 2.65E-02 | 2.38E-03 | 1.57E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/10/2005 | 535.7 | 3.73E-01 | 1.24E-02 | 1.89E-03 | 1.90E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/17/2005 | 524.2 | 3.73E-01 | 2.18E-02 | 2.24E-03 | 1.65E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/24/2005 | 532.2 | 3.73E-01 | 3.83E-02 | 2.85E-03 | 1.77E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/31/2005 | 523.1 | 3.73E-01 | 2.16E-02 | 2.28E-03 | 1.80E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/7/2005 | 527.8 | 3.73E-01 | 3.23E-02 | 2.67E-03 | 1.81E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/14/2005 | 530.2 | 3.73E-01 | 3.33E-02 | 2.69E-03 | 1.79E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/20/2005 | 452.6 | 3.73E-01 | 2.17E-02 | 2.56E-03 | 2.28E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/28/2005 | 597 | 3.73E-01 | 2.11E-02 | 2.14E-03 | 1.79E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/5/2005 | 528.8 | 3.88E-01 | 2.62E-02 | 2.40E-03 | 1.77E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/12/2005 | 528.2 | 3.88E-01 | 2.66E-02 | 2.40E-03 | 1.73E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/19/2005 | 516.8 | 3.88E-01 | 2.60E-02 | 2.40E-03 | 1.71E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/26/2005 | 499 | 3.88E-01 | 3.74E-02 | 2.84E-03 | 1.73E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 4 | 0.4 MI ESE - SPILLWAY | 1/4/2005 | 588.4 | 3.73E-01 | 3.16E-02 | 2.50E-03 | 1.71E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/10/2005 | 439.8 | 3.73E-01 | 1.92E-02 | 2.53E-03 | 2.44E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/17/2005 | 508 | 3.73E-01 | 2.99E-02 | 2.65E-03 | 1.92E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/24/2005 | 508.4 | 3.73E-01 | 3.28E-02 | 2.70E-03 | 1.70E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/1/2005 | 585.8 | 3.73E-01 | 2.09E-02 | 2.08E-03 | 1.54E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/7/2005 | 433.9 | 3.73E-01 | 2.42E-02 | 2.73E-03 | 2.36E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/14/2005 | 500.3 | 3.73E-01 | 1.99E-02 | 2.30E-03 | 1.97E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/20/2005 | 418.7 | 3.73E-01 | 3.63E-02 | 3.19E-03 | 2.22E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/28/2005 | 644.2 | 3.73E-01 | 2.19E-02 | 2.01E-03 | 1.42E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/7/2005 | 421.6 | 3.73E-01 | 4.08E-02 | 3.37E-03 | 2.34E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/14/2005 | 423.4 | 3.73E-01 | 2.03E-02 | 2.58E-03 | 2.36E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/21/2005 | 403.7 | 3.73E-01 | 2.80E-02 | 2.94E-03 | 2.28E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/28/2005 | 400 | 3.62E-01 | 1.70E-02 | 2.55E-03 | 2.48E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/4/2005 | 408 | 3.73E-01 | 1.69E-02 | 2.50E-03 | 2.47E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/10/2005 | 405.3 | 3.73E-01 | 2.03E-02 | 2.67E-03 | 2.50E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/17/2005 | 214 | 3.73E-01 | 2.09E-02 | 4.09E-03 | 4.46E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/24/2005 | 153.5 | 3.73E-01 | 2.66E-02 | 5.62E-03 | 6.35E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/2/2005 | 583 | 3.73E-01 | 2.21E-02 | 2.16E-03 | 1.66E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/9/2005 | 496.7 | 3.73E-01 | 2.90E-02 | 2.68E-03 | 2.04E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/16/2005 | 509.7 | 3.73E-01 | 2.81E-02 | 2.61E-03 | 2.00E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/23/2005 | 558.1 | 3.73E-01 | 2.30E-02 | 2.28E-03 | 1.83E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/31/2005 | 631.4 | 3.73E-01 | 2.00E-02 | 1.98E-03 | 1.53E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/6/2005 | 471.4 | 3.73E-01 | 1.66E-02 | 2.13E-03 | 1.77E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/13/2005 | 560.2 | 3.73E-01 | 2.03E-02 | 2.11E-03 | 1.59E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/20/2005 | 549.1 | 3.73E-01 | 2.16E-02 | 2.20E-03 | 1.69E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/27/2005 | 552.3 | 3.73E-01 | 2.38E-02 | 2.32E-03 | 1.81E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 4 | 0.4 MI ESE - SPILLWAY | 7/4/2005 | 554.3 | 3.73E-01 | 1.39E-02 | 1.85E-03 | 1.66E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/11/2005 | 551.4 | 3.73E-01 | 1.61E-02 | 1.95E-03 | 1.63E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/17/2005 | 463.2 | 3.73E-01 | 1.51E-02 | 2.16E-03 | 2.03E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/25/2005 | 641.1 | 3.73E-01 | 1.54E-02 | 1.77E-03 | 1.47E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/1/2005 | 554.4 | 3.73E-01 | 3.25E-02 | 2.62E-03 | 1.80E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/8/2005 | 553.3 | 3.73E-01 | 2.86E-02 | 2.51E-03 | 1.88E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/15/2005 | 546.8 | 3.73E-01 | 1.43E-02 | 1.90E-03 | 1.72E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/22/2005 | 553 | 3.73E-01 | 2.19E-02 | 2.20E-03 | 1.67E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/29/2005 | 540.9 | 3.73E-01 | 2.56E-02 | 2.38E-03 | 1.73E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/6/2005 | 620.3 | 3.73E-01 | 2.46E-02 | 2.16E-03 | 1.51E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/12/2005 | 465.2 | 3.73E-01 | 2.64E-02 | 2.59E-03 | 1.83E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/19/2005 | 551.5 | 3.73E-01 | 2.65E-02 | 2.39E-03 | 1.72E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/26/2005 | 532.7 | 3.73E-01 | 2.95E-02 | 2.54E-03 | 1.72E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/3/2005 | 546.1 | 3.73E-01 | 2.51E-02 | 2.30E-03 | 1.54E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/10/2005 | 538.6 | 3.73E-01 | 1.04E-02 | 1.78E-03 | 1.89E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/17/2005 | 506.1 | 3.73E-01 | 2.39E-02 | 2.37E-03 | 1.71E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/24/2005 | 530.4 | 3.73E-01 | 3.52E-02 | 2.75E-03 | 1.78E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/31/2005 | 530 | 3.73E-01 | 2.11E-02 | 2.24E-03 | 1.78E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/7/2005 | 531.1 | 3.73E-01 | 3.10E-02 | 2.61E-03 | 1.80E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/14/2005 | 532.2 | 3.73E-01 | 3.32E-02 | 2.68E-03 | 1.78E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/20/2005 | 419.6 | 3.73E-01 | 2.52E-02 | 2.83E-03 | 2.46E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/28/2005 | 570.5 | 3.73E-01 | 2.15E-02 | 2.22E-03 | 1.87E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/5/2005 | 500.9 | 3.88E-01 | 2.59E-02 | 2.47E-03 | 1.87E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/12/2005 | 501.8 | 3.88E-01 | 2.70E-02 | 2.49E-03 | 1.82E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/19/2005 | 482.4 | 3.88E-01 | 2.33E-02 | 2.40E-03 | 1.84E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/26/2005 | 487.8 | 3.88E-01 | 3.55E-02 | 2.81E-03 | 1.77E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 1/4/2005 | 605.1 | 3.73E-01 | 2.98E-02 | 2.40E-03 | 1.66E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 1/10/2005 | 465.5 | 3.73E-01 | 1.67E-02 | 2.33E-03 | 2.31E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 1/17/2005 | 534.3 | 3.73E-01 | 2.41E-02 | 2.36E-03 | 1.82E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 1/24/2005 | 548.8 | 3.73E-01 | 2.78E-02 | 2.41E-03 | 1.58E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 2/1/2005 | 601.3 | 3.73E-01 | 2.51E-02 | 2.20E-03 | 1.50E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 2/7/2005 | 460 | 3.73E-01 | 2.31E-02 | 2.58E-03 | 2.23E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 2/14/2005 | 537.8 | 3.73E-01 | 2.21E-02 | 2.28E-03 | 1.84E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 2/20/2005 | 449.7 | 3.73E-01 | 8.27E-03 | 1.83E-03 | 2.06E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 2/28/2005 | 663.3 | 3.73E-01 | 2.00E-02 | 1.90E-03 | 1.38E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 3/7/2005 | 504.9 | 3.73E-01 | 3.09E-02 | 2.71E-03 | 1.96E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 3/14/2005 | 504.8 | 3.73E-01 | 2.07E-02 | 2.33E-03 | 1.98E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 3/21/2005 | 499.6 | 3.73E-01 | 2.90E-02 | 2.62E-03 | 1.84E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 3/28/2005 | 508.5 | 3.62E-01 | 1.82E-02 | 2.23E-03 | 1.95E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 4/4/2005 | 510.9 | 3.73E-01 | 1.75E-02 | 2.18E-03 | 1.97E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 4/10/2005 | 431.3 | 3.73E-01 | 2.54E-02 | 2.78E-03 | 2.35E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 4/17/2005 | 505.3 | 3.73E-01 | 1.93E-02 | 2.24E-03 | 1.89E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 4/24/2005 | 511.3 | 3.73E-01 | 2.83E-02 | 2.59E-03 | 1.91E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/2/2005 | 616.7 | 3.73E-01 | 2.11E-02 | 2.05E-03 | 1.57E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/9/2005 | 533.9 | 3.73E-01 | 2.97E-02 | 2.59E-03 | 1.90E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/16/2005 | 549.8 | 3.73E-01 | 2.90E-02 | 2.52E-03 | 1.85E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/23/2005 | 544.3 | 3.73E-01 | 2.36E-02 | 2.34E-03 | 1.87E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/31/2005 | 601.1 | 3.73E-01 | 1.87E-02 | 1.99E-03 | 1.61E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 6/6/2005 | 458.8 | 3.73E-01 | 1.55E-02 | 2.12E-03 | 1.82E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 6/13/2005 | 556.6 | 3.73E-01 | 2.00E-02 | 2.10E-03 | 1.61E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 6/20/2005 | 535.9 | 3.73E-01 | 2.14E-02 | 2.23E-03 | 1.73E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 6/27/2005 | 549.3 | 3.73E-01 | 2.30E-02 | 2.29E-03 | 1.82E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 7/4/2005 | 551 | 3.73E-01 | 1.42E-02 | 1.88E-03 | 1.67E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 7/11/2005 | 550.6 | 3.73E-01 | 1.81E-02 | 2.04E-03 | 1.64E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 7/17/2005 | 464.5 | 3.73E-01 | 1.65E-02 | 2.22E-03 | 2.03E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 7/25/2005 | 627.1 | 3.73E-01 | 1.76E-02 | 1.88E-03 | 1.50E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 8/1/2005 | 550.8 | 3.73E-01 | 3.46E-02 | 2.70E-03 | 1.82E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 8/8/2005 | 551.5 | 3.73E-01 | 2.66E-02 | 2.44E-03 | 1.88E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 8/15/2005 | 544.8 | 3.73E-01 | 1.48E-02 | 1.93E-03 | 1.73E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 8/22/2005 | 554.1 | 3.73E-01 | 2.20E-02 | 2.20E-03 | 1.66E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 8/29/2005 | 556.4 | 3.73E-01 | 2.41E-02 | 2.29E-03 | 1.68E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 9/6/2005 | 103.1 | 3.73E-01 | 2.69E-02 | 7.45E-03 | 9.07E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 9/12/2005 | 468.6 | 3.73E-01 | 2.68E-02 | 2.60E-03 | 1.81E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 9/19/2005 | 556.6 | 3.73E-01 | 2.71E-02 | 2.40E-03 | 1.70E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 9/26/2005 | 536.1 | 3.73E-01 | 2.92E-02 | 2.52E-03 | 1.71E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 10/3/2005 | 553.5 | 3.73E-01 | 2.54E-02 | 2.30E-03 | 1.52E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 10/10/2005 | 549.9 | 3.73E-01 | 1.38E-02 | 1.92E-03 | 1.85E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 10/17/2005 | 540.2 | 3.73E-01 | 2.22E-02 | 2.22E-03 | 1.60E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 10/24/2005 | 540.4 | 3.73E-01 | 3.61E-02 | 2.75E-03 | 1.74E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 10/31/2005 | 539.4 | 3.73E-01 | 1.95E-02 | 2.15E-03 | 1.75E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 11/7/2005 | 540.3 | 3.73E-01 | 3.11E-02 | 2.59E-03 | 1.77E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 11/14/2005 | 540.7 | 3.73E-01 | 3.05E-02 | 2.57E-03 | 1.75E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 11/20/2005 | 462 | 3.73E-01 | 2.02E-02 | 2.46E-03 | 2.23E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 11/28/2005 | 607.6 | 3.73E-01 | 2.22E-02 | 2.16E-03 | 1.76E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 12/5/2005 | 535.3 | 3.88E-01 | 2.59E-02 | 2.37E-03 | 1.75E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 12/12/2005 | 537.9 | 3.88E-01 | 2.71E-02 | 2.40E-03 | 1.69E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 12/19/2005 | 524.1 | 3.88E-01 | 2.12E-02 | 2.19E-03 | 1.69E-03 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 12/26/2005 | 526.1 | 3.88E-01 | 3.32E-02 | 2.62E-03 | 1.65E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/4/2005 | 823.2 | 3.73E-01 | 2.44E-02 | 1.85E-03 | 1.22E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/10/2005 | 618 | 3.73E-01 | 1.25E-02 | 1.75E-03 | 1.74E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/17/2005 | 784.8 | 3.73E-01 | 1.91E-02 | 1.71E-03 | 1.24E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/24/2005 | 670.7 | 3.73E-01 | 2.61E-02 | 2.09E-03 | 1.29E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/1/2005 | 817.9 | 3.73E-01 | 1.73E-02 | 1.58E-03 | 1.10E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/7/2005 | 633.7 | 3.73E-01 | 2.12E-02 | 2.05E-03 | 1.62E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/14/2005 | 721.9 | 3.73E-01 | 1.87E-02 | 1.79E-03 | 1.37E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/20/2005 | 604.6 | 3.73E-01 | 2.28E-02 | 2.12E-03 | 1.54E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/28/2005 | 829.4 | 3.73E-01 | 1.54E-02 | 1.50E-03 | 1.10E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/7/2005 | 635.6 | 3.73E-01 | 2.64E-02 | 2.21E-03 | 1.55E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/14/2005 | 626.4 | 3.73E-01 | 1.60E-02 | 1.84E-03 | 1.60E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/21/2005 | 623.9 | 3.73E-01 | 2.38E-02 | 2.12E-03 | 1.48E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/28/2005 | 612.4 | 3.62E-01 | 1.54E-02 | 1.86E-03 | 1.62E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/4/2005 | 612.2 | 3.73E-01 | 1.55E-02 | 1.85E-03 | 1.64E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/10/2005 | 573.5 | 3.73E-01 | 2.02E-02 | 2.13E-03 | 1.77E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/17/2005 | 682.7 | 3.73E-01 | 1.69E-02 | 1.76E-03 | 1.40E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/24/2005 | 678.8 | 3.73E-01 | 2.27E-02 | 2.00E-03 | 1.44E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/2/2005 | 659.2 | 3.73E-01 | 2.36E-02 | 2.06E-03 | 1.47E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/9/2005 | 565 | 3.73E-01 | 2.80E-02 | 2.44E-03 | 1.79E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/16/2005 | 569.1 | 3.73E-01 | 2.98E-02 | 2.50E-03 | 1.79E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/23/2005 | 570.4 | 3.73E-01 | 2.23E-02 | 2.23E-03 | 1.79E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/31/2005 | 650.1 | 3.73E-01 | 1.91E-02 | 1.91E-03 | 1.49E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/6/2005 | 487.5 | 3.73E-01 | 1.68E-02 | 2.10E-03 | 1.71E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/13/2005 | 569.6 | 3.73E-01 | 1.83E-02 | 2.00E-03 | 1.57E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/20/2005 | 553.1 | 3.73E-01 | 2.03E-02 | 2.14E-03 | 1.68E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/27/2005 | 563.8 | 3.73E-01 | 2.45E-02 | 2.32E-03 | 1.77E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/4/2005 | 562.1 | 3.73E-01 | 1.54E-02 | 1.91E-03. | 1.64E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/11/2005 | 555.1 | 3.73E-01 | 1.81E-02 | 2.03E-03 | 1.62E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/17/2005 | 479.2 | 3.73E-01 | 1.64E-02 | 2.18E-03 | 1.97E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/25/2005 | 639.1 | 3.73E-01 | 1.86E-02 | 1.90E-03 | 1.47E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/1/2005 | 563.5 | 3.73E-01 | 3.63E-02 | 2.72E-03 | 1.78E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/8/2005 | 562.3 | 3.73E-01 | 3.11E-02 | 2.57E-03 | 1.85E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/15/2005 | 554.7 | 3.73E-01 | 1.54E-02 | 1.94E-03 | 1.70E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/22/2005 | 559.9 | 3.73E-01 | 2.42E-02 | 2.28E-03 | 1.65E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/29/2005 | 564.4 | 3.73E-01 | 2.76E-02 | 2.40E-03 | 1.66E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/6/2005 | 565.8 | 3.73E-01 | 2.74E-02 | 2.39E-03 | 1.65E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/12/2005 | 430.3 | 3.73E-01 | 3.05E-02 | 2.88E-03 | 1.97E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/19/2005 | 503.2 | 3.73E-01 | 3.19E-02 | 2.73E-03 | 1.88E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/26/2005 | 484.5 | 3.73E-01 | 3.40E-02 | 2.85E-03 | 1.89E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/3/2005 | 502.6 | 3.73E-01 | 3.06E-02 | 2.63E-03 | 1.68E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/10/2005 | 502.9 | 3.73E-01 | 1.35E-02 | 2.03E-03 | 2.03E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/17/2005 | 485.9 | 3.73E-01 | 2.40E-02 | 2.44E-03 | 1.78E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/24/2005 | 486.2 | 3.73E-01 | 4.07E-02 | 3.08E-03 | 1.94E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/31/2005 | 502 | 3.73E-01 | 2.10E-02 | 2.31E-03 | 1.88E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/7/2005 | 493.8 | 3.73E-01 | 3.65E-02 | 2.92E-03 | 1.93E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/14/2005 | 589.8 | 3.73E-01 | 3.28E-02 | 2.50E-03 | 1.54E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/20/2005 | 508.7 | 3.73E-01 | 2.18E-02 | 2.38E-03 | 2.03E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/28/2005 | 636.2 | 3.73E-01 | 2.11E-02 | 2.06E-03 | 1.68E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/5/2005 | 565.9 | 3.88E-01 | 2.69E-02 | 2.33E-03 | 1.66E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/12/2005 | 581.9 | 3.88E-01 | 2.71E-02 | 2.29E-03 | 1.57E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/19/2005 | 569.9 | 3.88E-01 | 2.39E-02 | 2.19E-03 | 1.55E-03 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/26/2005 | 505.3 | 3.88E-01 | 3.66E-02 | 2.80E-03 | 1.71E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 1/4/2005 | 772.1 | 3.73E-01 | 2.62E-02 | 1.98E-03 | 1.30E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 1/10/2005 | 601.7 | 3.73E-01 | 1.46E-02 | 1.87E-03 | 1.78E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 1/17/2005 | 696.1 | 3.73E-01 | 2.09E-02 | 1.90E-03 | 1.40E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 1/24/2005 | 676.2 | 3.73E-01 | 2.69E-02 | 2.11E-03 | 1.28E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/1/2005 | 774.7 | 3.73E-01 | 2.09E-02 | 1.76E-03 | 1.16E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/7/2005 | 593 | 3.73E-01 | 2.12E-02 | 2.13E-03 | 1.73E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/14/2005 | 693.5 | 3.73E-01 | 2.00E-02 | 1.88E-03 | 1.42E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/20/2005 | 578.7 | 3.73E-01 | 2.74E-02 | 2.35E-03 | 1.60E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/28/2005 | 788.5 | 3.73E-01 | 1.81E-02 | 1.65E-03 | 1.16E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 3/7/2005 | 558.9 | 3.73E-01 | 2.49E-02 | 2.34E-03 | 1.77E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 3/14/2005 | 561.9 | 3.73E-01 | 1.76E-02 | 2.05E-03 | 1.78E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 3/21/2005 | 553.9 | 3.73E-01 | 2.51E-02 | 2.32E-03 | 1.66E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 3/28/2005 | 561.6 | 3.62E-01 | 1.83E-02 | 2.10E-03 | 1.76E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 4/4/2005 | 564.4 | 3.73E-01 | 1.42E-02 | 1.90E-03 | 1.78E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 4/10/2005 | 482.7 | 3.73E-01 | 2.33E-02 | 2.51E-03 | 2.10E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 4/17/2005 | 570.7 | 3.73E-01 | 1.65E-02 | 1.96E-03 | 1.67E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 4/24/2005 | 563.7 | 3.73E-01 | 2.50E-02 | 2.32E-03 | 1.73E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/2/2005 | 786 | 3.73E-01 | 1.81E-02 | 1.67E-03 | 1.23E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/9/2005 | 674.9 | 3.73E-01 | 2.33E-02 | 2.04E-03 | 1.50E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/16/2005 | 696.8 | 3.73E-01 | 2.36E-02 | 2.02E-03 | 1.46E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/23/2005 | 692.4 | 3.73E-01 | 1.60E-02 | 1.74E-03 | 1.47E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/31/2005 | 886.9 | 3.73E-01 | 1.25E-02 | 1.34E-03 | 1.09E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 6/6/2005 | 483.6 | 3.73E-01 | 1.36E-02 | 1.95E-03 | 1.73E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 6/13/2005 | 704.6 | 3.73E-01 | 1.42E-02 | 1.59E-03 | 1.27E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 6/20/2005 | 684 | 3.73E-01 | 1.52E-02 | 1.68E-03 | 1.36E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 6/27/2005 | 636.9 | 3.73E-01 | 1.76E-02 | 1.89E-03 | 1.57E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 7/4/2005 | 626.6 | 3.73E-01 | 1.11E-02 | 1.59E-03 | 1.47E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 7/11/2005 | 631.3 | 3.73E-01 | 1.35E-02 | 1.68E-03 | 1.43E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 7/17/2005 | 538.5 | 3.73E-01 | 1.17E-02 | 1.80E-03 | 1.75E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 7/25/2005 | 708.8 | 3.73E-01 | 1.36E-02 | 1.58E-03 | 1.33E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 8/1/2005 | 628 | 3.73E-01 | 2.66E-02 | 2.24E-03 | 1.59E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 8/8/2005 | 623.5 | 3.73E-01 | 2.35E-02 | 2.16E-03 | 1.66E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 8/15/2005 | 620.9 | 3.73E-01 | 1.23E-02 | 1.66E-03 | 1.52E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 8/22/2005 | 625.9 | 3.73E-01 | 1.86E-02 | 1.92E-03 | 1.47E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 8/29/2005 | 622.2 | 3.73E-01 | 1.85E-02 | 1.92E-03 | 1.50E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 9/6/2005 | 702.7 | 3.73E-01 | 2.13E-02 | 1.89E-03 | 1.33E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 9/12/2005 | 528.7 | 3.73E-01 | 2.28E-02 | 2.26E-03 | 1.61E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 9/19/2005 | 628.5 | 3.73E-01 | 2.06E-02 | 2.00E-03 | 1.51E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 9/26/2005 | 602 | 3.73E-01 | 2.34E-02 | 2.14E-03 | 1.52E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 10/3/2005 | 617.8 | 3.73E-01 | 2.10E-02 | 1.99E-03 | 1.36E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 10/10/2005 | 616.9 | 3.73E-01 | 1.06E-02 | 1.63E-03 | 1.65E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 10/17/2005 | 602.9 | 3.73E-01 | 1.67E-02 | 1.85E-03 | 1.43E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 10/24/2005 | 447.1 | 3.73E-01 | 3.15E-02 | 2.91E-03 | 2.11E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 10/31/2005 | 437.7 | 3.73E-01 | 2.20E-02 | 2.56E-03 | 2.15E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/7/2005 | 498.1 | 3.73E-01 | 3.65E-02 | 2.90E-03 | 1.92E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/14/2005 | 501.1 | 3.73E-01 | 3.29E-02 | 2.75E-03 | 1.81E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/20/2005 | 428.6 | 3.73E-01 | 2.34E-02 | 2.72E-03 | 2.41E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/28/2005 | 564.9 | 3.73E-01 | 2.45E-02 | 2.35E-03 | 1.89E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 12/5/2005 | 506.5 | 3.88E-01 | 2.92E-02 | 2.57E-03 | 1.85E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 12/12/2005 | 491.6 | 3.88E-01 | 3.02E-02 | 2.64E-03 | 1.85E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 12/19/2005 | 486.9 | 3.88E-01 | 2.47E-02 | 2.44E-03 | 1.82E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 12/26/2005 | 487.3 | 3.88E-01 | 3.78E-02 | 2.89E-03 | 1.78E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/4/2005 | 622.5 | 3.73E-01 | 2.89E-02 | 2.33E-03 | 1.62E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/10/2005 | 479.1 | 3.73E-01 | 1.64E-02 | 2.27E-03 | 2.24E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/17/2005 | 548.7 | 3.73E-01 | 2.42E-02 | 2.33E-03 | 1.78E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/24/2005 | 539.1 | 3.73E-01 | 3.27E-02 | 2.61E-03 | 1.60E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/1/2005 | 614.5 | 3.73E-01 | 2.20E-02 | 2.06E-03 | 1.47E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/7/2005 | 465.8 | 3.73E-01 | 2.27E-02 | 2.55E-03 | 2.20E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/14/2005 | 540.3 | 3.73E-01 | 2.24E-02 | 2.29E-03 | 1.83E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/20/2005 | 455.4 | 3.73E-01 | 2.95E-02 | 2.79E-03 | 2.04E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/28/2005 | 667.1 | 3.73E-01 | 1.89E-02 | 1.85E-03 | 1.37E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/7/2005 | 473.1 | 3.73E-01 | 2.96E-02 | 2.77E-03 | 2.09E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/14/2005 | 473.1 | 3.73E-01 | 1.90E-02 | 2.35E-03 | 2.11E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/21/2005 | 461.3 | 3.73E-01 | 2.69E-02 | 2.66E-03 | 2.00E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/28/2005 | 609.5 | 3.62E-01 | 1.56E-02 | 1.88E-03 | 1.63E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/4/2005 | 317.7 | 3.73E-01 | 1.79E-02 | 3.02E-03 | 3.17E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/10/2005 | 503.5 | 3.73E-01 | 1.86E-02 | 2.25E-03 | 2.01E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/17/2005 | 581.4 | 3.73E-01 | 2.13E-02 | 2.13E-03 | 1.64E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/24/2005 | 581.4 | 3.73E-01 | 2.63E-02 | 2.32E-03 | 1.68E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/2/2005 | 668.2 | 3.73E-01 | 2.41E-02 | 2.07E-03 | 1.45E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/9/2005 | 572.7 | 3.73E-01 | 2.60E-02 | 2.35E-03 | 1.77E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 577.9 | 3.73E-01 | 2.91E-02 | 2.45E-03 | 1.76E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/23/2005 | 576.2 | 3.73E-01 | 2.17E-02 | 2.19E-03 | 1.77E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/31/2005 | 655 | 3.73E-01 | 1.97E-02 | 1.93E-03 | 1.48E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/6/2005 | 489.3 | 3.73E-01 | 1.70E-02 | 2.10E-03 | 1.71E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/13/2005 | 575.8 | 3.73E-01 | 1.72E-02 | 1.94E-03 | 1.55E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/20/2005 | 565.4 | 3.73E-01 | 2.04E-02 | 2.12E-03 | 1.64E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/27/2005 | 570.9 | 3.73E-01 | 2.36E-02 | 2.26E-03 | 1.75E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/4/2005 | 572.8 | 3.73E-01 | 1.41E-02 | 1.83E-03 | 1.61E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/11/2005 | 566.5 | 3.73E-01 | 1.89E-02 | 2.04E-03 | 1.59E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/17/2005 | 484.9 | 3.73E-01 | 1.56E-02 | 2.12E-03 | 1.94E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/25/2005 | 648.4 | 3.73E-01 | 1.70E-02 | 1.82E-03 | 1.45E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/1/2005 | 568.1 | 3.73E-01 | 3.42E-02 | 2.64E-03 | 1.76E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/8/2005 | 569.4 | 3.73E-01 | 3.14E-02 | 2.56E-03 | 1.82E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/15/2005 | 562.4 | 3.73E-01 | 1.56E-02 | 1.93E-03 | 1.67E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/22/2005 | 566.2 | 3.73E-01 | 2.37E-02 | 2.24E-03 | 1.63E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/29/2005 | 567.8 | 3.73E-01 | 2.58E-02 | 2.32E-03 | 1.65E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/6/2005 | 643.7 | 3.73E-01 | 2.63E-02 | 2.17E-03 | 1.45E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/12/2005 | 490.4 | 3.73E-01 | 2.86E-02 | 2.60E-03 | 1.73E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/19/2005 | 569.6 | 3.73E-01 | 2.84E-02 | 2.42E-03 | 1.66E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/26/2005 | 555.1 | 3.73E-01 | 3.01E-02 | 2.50E-03 | 1.65E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/3/2005 | 560.2 | 3.73E-01 | 2.68E-02 | 2.33E-03 | 1.50E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/10/2005 | 571 | 3.73E-01 | 1.14E-02 | 1.76E-03 | 1.78E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/17/2005 | 565.1 | 3.73E-01 | 2.48E-02 | 2.26E-03 | 1.53E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/24/2005 | 559.5 | 3.73E-01 | 4.13E-02 | 2.86E-03 | 1.68E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/31/2005 | 576.1 | 3.73E-01 | 2.07E-02 | 2.11E-03 | 1.63E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/7/2005 | 568.2 | 3.73E-01 | 3.26E-02 | 2.57E-03 | 1.68E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/14/2005 | 570.7 | 3.73E-01 | 3.15E-02 | 2.50E-03 | 1.59E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/20/2005 | 490.3 | 3.73E-01 | 2.02E-02 | 2.37E-03 | 2.10E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/28/2005 | 653.8 | 3.73E-01 | 2.08E-02 | 2.02E-03 | 1.63E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/5/2005 | 758.4 | 3.88E-01 | 1.95E-02 | 1.72E-03 | 1.24E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/12/2005 | 291 | 3.88E-01 | 4.69E-02 | 4.31E-03 | 3.13E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/19/2005 | 522.3 | 3.88E-01 | 2.39E-02 | 2.30E-03 | 1.70E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/26/2005 | 540 | 3.88E-01 | 3.61E-02 | 2.68E-03 | 1.60E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/4/2005 | 690.1 | 3.73E-01 | 2.72E-02 | 2.14E-03 | 1.46E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/10/2005 | 521.7 | 3.73E-01 | 1.61E-02 | 2.13E-03 | 2.06E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/17/2005 | 607.7 | 3.73E-01 | 2.47E-02 | 2.21E-03 | 1.60E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/24/2005 | 599.2 | 3.73E-01 | 2.83E-02 | 2.31E-03 | 1.44E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/1/2005 | 698 | 3.73E-01 | 2.13E-02 | 1.89E-03 | 1.29E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/7/2005 | 525.7 | 3.73E-01 | 2.17E-02 | 2.32E-03 | 1.95E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/14/2005 | 607.6 | 3.73E-01 | 1.94E-02 | 2.01E-03 | 1.63E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/20/2005 | 512.5 | 3.73E-01 | 2.35E-02 | 2.37E-03 | 1.81E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/28/2005 | 715.7 | 3.73E-01 | 1.65E-02 | 1.68E-03 | 1.28E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/7/2005 | 521.4 | 3.73E-01 | 2.50E-02 | 2.44E-03 | 1.89E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/14/2005 | 516.4 | 3.73E-01 | 1.48E-02 | 2.04E-03 | 1.94E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/21/2005 | 505.1 | 3.73E-01 | 2.02E-02 | 2.26E-03 | 1.82E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/28/2005 | 498.6 | 3.62E-01 | 1.73E-02 | 2.22E-03 | 1.99E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/4/2005 | 496.4 | 3.73E-01 | 1.66E-02 | 2.18E-03 | 2.03E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/10/2005 | 421.5 | 3.73E-01 | 2.04E-02 | 2.61E-03 | 2.40E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/17/2005 | 489.7 | 3.73E-01 | 1.88E-02 | 2.26E-03 | 1.95E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/24/2005 | 510.2 | 3.73E-01 | 2.84E-02 | 2.59E-03 | 1.91E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/2/2005 | 580.5 | 3.73E-01 | 2.38E-02 | 2.23E-03 | 1.67E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/9/2005 | 484.8 | 3.73E-01 | 2.96E-02 | 2.74E-03 | 2.09E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/16/2005 | 500.7 | 3.73E-01 | 3.12E-02 | 2.75E-03 | 2.04E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/23/2005 | 496.9 | 3.73E-01 | 2.25E-02 | 2.43E-03 | 2.05E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/31/2005 | 563.5 | 3.73E-01 | 1.99E-02 | 2.12E-03 | 1.72E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/6/2005 | 418 | 3.73E-01 | 1.76E-02 | 2.35E-03 | 2.00E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/13/2005 | 492.8 | 3.73E-01 | 1.90E-02 | 2.22E-03 | 1.81E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/20/2005 | 483.8 | 3.73E-01 | 2.07E-02 | 2.34E-03 | 1.92E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/27/2005 | 486.6 | 3.73E-01 | 2.55E-02 | 2.57E-03 | 2.06E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/4/2005 | 486.4 | 3.73E-01 | 1.56E-02 | 2.10E-03 | 1.89E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/11/2005 | 479.4 | 3.73E-01 | 1.93E-02 | 2.28E-03 | 1.88E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/17/2005 | 414 | 3.73E-01 | 1.65E-02 | 2.40E-03 | 2.27E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/25/2005 | 551.4 | 3.73E-01 | 1.96E-02 | 2.12E-03 | 1.71E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/1/2005 | 522.8 | 3.73E-01 | 3.95E-02 | 2.94E-03 | 1.91E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/8/2005 | 523.3 | 3.73E-01 | 3.12E-02 | 2.69E-03 | 1.98E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/15/2005 | 515.1 | 3.73E-01 | 1.76E-02 | 2.13E-03 | 1.83E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/22/2005 | 520.1 | 3.73E-01 | 2.38E-02 | 2.36E-03 | 1.77E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/29/2005 | 519 | 3.73E-01 | 2.91E-02 | 2.57E-03 | 1.80E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/6/2005 | 590.1 | 3.73E-01 | 2.84E-02 | 2.36E-03 | 1.58E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/12/2005 | 448.3 | 3.73E-01 | 3.28E-02 | 2.90E-03 | 1.90E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/19/2005 | 527.5 | 3.73E-01 | 3.06E-02 | 2.61E-03 | 1.80E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/26/2005 | 507.2 | 3.73E-01 | 3.57E-02 | 2.83E-03 | 1.80E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/3/2005 | 523.5 | 3.73E-01 | 3.03E-02 | 2.56E-03 | 1.61E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/10/2005 | 522.2 | 3.73E-01 | 1.43E-02 | 2.01E-03 | 1.95E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/17/2005 | 514.6 | 3.73E-01 | 2.52E-02 | 2.40E-03 | 1.68E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/24/2005 | 514.3 | 3.73E-01 | 4.34E-02 | 3.07E-03 | 1.83E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/31/2005 | 522.8 | 3.73E-01 | 2.51E-02 | 2.41E-03 | 1.80E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/7/2005 | 520.3 | 3.73E-01 | 3.63E-02 | 2.83E-03 | 1.84E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/14/2005 | 521.2 | 3.73E-01 | 3.78E-02 | 2.85E-03 | 1.74E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/20/2005 | 446.8 | 3.73E-01 | 2.41E-02 | 2.68E-03 | 2.31E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/28/2005 | 546.1 | 3.73E-01 | 2.60E-02 | 2.45E-03 | 1.96E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/5/2005 | 546.4 | 3.88E-01 | 2.92E-02 | 2.46E-03 | 1.71E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/12/2005 | 558.5 | 3.88E-01 | 2.99E-02 | 2.44E-03 | 1.63E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/19/2005 | 410.7 | 3.88E-01 | 2.66E-02 | 2.78E-03 | 2.16E-03 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/26/2005 | 485 | 3.88E-01 | 4.14E-02 | 3.02E-03 | 1.78E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 1/4/2005 | 696.1 | 3.73E-01 | 2.62E-02 | 2.10E-03 | 1.45E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 1/10/2005 | 574.4 | 3.73E-01 | 1.64E-02 | 2.01E-03 | 1.87E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 1/17/2005 | 663.2 | 3.73E-01 | 2.50E-02 | 2.11E-03 | 1.47E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 1/24/2005 | 639.6 | 3.73E-01 | 2.73E-02 | 2.19E-03 | 1.35E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 2/1/2005 | 745.2 | 3.73E-01 | 2.17E-02 | 1.83E-03 | 1.21E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 2/7/2005 | 580.4 | 3.73E-01 | 2.24E-02 | 2.21E-03 | 1.77E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 2/14/2005 | 676.6 | 3.73E-01 | 2.14E-02 | 1.96E-03 | 1.46E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 2/20/2005 | 563.4 | 3.73E-01 | 2.58E-02 | 2.33E-03 | 1.65E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 2/28/2005 | 685.7 | 3.73E-01 | 2.20E-02 | 1.94E-03 | 1.33E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 3/7/2005 | 485.2 | 3.73E-01 | 2.94E-02 | 2.72E-03 | 2.04E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 3/14/2005 | 498.1 | 3.73E-01 | 2.19E-02 | 2.39E-03 | 2.01E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 3/21/2005 | 541.6 | 3.73E-01 | 2.63E-02 | 2.40E-03 | 1.70E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 3/28/2005 | 531.9 | 3.62E-01 | 1.90E-02 | 2.20E-03 | 1.86E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 4/4/2005 | 531.8 | 3.73E-01 | 1.92E-02 | 2.19E-03 | 1.89E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 4/10/2005 | 461.6 | 3.73E-01 | 2.16E-02 | 2.51E-03 | 2.19E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 4/17/2005 | 523.4 | 3.73E-01 | 1.99E-02 | 2.22E-03 | 1.82E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 4/24/2005 | 546.3 | 3.73E-01 | 2.64E-02 | 2.42E-03 | 1.78E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/2/2005 | 565.3 | 3.73E-01 | 2.37E-02 | 2.26E-03 | 1.71E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/9/2005 | 484 | 3.73E-01 | 3.04E-02 | 2.77E-03 | 2.09E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/16/2005 | 521.9 | 3.73E-01 | 3.03E-02 | 2.65E-03 | 1.95E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/23/2005 | 518.5 | 3.73E-01 | 2.49E-02 | 2.46E-03 | 1.97E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/31/2005 | 590.1 | 3.73E-01 | 2.12E-02 | 2.11E-03 | 1.64E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 6/6/2005 | 440.5 | 3.73E-01 | 1.78E-02 | 2.29E-03 | 1.89E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 6/13/2005 | 523.4 | 3.73E-01 | 1.90E-02 | 2.14E-03 | 1.71E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 6/20/2005 | 517.6 | 3.73E-01 | 2.14E-02 | 2.28E-03 | 1.79E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 6/27/2005 | 523.2 | 3.73E-01 | 2.73E-02 | 2.53E-03 | 1.91E-03 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Air Particulate*
*Quantity: cubic meters*
*Concentration (Activity): pCi/cubic meter*

*Analysis: Beta*

| Sample Point | | Sample Date | Quantity | Efficiency | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 7/4/2005 | 527.3 | 3.73E-01 | 1.42E-02 | 1.93E-03 | 1.75E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 7/11/2005 | 522.7 | 3.73E-01 | 1.87E-02 | 2.13E-03 | 1.72E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 7/17/2005 | 449.6 | 3.73E-01 | 1.62E-02 | 2.26E-03 | 2.09E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 7/25/2005 | 600.9 | 3.73E-01 | 1.71E-02 | 1.91E-03 | 1.57E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 8/1/2005 | 523 | 3.73E-01 | 3.77E-02 | 2.88E-03 | 1.91E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 8/8/2005 | 525.6 | 3.73E-01 | 3.12E-02 | 2.68E-03 | 1.97E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 8/15/2005 | 518.5 | 3.73E-01 | 1.45E-02 | 1.98E-03 | 1.82E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 8/22/2005 | 525.4 | 3.73E-01 | 2.39E-02 | 2.35E-03 | 1.75E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 8/29/2005 | 523.1 | 3.73E-01 | 2.67E-02 | 2.47E-03 | 1.79E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 9/6/2005 | 593.4 | 3.73E-01 | 2.43E-02 | 2.21E-03 | 1.58E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 9/12/2005 | 442.9 | 3.73E-01 | 2.93E-02 | 2.78E-03 | 1.92E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 9/19/2005 | 527.5 | 3.73E-01 | 2.92E-02 | 2.56E-03 | 1.80E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 9/26/2005 | 509.2 | 3.73E-01 | 3.15E-02 | 2.68E-03 | 1.80E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 10/3/2005 | 521.5 | 3.73E-01 | 2.64E-02 | 2.42E-03 | 1.62E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 10/10/2005 | 521.6 | 3.73E-01 | 1.32E-02 | 1.96E-03 | 1.95E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 10/17/2005 | 505.6 | 3.73E-01 | 2.32E-02 | 2.35E-03 | 1.71E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 10/24/2005 | 508.7 | 3.73E-01 | 3.67E-02 | 2.87E-03 | 1.85E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 10/31/2005 | 484.1 | 3.73E-01 | 2.79E-02 | 2.64E-03 | 1.95E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/7/2005 | 492 | 3.73E-01 | 3.53E-02 | 2.89E-03 | 1.94E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/14/2005 | 501 | 3.73E-01 | 3.25E-02 | 2.73E-03 | 1.81E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/20/2005 | 419.9 | 3.73E-01 | 2.51E-02 | 2.83E-03 | 2.46E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/28/2005 | 536.1 | 3.73E-01 | 2.42E-02 | 2.41E-03 | 1.99E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 12/5/2005 | 552.5 | 3.88E-01 | 2.66E-02 | 2.35E-03 | 1.70E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 12/12/2005 | 551.3 | 3.88E-01 | 2.51E-02 | 2.29E-03 | 1.65E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 12/19/2005 | 429.7 | 3.88E-01 | 2.65E-02 | 2.70E-03 | 2.06E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 12/26/2005 | 475.9 | 3.88E-01 | 3.88E-02 | 2.96E-03 | 1.82E-03 |

# 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 | 1/4/2005 | 631.6 | | <LLD | | 1.76E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/10/2005 | 499.1 | | <LLD | | 2.50E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/17/2005 | 575.0 | | <LLD | | 1.83E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 1/24/2005 | 572.5 | | <LLD | | 1.82E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/1/2005 | 576.9 | | <LLD | | 2.13E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/7/2005 | 475.8 | | <LLD | | 2.69E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/14/2005 | 563.1 | | <LLD | | 2.49E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/20/2005 | 464.0 | | <LLD | | 1.18E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/28/2005 | 645.4 | | <LLD | | 2.51E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/7/2005 | 460.7 | | <LLD | | 2.23E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/14/2005 | 460.9 | | <LLD | | 1.34E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/21/2005 | 462.5 | | <LLD | | 1.33E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 3/28/2005 | 471.8 | | <LLD | | 2.08E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/4/2005 | 477.0 | | <LLD | | 1.63E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/10/2005 | 409.9 | | <LLD | | 2.03E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/17/2005 | 487.8 | | <LLD | | 2.40E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 4/24/2005 | 478.2 | | <LLD | | 1.63E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/2/2005 | 584.2 | | <LLD | | 1.21E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/9/2005 | 515.0 | | <LLD | | 1.96E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 531.9 | | <LLD | | 1.40E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/23/2005 | 528.9 | | <LLD | | 2.56E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/31/2005 | 595.5 | | <LLD | | 1.49E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/6/2005 | 451.9 | | <LLD | | 2.38E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/13/2005 | 538.3 | | <LLD | | 1.46E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 6/20/2005 | 524.4 | | <LLD | | 1.86E-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 | 6/27/2005 | 529.1 | | <LLD | | 1.71E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/4/2005 | 527.7 | | <LLD | | 1.36E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/11/2005 | 534.6 | | <LLD | | 1.71E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/17/2005 | 448.8 | | <LLD | | 2.60E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 7/25/2005 | 604.5 | | <LLD | | 1.13E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/1/2005 | 530.8 | | <LLD | | 1.66E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/8/2005 | 517.7 | | <LLD | | 1.29E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/15/2005 | 519.8 | | <LLD | | 1.64E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/22/2005 | 525.0 | | <LLD | | 2.01E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/29/2005 | 527.5 | | <LLD | | 1.62E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/6/2005 | 594.3 | | <LLD | | 1.12E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/12/2005 | 449.1 | | <LLD | | 1.73E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/19/2005 | 531.8 | | <LLD | | 1.90E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 9/26/2005 | 508.7 | | <LLD | | 2.77E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/3/2005 | 526.3 | | <LLD | | 2.41E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/10/2005 | 523.8 | | <LLD | | 1.46E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/17/2005 | 514.2 | | <LLD | | 2.15E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/24/2005 | 518.7 | | <LLD | | 2.53E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 10/31/2005 | 507.4 | | <LLD | | 2.11E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/7/2005 | 510.5 | | <LLD | | 1.45E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/14/2005 | 512.4 | | <LLD | | 1.69E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/20/2005 | 437.7 | | <LLD | | 2.30E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/28/2005 | 570.6 | | <LLD | | 1.48E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/5/2005 | 508.6 | | <LLD | | 2.12E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/12/2005 | 489.3 | | <LLD | | 1.93E-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 | 12/19/2005 | 479.5 | | <LLD | | 2.17E-02 |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 12/26/2005 | 462.7 | | <LLD | | 2.33E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/4/2005 | 691.4 | | <LLD | | 2.66E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/10/2005 | 538.8 | | <LLD | | 2.63E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/17/2005 | 643.5 | | <LLD | | 1.85E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 1/24/2005 | 624.4 | | <LLD | | 2.14E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/1/2005 | 735.1 | | <LLD | | 1.11E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/7/2005 | 555.1 | | <LLD | | 3.62E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/14/2005 | 695.5 | | <LLD | | 2.88E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/20/2005 | 497.5 | | <LLD | | 3.64E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/28/2005 | 687.5 | | <LLD | | 1.11E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/7/2005 | 469.1 | | <LLD | | 3.11E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/14/2005 | 471.9 | | <LLD | | 1.69E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/21/2005 | 462.6 | | <LLD | | 2.74E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 3/28/2005 | 474.8 | | <LLD | | 1.64E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/4/2005 | 475.5 | | <LLD | | 2.22E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/10/2005 | 410.8 | | <LLD | | 3.56E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/17/2005 | 473.4 | | <LLD | | 3.39E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 4/24/2005 | 493.8 | | <LLD | | 2.79E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/2/2005 | 643.7 | | <LLD | | 8.89E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/9/2005 | 550.4 | | <LLD | | 2.40E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/16/2005 | 568.5 | | <LLD | | 1.66E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/23/2005 | 562.9 | | <LLD | | 2.39E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/31/2005 | 640.6 | | <LLD | | 2.41E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/6/2005 | 478.3 | | <LLD | | 2.70E-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 |
|---|---|---|---|---|---|---|---|
| 2 | 0.2 MI S - INFORMATION CENTER | 6/13/2005 | 570.6 | | <LLD | | 2.44E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/20/2005 | 562.6 | | <LLD | | 1.56E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 6/27/2005 | 566.2 | | <LLD | | 2.88E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/4/2005 | 571.7 | | <LLD | | 2.36E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/11/2005 | 568.4 | | <LLD | | 1.43E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/17/2005 | 489.8 | | <LLD | | 2.80E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 7/25/2005 | 653.6 | | <LLD | | 1.59E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/1/2005 | 572.5 | | <LLD | | 2.84E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/8/2005 | 572.2 | | <LLD | | 2.43E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/15/2005 | 565.5 | | <LLD | | 2.72E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/22/2005 | 574.8 | | <LLD | | 2.34E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/29/2005 | 568.0 | | <LLD | | 1.62E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/6/2005 | 644.8 | | <LLD | | 1.64E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/12/2005 | 481.8 | | <LLD | | 2.48E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/19/2005 | 575.9 | | <LLD | | 9.60E-03 |
| 2 | 0.2 MI S - INFORMATION CENTER | 9/26/2005 | 554.9 | | <LLD | | 1.47E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/3/2005 | 568.0 | | <LLD | | 2.53E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/10/2005 | 564.3 | | <LLD | | 2.42E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/17/2005 | 547.3 | | <LLD | | 2.61E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/24/2005 | 552.8 | | <LLD | | 1.60E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 10/31/2005 | 547.0 | | <LLD | | 1.45E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/7/2005 | 555.2 | | <LLD | | 2.46E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/14/2005 | 554.1 | | <LLD | | 1.31E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/20/2005 | 469.4 | | <LLD | | 3.15E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/28/2005 | 604.8 | | <LLD | | 1.91E-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 | 12/5/2005 | 551.5 | | <LLD | | 1.25E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/12/2005 | 543.6 | | <LLD | | 1.51E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/19/2005 | 460.4 | | <LLD | | 1.56E-02 |
| 2 | 0.2 MI S - INFORMATION CENTER | 12/26/2005 | 529.4 | | <LLD | | 1.57E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/4/2005 | 950.8 | | <LLD | | 8.15E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/10/2005 | 758.1 | | <LLD | | 3.16E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/17/2005 | 886.9 | | <LLD | | 1.19E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 1/24/2005 | 827.5 | | <LLD | | 9.30E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/1/2005 | 1026.8 | | <LLD | | 7.15E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/7/2005 | 814.9 | | <LLD | | 9.26E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/14/2005 | 937.5 | | <LLD | | 7.96E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/20/2005 | 661.4 | | <LLD | | 1.62E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/28/2005 | 896.7 | | <LLD | | 3.00E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/7/2005 | 597.8 | | <LLD | | 2.17E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/14/2005 | 589.4 | | <LLD | | 1.20E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/21/2005 | 596.5 | | <LLD | | 1.67E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 3/28/2005 | 588.4 | | <LLD | | 2.39E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/4/2005 | 597.3 | | <LLD | | 1.60E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/10/2005 | 507.4 | | <LLD | | 1.40E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/17/2005 | 605.1 | | <LLD | | 1.61E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 4/24/2005 | 595.4 | | <LLD | | 1.30E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/2/2005 | 554.2 | | <LLD | | 1.96E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/9/2005 | 478.3 | | <LLD | | 1.71E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/16/2005 | 479.3 | | <LLD | | 1.60E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/23/2005 | 478.3 | | <LLD | | 2.07E-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 | 5/31/2005 | 542.9 | | <LLD | | 2.54E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/6/2005 | 412.5 | | <LLD | | 2.40E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/13/2005 | 483.6 | | <LLD | | 1.97E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/20/2005 | 467.1 | | <LLD | | 1.54E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 6/27/2005 | 489.7 | | <LLD | | 2.59E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/4/2005 | 495.8 | | <LLD | | 1.81E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/11/2005 | 497.6 | | <LLD | | 1.62E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/17/2005 | 424.3 | | <LLD | | 2.03E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 7/25/2005 | 715.8 | | <LLD | | 1.94E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/1/2005 | 629.0 | | <LLD | | 8.00E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/8/2005 | 629.2 | | <LLD | | 1.50E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/15/2005 | 626.1 | | <LLD | | 1.15E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/22/2005 | 634.5 | | <LLD | | 1.23E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/29/2005 | 633.6 | | <LLD | | 1.20E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/6/2005 | 600.6 | | <LLD | | 1.74E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/12/2005 | 453.2 | | <LLD | | 1.52E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/19/2005 | 537.3 | | <LLD | | 2.86E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 9/26/2005 | 518.6 | | <LLD | | 3.07E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/3/2005 | 535.8 | | <LLD | | 1.45E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/10/2005 | 535.7 | | <LLD | | 3.00E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/17/2005 | 524.2 | | <LLD | | 3.57E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/24/2005 | 532.2 | | <LLD | | 3.03E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 10/31/2005 | 523.1 | | <LLD | | 2.26E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/7/2005 | 527.8 | | <LLD | | 1.81E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/14/2005 | 530.2 | | <LLD | | 3.08E-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 | 11/20/2005 | 452.6 | | <LLD | | 2.53E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/28/2005 | 597.0 | | <LLD | | 1.16E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/5/2005 | 528.8 | | <LLD | | 9.19E-03 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/12/2005 | 528.2 | | <LLD | | 2.40E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/19/2005 | 516.8 | | <LLD | | 2.02E-02 |
| 3 | 0.5 MI N - MICROWAVE TOWER | 12/26/2005 | 499.0 | | <LLD | | 1.73E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/4/2005 | 588.4 | | <LLD | | 1.49E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/10/2005 | 439.8 | | <LLD | | 4.65E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/17/2005 | 508.0 | | <LLD | | 5.08E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 1/24/2005 | 508.4 | | <LLD | | 3.52E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/1/2005 | 585.8 | | <LLD | | 4.61E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/7/2005 | 433.9 | | <LLD | | 5.82E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/14/2005 | 500.3 | | <LLD | | 4.80E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/20/2005 | 418.7 | | <LLD | | 5.40E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 2/28/2005 | 644.2 | | <LLD | | 1.60E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/7/2005 | 421.6 | | <LLD | | 2.80E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/14/2005 | 423.4 | | <LLD | | 4.13E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/21/2005 | 403.7 | | <LLD | | 2.93E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 3/28/2005 | 400.0 | | <LLD | | 8.49E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/4/2005 | 408.0 | | <LLD | | 3.91E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/10/2005 | 405.3 | | <LLD | | 1.73E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/17/2005 | 214.0 | | <LLD | | 4.41E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 4/24/2005 | 153.5 | | <LLD | | 4.88E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/2/2005 | 583.0 | | <LLD | | 2.31E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/9/2005 | 496.7 | | <LLD | | 1.82E-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 |
|---|---|---|---|---|---|---|---|
| 4 | 0.4 MI ESE - SPILLWAY | 5/16/2005 | 509.7 | | <LLD | | 2.14E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/23/2005 | 558.1 | | <LLD | | 2.12E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 5/31/2005 | 631.4 | | <LLD | | 2.01E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/6/2005 | 471.4 | | <LLD | | 2.30E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/13/2005 | 560.2 | | <LLD | | 1.91E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/20/2005 | 549.1 | | <LLD | | 1.79E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 6/27/2005 | 552.3 | | <LLD | | 2.32E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/4/2005 | 554.3 | | <LLD | | 3.42E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/11/2005 | 551.4 | | <LLD | | 1.75E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/17/2005 | 463.2 | | <LLD | | 3.03E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 7/25/2005 | 641.1 | | <LLD | | 2.54E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/1/2005 | 554.4 | | <LLD | | 3.39E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/8/2005 | 553.3 | | <LLD | | 2.23E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/15/2005 | 546.8 | | <LLD | | 3.30E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/22/2005 | 553.0 | | <LLD | | 2.96E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 8/29/2005 | 540.9 | | <LLD | | 2.91E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/6/2005 | 620.3 | | <LLD | | 1.39E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/12/2005 | 465.2 | | <LLD | | 1.97E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/19/2005 | 551.5 | | <LLD | | 2.00E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 9/26/2005 | 532.7 | | <LLD | | 1.78E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/3/2005 | 546.1 | | <LLD | | 2.63E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/10/2005 | 538.6 | | <LLD | | 7.10E-03 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/17/2005 | 506.1 | | <LLD | | 2.01E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/24/2005 | 530.4 | | <LLD | | 1.76E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 10/31/2005 | 530.0 | | <LLD | | 2.01E-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 |
|---|---|---|---|---|---|---|---|
| 4 | 0.4 MI ESE - SPILLWAY | 11/7/2005 | 531.1 | | <LLD | | 2.84E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/14/2005 | 532.2 | | <LLD | | 1.59E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/20/2005 | 419.6 | | <LLD | | 3.52E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 11/28/2005 | 570.5 | | <LLD | | 2.57E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/5/2005 | 500.9 | | <LLD | | 2.79E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/12/2005 | 501.8 | | <LLD | | 3.61E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/19/2005 | 482.4 | | <LLD | | 2.44E-02 |
| 4 | 0.4 MI ESE - SPILLWAY | 12/26/2005 | 487.8 | | <LLD | | 3.11E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 1/4/2005 | 605.1 | | <LLD | | 1.26E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 1/10/2005 | 465.5 | | <LLD | | 2.67E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 1/17/2005 | 534.3 | | <LLD | | 1.36E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 1/24/2005 | 548.8 | | <LLD | | 2.33E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 2/1/2005 | 601.3 | | <LLD | | 2.04E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 2/7/2005 | 460.0 | | <LLD | | 2.79E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 2/14/2005 | 537.8 | | <LLD | | 2.38E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 2/20/2005 | 449.7 | | <LLD | | 3.53E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 2/28/2005 | 663.3 | | <LLD | | 2.32E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 3/7/2005 | 504.9 | | <LLD | | 1.44E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 3/14/2005 | 504.8 | | <LLD | | 2.06E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 3/21/2005 | 499.6 | | <LLD | | 2.02E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 3/28/2005 | 508.5 | | <LLD | | 1.31E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 4/4/2005 | 510.9 | | <LLD | | 1.63E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 4/10/2005 | 431.3 | | <LLD | | 2.68E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 4/17/2005 | 505.3 | | <LLD | | 2.90E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 4/24/2005 | 511.3 | | <LLD | | 2.52E-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 |
|---|---|---|---|---|---|---|---|
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 5/2/2005 | 616.7 | | <LLD | | 1.95E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 5/9/2005 | 533.9 | | <LLD | | 1.08E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 5/16/2005 | 549.8 | | <LLD | | 2.71E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 5/23/2005 | 544.3 | | <LLD | | 1.51E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 5/31/2005 | 601.1 | | <LLD | | 2.18E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 6/6/2005 | 458.8 | | <LLD | | 1.84E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 6/13/2005 | 556.6 | | <LLD | | 2.21E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 6/20/2005 | 535.9 | | <LLD | | 2.19E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 6/27/2005 | 549.3 | | <LLD | | 1.97E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 7/4/2005 | 551.0 | | <LLD | | 2.08E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 7/11/2005 | 550.6 | | <LLD | | 1.01E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 7/17/2005 | 464.5 | | <LLD | | 1.92E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 7/25/2005 | 627.1 | | <LLD | | 1.76E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 8/1/2005 | 550.8 | | <LLD | | 1.83E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 8/8/2005 | 551.5 | | <LLD | | 1.69E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 8/15/2005 | 544.8 | | <LLD | | 1.70E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 8/22/2005 | 554.1 | | <LLD | | 1.73E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 8/29/2005 | 556.4 | | <LLD | | 1.68E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 9/6/2005 | 103.1 | | <LLD | | 9.83E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 9/12/2005 | 468.6 | | <LLD | | 1.72E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 9/19/2005 | 556.6 | | <LLD | | 2.24E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 9/26/2005 | 536.1 | | <LLD | | 2.02E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 10/3/2005 | 553.5 | | <LLD | | 3.10E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 10/10/2005 | 549.9 | | <LLD | | 3.20E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 10/17/2005 | 540.2 | | <LLD | | 2.17E-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 |
|---|---|---|---|---|---|---|---|
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 10/24/2005 | 540.4 | | <LLD | | 3.03E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 10/31/2005 | 539.4 | | <LLD | | 2.17E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 11/7/2005 | 540.3 | | <LLD | | 2.19E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 11/14/2005 | 540.7 | | <LLD | | 1.83E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 11/20/2005 | 462.0 | | <LLD | | 2.41E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 11/28/2005 | 607.6 | | <LLD | | 1.09E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 12/5/2005 | 535.3 | | <LLD | | 1.88E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 12/12/2005 | 537.9 | | <LLD | | 1.40E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 12/19/2005 | 524.1 | | <LLD | | 1.55E-02 |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHNSO | 12/26/2005 | 526.1 | | <LLD | | 1.77E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/4/2005 | 823.2 | | <LLD | | 2.61E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/10/2005 | 618.0 | | <LLD | | 4.03E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/17/2005 | 784.8 | | <LLD | | 1.81E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 1/24/2005 | 670.7 | | <LLD | | 2.55E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/1/2005 | 817.9 | | <LLD | | 2.10E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/7/2005 | 633.7 | | <LLD | | 4.38E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/14/2005 | 721.9 | | <LLD | | 2.38E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/20/2005 | 604.6 | | <LLD | | 3.30E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/28/2005 | 829.4 | | <LLD | | 3.65E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/7/2005 | 635.6 | | <LLD | | 2.30E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/14/2005 | 626.4 | | <LLD | | 1.86E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/21/2005 | 623.9 | | <LLD | | 2.15E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 3/28/2005 | 612.4 | | <LLD | | 2.16E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/4/2005 | 612.2 | | <LLD | | 2.50E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/10/2005 | 573.5 | | <LLD | | 2.07E-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 - NEAR INFORMATION CENTER | 4/17/2005 | 682.7 | | <LLD | | 1.77E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 4/24/2005 | 678.8 | | <LLD | | 1.60E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/2/2005 | 659.2 | | <LLD | | 1.65E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/9/2005 | 565.0 | | <LLD | | 2.48E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/16/2005 | 569.1 | | <LLD | | 2.12E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/23/2005 | 570.4 | | <LLD | | 1.43E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/31/2005 | 650.1 | | <LLD | | 1.96E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/6/2005 | 487.5 | | <LLD | | 1.28E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/13/2005 | 569.6 | | <LLD | | 1.48E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/20/2005 | 553.1 | | <LLD | | 1.90E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 6/27/2005 | 563.8 | | <LLD | | 2.84E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/4/2005 | 562.1 | | <LLD | | 1.71E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/11/2005 | 555.1 | | <LLD | | 2.26E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/17/2005 | 479.2 | | <LLD | | 2.34E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 7/25/2005 | 639.1 | | <LLD | | 2.39E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/1/2005 | 563.5 | | <LLD | | 1.58E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/8/2005 | 562.3 | | <LLD | | 2.29E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/15/2005 | 554.7 | | <LLD | | 2.12E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/22/2005 | 559.9 | | <LLD | | 1.91E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/29/2005 | 564.4 | | <LLD | | 1.74E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/6/2005 | 565.8 | | <LLD | | 3.07E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/12/2005 | 430.3 | | <LLD | | 2.19E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/19/2005 | 503.2 | | <LLD | | 3.37E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 9/26/2005 | 484.5 | | <LLD | | 3.17E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/3/2005 | 502.6 | | <LLD | | 2.30E-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 - NEAR INFORMATION CENTER | 10/10/2005 | 502.9 | | <LLD | | 2.03E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/17/2005 | 485.9 | | <LLD | | 2.06E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/24/2005 | 486.2 | | <LLD | | 2.38E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 10/31/2005 | 502.0 | | <LLD | | 1.67E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/7/2005 | 493.8 | | <LLD | | 2.16E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/14/2005 | 589.8 | | <LLD | | 1.11E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/20/2005 | 508.7 | | <LLD | | 3.43E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/28/2005 | 636.2 | | <LLD | | 1.54E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/5/2005 | 565.9 | | <LLD | | 2.80E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/12/2005 | 581.9 | | <LLD | | 2.71E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/19/2005 | 569.9 | | <LLD | | 2.97E-02 |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 12/26/2005 | 505.3 | | <LLD | | 2.32E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 1/4/2005 | 772.1 | | <LLD | | 1.39E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 1/10/2005 | 601.7 | | <LLD | | 2.11E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 1/17/2005 | 696.1 | | <LLD | | 1.56E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 1/24/2005 | 676.2 | | <LLD | | 1.91E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 2/1/2005 | 774.7 | | <LLD | | 1.59E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 2/7/2005 | 593.0 | | <LLD | | 2.09E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 2/14/2005 | 693.5 | | <LLD | | 1.90E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 2/20/2005 | 578.7 | | <LLD | | 1.81E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 2/28/2005 | 788.5 | | <LLD | | 2.68E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 3/7/2005 | 558.9 | | <LLD | | 3.26E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 3/14/2005 | 561.9 | | <LLD | | 1.49E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 3/21/2005 | 553.9 | | <LLD | | 2.10E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 3/28/2005 | 561.6 | | <LLD | | 2.11E-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 |
|---|---|---|---|---|---|---|---|
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 4/4/2005 | 564.4 | | <LLD | | 1.27E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 4/10/2005 | 482.7 | | <LLD | | 1.68E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 4/17/2005 | 570.7 | | <LLD | | 1.69E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 4/24/2005 | 563.7 | | <LLD | | 1.67E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 5/2/2005 | 786.0 | | <LLD | | 1.66E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 5/9/2005 | 674.9 | | <LLD | | 7.50E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 5/16/2005 | 696.8 | | <LLD | | 1.70E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 5/23/2005 | 692.4 | | <LLD | | 8.25E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 5/31/2005 | 886.9 | | <LLD | | 8.54E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 6/6/2005 | 483.6 | | <LLD | | 1.50E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 6/13/2005 | 704.6 | | <LLD | | 2.02E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 6/20/2005 | 684.0 | | <LLD | | 1.15E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 6/27/2005 | 636.9 | | <LLD | | 1.84E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 7/4/2005 | 626.6 | | <LLD | | 1.48E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 7/11/2005 | 631.3 | | <LLD | | 1.04E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 7/17/2005 | 538.5 | | <LLD | | 8.36E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 7/25/2005 | 708.8 | | <LLD | | 1.45E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 8/1/2005 | 628.0 | | <LLD | | 1.64E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 8/8/2005 | 623.5 | | <LLD | | 8.56E-03 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 8/15/2005 | 620.9 | | <LLD | | 1.60E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 8/22/2005 | 625.9 | | <LLD | | 1.73E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 8/29/2005 | 622.2 | | <LLD | | 1.26E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 9/6/2005 | 702.7 | | <LLD | | 1.81E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 9/12/2005 | 528.7 | | <LLD | | 1.19E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 9/19/2005 | 628.5 | | <LLD | | 1.59E-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 |
|---|---|---|---|---|---|---|---|
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 9/26/2005 | 602.0 | | <LLD | | 1.11E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 10/3/2005 | 617.8 | | <LLD | | 1.85E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 10/10/2005 | 616.9 | | <LLD | | 2.51E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 10/17/2005 | 602.9 | | <LLD | | 2.15E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 10/24/2005 | 447.1 | | <LLD | | 3.24E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 10/31/2005 | 437.7 | | <LLD | | 2.25E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 11/7/2005 | 498.1 | | <LLD | | 1.75E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 11/14/2005 | 501.1 | | <LLD | | 1.63E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 11/20/2005 | 428.6 | | <LLD | | 1.45E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 11/28/2005 | 564.9 | | <LLD | | 1.11E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 12/5/2005 | 506.5 | | <LLD | | 1.59E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 12/12/2005 | 491.6 | | <LLD | | 1.74E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 12/19/2005 | 486.9 | | <LLD | | 1.84E-02 |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HARTSVI | 12/26/2005 | 487.3 | | <LLD | | 2.70E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/4/2005 | 622.5 | | <LLD | | 3.29E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/10/2005 | 479.1 | | <LLD | | 2.60E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/17/2005 | 548.7 | | <LLD | | 3.77E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 1/24/2005 | 539.1 | | <LLD | | 4.86E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/1/2005 | 614.5 | | <LLD | | 3.94E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/7/2005 | 465.8 | | <LLD | | 4.44E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/14/2005 | 540.3 | | <LLD | | 3.45E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/20/2005 | 455.4 | | <LLD | | 4.53E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/28/2005 | 667.1 | | <LLD | | 2.05E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/7/2005 | 473.1 | | <LLD | | 3.19E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/14/2005 | 473.1 | | <LLD | | 2.73E-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 |
|---|---|---|---|---|---|---|---|
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/21/2005 | 461.3 | | <LLD | | 2.82E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 3/28/2005 | 609.5 | | <LLD | | 1.24E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/4/2005 | 317.7 | | <LLD | | 2.95E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/10/2005 | 503.5 | | <LLD | | 2.74E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/17/2005 | 581.4 | | <LLD | | 2.48E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 4/24/2005 | 581.4 | | <LLD | | 2.13E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/2/2005 | 668.2 | | <LLD | | 2.40E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/9/2005 | 572.7 | | <LLD | | 1.88E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 577.9 | | <LLD | | 2.33E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/23/2005 | 576.2 | | <LLD | | 2.09E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/31/2005 | 655.0 | | <LLD | | 1.84E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/6/2005 | 489.3 | | <LLD | | 2.61E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/13/2005 | 575.8 | | <LLD | | 2.94E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/20/2005 | 565.4 | | <LLD | | 9.45E-03 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 6/27/2005 | 570.9 | | <LLD | | 2.61E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/4/2005 | 572.8 | | <LLD | | 2.88E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/11/2005 | 566.5 | | <LLD | | 3.32E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/17/2005 | 484.9 | | <LLD | | 3.75E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 7/25/2005 | 648.4 | | <LLD | | 2.08E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/1/2005 | 568.1 | | <LLD | | 3.46E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/8/2005 | 569.4 | | <LLD | | 1.74E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/15/2005 | 562.4 | | <LLD | | 1.61E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/22/2005 | 566.2 | | <LLD | | 2.69E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/29/2005 | 567.8 | | <LLD | | 3.17E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/6/2005 | 643.7 | | <LLD | | 2.01E-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 |
|---|---|---|---|---|---|---|---|
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/12/2005 | 490.4 | | <LLD | | 3.99E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/19/2005 | 569.6 | | <LLD | | 2.03E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 9/26/2005 | 555.1 | | <LLD | | 1.65E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/3/2005 | 560.2 | | <LLD | | 2.55E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/10/2005 | 571.0 | | <LLD | | 2.71E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/17/2005 | 565.1 | | <LLD | | 2.07E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/24/2005 | 559.5 | | <LLD | | 1.45E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 10/31/2005 | 576.1 | | <LLD | | 1.59E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/7/2005 | 568.2 | | <LLD | | 2.70E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/14/2005 | 570.7 | | <LLD | | 1.33E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/20/2005 | 490.3 | | <LLD | | 2.05E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/28/2005 | 653.8 | | <LLD | | 2.24E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/5/2005 | 758.4 | | <LLD | | 1.32E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/12/2005 | 291.0 | | <LLD | | 4.41E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/19/2005 | 522.3 | | <LLD | | 1.80E-02 |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 12/26/2005 | 540.0 | | <LLD | | 3.49E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/4/2005 | 690.1 | | <LLD | | 1.61E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/10/2005 | 521.7 | | <LLD | | 4.35E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/17/2005 | 607.7 | | <LLD | | 1.69E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 1/24/2005 | 599.2 | | <LLD | | 2.23E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/1/2005 | 698.0 | | <LLD | | 1.77E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/7/2005 | 525.7 | | <LLD | | 3.02E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/14/2005 | 607.6 | | <LLD | | 1.95E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/20/2005 | 512.5 | | <LLD | | 2.42E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/28/2005 | 715.7 | | <LLD | | 3.07E-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 |
|---|---|---|---|---|---|---|---|
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/7/2005 | 521.4 | | <LLD | | 2.53E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/14/2005 | 516.4 | | <LLD | | 1.77E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/21/2005 | 505.1 | | <LLD | | 1.00E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 3/28/2005 | 498.6 | | <LLD | | 3.44E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/4/2005 | 496.4 | | <LLD | | 1.86E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/10/2005 | 421.5 | | <LLD | | 2.14E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/17/2005 | 489.7 | | <LLD | | 2.28E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 4/24/2005 | 510.2 | | <LLD | | 1.25E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/2/2005 | 580.5 | | <LLD | | 2.09E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/9/2005 | 484.8 | | <LLD | | 1.59E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/16/2005 | 500.7 | | <LLD | | 1.74E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/23/2005 | 496.9 | | <LLD | | 1.53E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/31/2005 | 563.5 | | <LLD | | 1.92E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/6/2005 | 418.0 | | <LLD | | 1.23E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/13/2005 | 492.8 | | <LLD | | 2.18E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/20/2005 | 483.8 | | <LLD | | 2.32E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 6/27/2005 | 486.6 | | <LLD | | 2.63E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/4/2005 | 486.4 | | <LLD | | 1.71E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/11/2005 | 479.4 | | <LLD | | 2.06E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/17/2005 | 414.0 | | <LLD | | 1.30E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 7/25/2005 | 551.4 | | <LLD | | 1.61E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/1/2005 | 522.8 | | <LLD | | 2.29E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/8/2005 | 523.3 | | <LLD | | 1.67E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/15/2005 | 515.1 | | <LLD | | 1.43E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/22/2005 | 520.1 | | <LLD | | 1.98E-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 |
|---|---|---|---|---|---|---|---|
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/29/2005 | 519.0 | | <LLD | | 2.07E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/6/2005 | 590.1 | | <LLD | | 1.61E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/12/2005 | 448.3 | | <LLD | | 2.18E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/19/2005 | 527.5 | | <LLD | | 3.22E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 9/26/2005 | 507.2 | | <LLD | | 2.35E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/3/2005 | 523.5 | | <LLD | | 2.08E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/10/2005 | 522.2 | | <LLD | | 2.14E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/17/2005 | 514.6 | | <LLD | | 2.29E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/24/2005 | 514.3 | | <LLD | | 2.77E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 10/31/2005 | 522.8 | | <LLD | | 2.72E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/7/2005 | 520.3 | | <LLD | | 2.35E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/14/2005 | 521.2 | | <LLD | | 1.65E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/20/2005 | 446.8 | | <LLD | | 3.51E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/28/2005 | 546.1 | | <LLD | | 1.40E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/5/2005 | 546.4 | | <LLD | | 1.71E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/12/2005 | 558.5 | | <LLD | | 1.45E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/19/2005 | 410.7 | | <LLD | | 1.56E-02 |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 12/26/2005 | 485.0 | | <LLD | | 1.72E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 1/4/2005 | 696.1 | | <LLD | | 4.43E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 1/10/2005 | 574.4 | | <LLD | | 2.94E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 1/17/2005 | 663.2 | | <LLD | | 2.84E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 1/24/2005 | 639.6 | | <LLD | | 2.48E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 2/1/2005 | 745.2 | | <LLD | | 2.02E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 2/7/2005 | 580.4 | | <LLD | | 1.70E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 2/14/2005 | 676.6 | | <LLD | | 1.27E-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 | 2/20/2005 | 563.4 | | <LLD | | 2.86E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 2/28/2005 | 685.7 | | <LLD | | 2.85E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 3/7/2005 | 485.2 | | <LLD | | 3.01E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 3/14/2005 | 498.1 | | <LLD | | 2.27E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 3/21/2005 | 541.6 | | <LLD | | 2.23E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 3/28/2005 | 531.9 | | <LLD | | 1.65E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 4/4/2005 | 531.8 | | <LLD | | 2.05E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 4/10/2005 | 461.6 | | <LLD | | 2.56E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 4/17/2005 | 523.4 | | <LLD | | 2.13E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 4/24/2005 | 546.3 | | <LLD | | 1.87E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 5/2/2005 | 565.3 | | <LLD | | 1.63E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 5/9/2005 | 484.0 | | <LLD | | 1.46E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 5/16/2005 | 521.9 | | <LLD | | 1.80E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 5/23/2005 | 518.5 | | <LLD | | 1.36E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 5/31/2005 | 590.1 | | <LLD | | 8.35E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 6/6/2005 | 440.5 | | <LLD | | 2.10E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 6/13/2005 | 523.4 | | <LLD | | 3.69E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 6/20/2005 | 517.6 | | <LLD | | 2.09E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 6/27/2005 | 523.2 | | <LLD | | 2.73E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 7/4/2005 | 527.3 | | <LLD | | 2.23E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 7/11/2005 | 522.7 | | <LLD | | 2.71E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 7/17/2005 | 449.6 | | <LLD | | 2.04E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 7/25/2005 | 600.9 | | <LLD | | 2.71E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 8/1/2005 | 523.0 | | <LLD | | 2.23E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 8/8/2005 | 525.6 | | <LLD | | 3.36E-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 | 8/15/2005 | 518.5 | | <LLD | | 2.08E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 8/22/2005 | 525.4 | | <LLD | | 2.24E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 8/29/2005 | 523.1 | | <LLD | | 1.88E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 9/6/2005 | 593.4 | | <LLD | | 3.11E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 9/12/2005 | 442.9 | | <LLD | | 2.17E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 9/19/2005 | 527.5 | | <LLD | | 2.28E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 9/26/2005 | 509.2 | | <LLD | | 2.07E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 10/3/2005 | 512.5 | | <LLD | | 2.47E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 10/10/2005 | 521.6 | | <LLD | | 2.84E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 10/17/2005 | 505.6 | | <LLD | | 2.02E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 10/24/2005 | 508.7 | | <LLD | | 1.55E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 10/31/2005 | 484.1 | | <LLD | | 2.21E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 11/7/2005 | 492.0 | | <LLD | | 1.98E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 11/14/2005 | 501.0 | | <LLD | | 2.60E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 11/20/2005 | 419.9 | | <LLD | | 2.51E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 11/28/2005 | 536.1 | | <LLD | | 1.85E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 12/5/2005 | 552.5 | | <LLD | | 9.58E-03 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 12/12/2005 | 551.3 | | <LLD | | 1.51E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 12/19/2005 | 429.7 | | <LLD | | 3.15E-02 |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TRAC | 12/26/2005 | 475.9 | | <LLD | | 2.44E-02 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Groundwater*
*Quantity: Liters*
*Concentration (Activity): pCi/Liter*

*Analysis: Tritium*

| Sample Point | | Sample Date | Efficiency | Quantity | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 3/7/2005 | 0.422 | 0.005 | <LLD | | 3.11E+02 |
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 6/27/2005 | 0.419 | 0.005 | <LLD | | 3.09E+02 |
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 8/22/2005 | 0.416 | 0.005 | <LLD | | 3.15E+02 |
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 11/28/2005 | 0.419 | 0.005 | <LLD | | 3.07E+02 |
| 64 | SC 23 @ BLACK CREEK | 3/7/2005 | 0.423 | 0.005 | <LLD | | 3.10E+02 |
| 64 | SC 23 @ BLACK CREEK | 6/27/2005 | 0.419 | 0.005 | <LLD | | 3.09E+02 |
| 64 | SC 23 @ BLACK CREEK | 8/22/2005 | 0.418 | 0.005 | <LLD | | 3.13E+02 |
| 64 | SC 23 @ BLACK CREEK | 11/28/2005 | 0.419 | 0.005 | <LLD | | 3.07E+02 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Surface Water*
*Quantity: Liters*
*Concentration (Activity): pCi/Liter*

*Analysis: Tritium*

| Sample Point | | Sample Date | Efficiency | Quantity | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 1/21/2005 | 0.423 | 0.005 | 1.27E+03 | 2.30E+02 | 3.53E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 2/17/2005 | 0.424 | 0.005 | 7.10E+02 | 1.96E+02 | 3.09E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 3/17/2005 | 0.424 | 0.005 | 5.10E+02 | 1.90E+02 | 3.03E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 4/18/2005 | 0.421 | 0.005 | <LLD | | 3.14E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 5/16/2005 | 0.417 | 0.005 | <LLD | | 3.21E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 6/17/2005 | 0.423 | 0.005 | 2.96E+03 | 2.14E+02 | 3.00E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 7/18/2005 | 0.422 | 0.005 | 2.78E+03 | 2.16E+02 | 3.06E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 8/19/2005 | 0.419 | 0.005 | 3.33E+03 | 2.23E+02 | 3.10E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 9/19/2005 | 0.422 | 0.005 | 4.97E+03 | 2.36E+02 | 3.05E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 10/17/2005 | 0.419 | 0.005 | 4.83E+03 | 2.37E+02 | 3.10E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 11/17/2005 | 0.413 | 0.005 | 3.89E+03 | 2.30E+02 | 3.13E+02 |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S-16-23) & | 12/19/2005 | 0.42 | 0.005 | 3.04E+03 | 2.19E+02 | 3.08E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 1/21/2005 | 0.423 | 0.005 | <LLD | | 3.53E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 2/17/2005 | 0.422 | 0.005 | <LLD | | 3.11E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 3/17/2005 | 0.42 | 0.005 | <LLD | | 3.06E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 4/18/2005 | 0.42 | 0.005 | <LLD | | 3.14E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/16/2005 | 0.419 | 0.005 | <LLD | | 3.20E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 6/17/2005 | 0.423 | 0.005 | <LLD | | 3.00E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 7/18/2005 | 0.422 | 0.005 | <LLD | | 3.06E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 8/19/2005 | 0.418 | 0.005 | <LLD | | 3.10E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 9/19/2005 | 0.421 | 0.005 | <LLD | | 3.06E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 10/17/2005 | 0.42 | 0.005 | <LLD | | 3.09E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 11/17/2005 | 0.416 | 0.005 | <LLD | | 3.11E+02 |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 12/19/2005 | 0.415 | 0.005 | <LLD | | 3.12E+02 |

# RNP Radiological Environmental Monitoring Analysis Report

*Media Type: Surface Water*
*Quantity: Liters*
*Concentration (Activity): pCi/Liter*

*Analysis: Tritium*

| Sample Point | | Sample Date | Efficiency | Quantity | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 57 | ASH POND | 1/21/2005 | 0.424 | 0.005 | 1.35E+03 | 2.31E+02 | 3.52E+02 |
| 57 | ASH POND | 2/17/2005 | 0.424 | 0.005 | 9.35E+02 | 1.98E+02 | 3.09E+02 |
| 57 | ASH POND | 3/17/2005 | 0.422 | 0.005 | 8.05E+02 | 1.94E+02 | 3.05E+02 |
| 57 | ASH POND | 4/18/2005 | 0.421 | 0.005 | <LLD | | 3.14E+02 |
| 57 | ASH POND | 5/16/2005 | 0.418 | 0.005 | <LLD | | 3.21E+02 |
| 57 | ASH POND | 6/17/2005 | 0.42 | 0.005 | 1.30E+03 | 1.98E+02 | 3.02E+02 |
| 57 | ASH POND | 7/18/2005 | 0.419 | 0.005 | 2.25E+03 | 2.12E+02 | 3.09E+02 |
| 57 | ASH POND | 8/19/2005 | 0.419 | 0.005 | 3.10E+03 | 2.21E+02 | 3.10E+02 |
| 57 | ASH POND | 9/19/2005 | 0.419 | 0.005 | 4.61E+03 | 2.34E+02 | 3.07E+02 |
| 57 | ASH POND | 10/17/2005 | 0.42 | 0.005 | 4.91E+03 | 2.37E+02 | 3.09E+02 |
| 57 | ASH POND | 11/17/2005 | 0.419 | 0.005 | 4.24E+03 | 2.31E+02 | 3.08E+02 |
| 57 | ASH POND | 12/19/2005 | 0.42 | 0.005 | 3.34E+03 | 2.22E+02 | 3.08E+02 |

# 2005 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*

| Sample Point | | Sample Date | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/14/2005 | 6859.3 | K-40 | 1.19E-02 | 9.33E-03 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 2/14/2005 | 6859.3 | BE-7 | 9.91E-02 | 1.54E-02 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 6652.1 | PB-214 | 2.03E-03 | 6.91E-04 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 6652.1 | BE-7 | 1.32E-01 | 1.15E-02 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 6652.1 | TL-208 | 4.15E-04 | 3.20E-04 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 6652.1 | BI-214 | 1.53E-03 | 7.09E-04 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 5/16/2005 | 6652.1 | PB-212 | 6.43E-04 | 4.98E-04 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/15/2005 | 6820.3 | BE-7 | 1.21E-01 | 1.85E-02 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 8/15/2005 | 6820.3 | PB-214 | 3.16E-03 | 1.53E-03 | |
| 1 | 24.4 MI ESE - FLORENCE - CONTROL | 11/14/2005 | 6561.7 | BE-7 | 1.12E-01 | 2.40E-02 | |
| 2 | 0.2 MI S - INFORMATION CENTER | 2/14/2005 | 7547.2 | BE-7 | 1.01E-01 | 2.08E-02 | |
| 2 | 0.2 MI S - INFORMATION CENTER | 5/16/2005 | 6997.3 | BE-7 | 1.46E-01 | 1.44E-02 | |
| 2 | 0.2 MI S - INFORMATION CENTER | 8/15/2005 | 7393.9 | BE-7 | 1.12E-01 | 1.94E-02 | |
| 2 | 0.2 MI S - INFORMATION CENTER | 11/14/2005 | 7047.8 | BE-7 | 1.23E-01 | 3.10E-02 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/14/2005 | 10132.7 | BE-7 | 8.09E-02 | 1.15E-02 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 2/14/2005 | 10132.7 | TL-208 | 3.00E-04 | 2.42E-04 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/16/2005 | 6691.1 | BI-214 | 1.22E-03 | 7.32E-04 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/16/2005 | 6691.1 | K-40 | 1.02E-02 | 5.95E-03 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/16/2005 | 6691.1 | BE-7 | 1.45E-01 | 1.15E-02 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 5/16/2005 | 6691.1 | PB-214 | 1.12E-03 | 7.64E-04 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 8/15/2005 | 7395.6 | BE-7 | 1.17E-01 | 2.02E-02 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/14/2005 | 6831.4 | K-40 | 9.51E-03 | 9.07E-03 | |
| 3 | 0.5 MI N - MICROWAVE TOWER | 11/14/2005 | 6831.4 | BE-7 | 1.43E-01 | 2.07E-02 | |
| 4 | 0.4 MI ESE - SPILLWAY | 2/14/2005 | 6276.2 | BE-7 | 1.01E-01 | 2.36E-02 | |
| 4 | 0.4 MI ESE - SPILLWAY | 5/16/2005 | 6092.7 | BE-7 | 1.37E-01 | 1.31E-02 | |
| 4 | 0.4 MI ESE - SPILLWAY | 8/15/2005 | 7128.1 | BE-7 | 1.00E-01 | 1.87E-02 | |

# 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 |
|---|---|---|---|---|---|---|---|
| 4 | 0.4 MI ESE - SPILLWAY | 11/14/2005 | 6677.5 | BE-7 | 1.30E-01 | 1.88E-02 | |
| 4 | 0.4 MI ESE - SPILLWAY | 11/14/2005 | 6677.5 | PB-212 | 1.04E-03 | 9.30E-04 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 2/14/2005 | 6883.6 | BE-7 | 1.00E-01 | 1.65E-02 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/16/2005 | 6905.2 | PB-212 | 8.62E-04 | 4.11E-04 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/16/2005 | 6905.2 | PB-214 | 1.77E-03 | 7.43E-04 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/16/2005 | 6905.2 | BE-7 | 1.40E-01 | 1.15E-02 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 5/16/2005 | 6905.2 | BI-214 | 1.69E-03 | 6.74E-04 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 8/15/2005 | 6615.2 | BE-7 | 1.18E-01 | 2.12E-02 | |
| 5 | 0.9 MI ENE - EAST SHORE OF LAKE NEAR JOHN | 11/14/2005 | 6997.4 | BE-7 | 1.19E-01 | 2.10E-02 | |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 2/14/2005 | 9002.5 | BE-7 | 9.77E-02 | 1.61E-02 | |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 5/16/2005 | 7735 | BE-7 | 1.43E-01 | 1.46E-02 | |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 8/15/2005 | 7024.1 | BE-7 | 1.39E-01 | 2.43E-02 | |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/14/2005 | 6931.1 | BE-7 | 1.21E-01 | 1.97E-02 | |
| 6 | 0.2 MI SSW - NEAR INFORMATION CENTER | 11/14/2005 | 6931.1 | K-40 | 1.58E-02 | 1.02E-02 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/14/2005 | 8410.8 | BE-7 | 8.09E-02 | 1.41E-02 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/14/2005 | 8410.8 | PB-212 | 6.57E-04 | 5.80E-04 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 2/14/2005 | 8410.8 | BI-214 | 1.63E-03 | 8.38E-04 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/16/2005 | 8427.6 | PB-214 | 1.84E-03 | 6.14E-04 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/16/2005 | 8427.6 | BI-214 | 1.29E-03 | 6.26E-04 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/16/2005 | 8427.6 | PB-212 | 4.22E-04 | 3.62E-04 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/16/2005 | 8427.6 | K-40 | 8.49E-03 | 4.44E-03 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 5/16/2005 | 8427.6 | BE-7 | 1.12E-01 | 9.10E-03 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 8/15/2005 | 8087.6 | BE-7 | 8.24E-02 | 1.51E-02 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/14/2005 | 6687.4 | BI-214 | 1.68E-03 | 9.88E-04 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/14/2005 | 6687.4 | BE-7 | 1.05E-01 | 2.03E-02 | |
| 7 | 6.4 MI ESE - CP&L FACILITY ON RR AVE., HART | 11/14/2005 | 6687.4 | PB-214 | 2.26E-03 | 9.99E-04 | |

# 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 |
|---|---|---|---|---|---|---|---|
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 2/14/2005 | 6949.5 | BE-7 | 1.00E-01 | 1.98E-02 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 7235.4 | PB-214 | 1.67E-03 | 6.84E-04 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 7235.4 | K-40 | 7.50E-03 | 6.08E-03 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 7235.4 | BI-214 | 1.72E-03 | 6.58E-04 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 7235.4 | PB-212 | 8.66E-04 | 3.92E-04 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 5/16/2005 | 7235.4 | BE-7 | 1.42E-01 | 1.13E-02 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 8/15/2005 | 7365.3 | BE-7 | 1.23E-01 | 2.43E-02 | |
| 55 | 0.2 MI SSE - SOUTH OF WEST SETTLING POND | 11/14/2005 | 7226.6 | BE-7 | 1.25E-01 | 2.47E-02 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/14/2005 | 7519.7 | PB-214 | 1.13E-03 | 8.97E-04 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 2/14/2005 | 7519.7 | BE-7 | 9.39E-02 | 1.45E-02 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/16/2005 | 6425.4 | BE-7 | 1.43E-01 | 1.49E-02 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 5/16/2005 | 6425.4 | PB-214 | 1.34E-03 | 9.72E-04 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 8/15/2005 | 6604.6 | BE-7 | 1.16E-01 | 2.15E-02 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/14/2005 | 6632.4 | BE-7 | 1.21E-01 | 2.66E-02 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/14/2005 | 6632.4 | TL-208 | 7.52E-04 | 6.29E-04 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/14/2005 | 6632.4 | BI-214 | 3.05E-03 | 2.06E-03 | |
| 60 | 0.2 MI SE - ROBINSON PICNIC AREA | 11/14/2005 | 6632.4 | PB-214 | 3.13E-03 | 1.73E-03 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 2/14/2005 | 7881.4 | BE-7 | 1.07E-01 | 1.95E-02 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/16/2005 | 6747.6 | K-40 | 1.23E-02 | 6.15E-03 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/16/2005 | 6747.6 | BE-7 | 1.44E-01 | 1.22E-02 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/16/2005 | 6747.6 | PB-212 | 7.15E-04 | 4.88E-04 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/16/2005 | 6747.6 | BI-214 | 1.10E-03 | 6.32E-04 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 5/16/2005 | 6747.6 | PB-214 | 1.39E-03 | 7.77E-04 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 8/15/2005 | 6789.1 | BE-7 | 1.11E-01 | 1.84E-02 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/14/2005 | 6492.9 | PB-214 | 3.31E-03 | 1.50E-03 | |
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/14/2005 | 6492.9 | BE-7 | 1.15E-01 | 1.88E-02 | |

# 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 |
|---|---|---|---|---|---|---|---|
| 61 | 0.3 MI WSW - WEST PARKING LOT NEAR RR TR | 11/14/2005 | 6492.9 | PB-212 | 1.22E-03 | 6.71E-04 | |

# 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 | 5/17/2005 | 635.6 | TL-208 | 7.25E-02 | 2.06E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 635.6 | K-40 | 1.52E+00 | 3.75E-01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 635.6 | PB-212 | 1.79E-01 | 3.01E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 635.6 | BI-214 | 1.37E-01 | 4.57E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 635.6 | PB-214 | 1.26E-01 | 4.75E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 635.6 | AC-228 | 3.10E-01 | 7.27E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 635.6 | BE-7 | 3.19E-01 | 1.60E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | AC-228 | 2.19E+00 | 1.21E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | BE-7 | 2.78E+00 | 2.27E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | CO-60 | 3.12E-02 | 1.57E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | PB-214 | 4.83E-01 | 4.75E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | K-40 | 8.94E-01 | 2.13E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | TL-208 | 8.33E-02 | 2.34E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | BI-212 | 3.01E-01 | 1.47E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | PB-212 | 2.68E-01 | 2.57E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | BI-214 | 5.06E-01 | 4.68E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 1047.7 | RA-226 | 3.65E+00 | 5.03E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | AC-228 | 4.61E-01 | 7.07E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | K-40 | 5.00E-01 | 1.96E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | TL-208 | 5.39E-02 | 1.92E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | PB-212 | 1.96E-01 | 2.56E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | BI-214 | 3.25E-01 | 4.35E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | PB-214 | 2.63E-01 | 4.25E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | RA-226 | 9.66E-01 | 4.05E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | CO-60 | 3.88E-02 | 1.60E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 695.4 | BE-7 | 3.00E+00 | 2.33E-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 |
|---|---|---|---|---|---|---|---|
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | BI-212 | 7.33E-01 | 3.49E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | AC-228 | 5.53E+00 | 2.50E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | K-40 | 1.63E+00 | 4.32E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | I-131 | 6.64E+00 | 1.67E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | BE-7 | 1.45E+00 | 3.08E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | RA-226 | 1.12E+01 | 1.09E+00 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | PB-214 | 1.46E+00 | 1.07E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | BI-214 | 1.68E+00 | 1.03E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | PB-212 | 1.07E+00 | 5.90E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 542 | TL-208 | 3.79E-01 | 4.97E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | CS-137 | 2.36E-02 | 1.21E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | K-40 | 1.36E+00 | 2.54E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | PB-212 | 5.14E-02 | 2.10E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | BI-214 | 1.29E-01 | 2.99E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | PB-214 | 9.69E-02 | 3.39E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | AC-228 | 2.02E-01 | 5.79E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | I-131 | 1.07E-02 | 1.01E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 6/2/2005 | 671.8 | BE-7 | 2.88E-01 | 1.39E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

*Media Type: Fish - Bottom Feeder*
*Quantity: Grams (wet)*
*Activity: pCi/gram wet*

| Sample Point | | Sample Date | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 577.2 | TL-208 | 2.33E-02 | 1.99E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 577.2 | BI-212 | 1.83E-01 | 1.06E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 577.2 | PB-212 | 3.67E-02 | 2.77E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 577.2 | PB-214 | 6.63E-02 | 4.86E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 577.2 | K-40 | 2.52E+00 | 6.01E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 544.4 | BI-214 | 8.92E-02 | 3.13E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 544.4 | PB-212 | 2.61E-02 | 2.29E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 544.4 | CS-137 | 2.66E-02 | 2.13E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 544.4 | K-40 | 2.53E+00 | 4.52E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 535.5 | AC-228 | 1.03E-01 | 1.00E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 535.5 | PB-212 | 7.74E-02 | 6.23E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 535.5 | BI-214 | 1.46E-01 | 6.97E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 535.5 | K-40 | 4.49E+00 | 7.20E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 535.5 | PB-214 | 1.31E-01 | 6.15E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 470.1 | CS-137 | 3.82E-02 | 1.87E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 470.1 | PB-214 | 9.41E-02 | 4.28E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 470.1 | K-40 | 2.66E+00 | 5.09E-01 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 503.8 | CS-137 | 9.03E-02 | 3.06E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 503.8 | K-40 | 2.78E+00 | 5.92E-01 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 503.8 | PB-212 | 5.44E-02 | 4.53E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 503.8 | BI-214 | 1.50E-01 | 6.40E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 503.8 | AC-228 | 2.29E-01 | 9.53E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 503.8 | PB-214 | 1.03E-01 | 5.06E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 528.7 | CS-137 | 4.15E-02 | 1.89E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 528.7 | K-40 | 2.06E+00 | 4.21E-01 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 528.7 | PB-212 | 5.99E-02 | 2.51E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

*Media Type: Fish - Bottom Feeder*
*Quantity: Grams (wet)*
*Activity: pCi/gram wet*

| Sample Point | | Sample Date | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 528.7 | BI-214 | 6.93E-02 | 4.19E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 528.7 | PB-214 | 9.24E-02 | 3.86E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 528.7 | AC-228 | 7.30E-02 | 6.74E-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 | 5/17/2005 | 505.8 | TL-208 | 8.58E-01 | 3.93E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | CS-137 | 2.30E-01 | 2.65E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | K-40 | 2.84E+00 | 4.08E-01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | BI-212 | 1.46E+00 | 2.41E-01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | PB-212 | 2.66E+00 | 6.10E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | BI-214 | 1.97E+00 | 9.20E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | PB-214 | 2.22E+00 | 8.80E-02 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | RA-226 | 4.65E+00 | 5.75E-01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/17/2005 | 505.8 | AC-228 | 2.58E+00 | 1.37E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | CS-137 | 1.43E-01 | 5.17E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | TL-208 | 3.46E-01 | 6.52E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | BI-212 | 1.01E+00 | 3.01E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | PB-212 | 1.08E+00 | 9.00E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | BI-214 | 8.24E-01 | 1.30E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | PB-214 | 8.16E-01 | 1.14E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | RA-226 | 2.50E+00 | 8.96E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | K-40 | 5.19E-01 | 4.11E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 6/7/2005 | 1338 | AC-228 | 9.13E-01 | 1.75E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | AC-228 | 8.32E-01 | 1.64E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | TL-208 | 2.23E-01 | 4.88E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | BI-212 | 3.96E-01 | 3.20E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | PB-212 | 7.23E-01 | 7.82E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | BI-214 | 1.17E+00 | 1.38E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | PB-214 | 1.26E+00 | 1.34E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | RA-226 | 3.11E+00 | 9.73E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 6/7/2005 | 1091.8 | K-40 | 1.62E+00 | 4.91E-01 | |

# 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 |
|---|---|---|---|---|---|---|---|
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | K-40 | 8.84E-01 | 3.06E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | TL-208 | 3.91E-01 | 4.19E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | BI-212 | 7.35E-01 | 2.18E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | PB-212 | 1.21E+00 | 6.00E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | BI-214 | 9.76E-01 | 8.44E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | PB-214 | 9.87E-01 | 8.12E-02 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | AC-228 | 1.32E+00 | 1.43E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | BE-7 | 2.19E-01 | 1.97E-01 | |
| 54 | 10.1 MI E - AUBURNDALE PLANTATION | 5/17/2005 | 1254.6 | RA-226 | 1.48E+00 | 7.79E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | BE-7 | 4.38E-01 | 1.68E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | BI-214 | 8.43E-02 | 3.76E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | CS-134 | <LLD | | 2.26E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | CS-137 | <LLD | | 2.46E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | I-131 | <LLD | | 2.15E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | K-40 | 4.29E+00 | 5.30E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 400.1 | PB-212 | 4.49E-02 | 2.67E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | AC-228 | 1.38E-01 | 8.77E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | BE-7 | 5.67E-01 | 2.18E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | BI-214 | 6.00E-02 | 5.15E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | CS-134 | <LLD | | 2.60E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | CS-137 | <LLD | | 2.06E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | I-131 | <LLD | | 1.99E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | K-40 | 1.85E+00 | 3.62E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | PB-212 | 7.37E-02 | 4.22E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 446.5 | TL-208 | 5.59E-02 | 2.64E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | BE-7 | 1.16E+00 | 2.46E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | BI-214 | 7.28E-02 | 5.02E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | CS-134 | <LLD | | 2.85E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | CS-137 | <LLD | | 3.22E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | I-131 | <LLD | | 2.35E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | K-40 | 1.89E+00 | 4.27E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | PB-212 | 5.10E-02 | 3.46E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | PB-214 | 7.69E-02 | 5.39E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 488.2 | TL-208 | 3.58E-02 | 2.30E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | CHERRY | 360.4 | BE-7 | 4.96E-01 | 2.36E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | CHERRY | 360.4 | CS-134 | <LLD | | 3.67E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | CHERRY | 360.4 | CS-137 | <LLD | | 3.91E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | CHERRY | 360.4 | I-131 | <LLD | | 3.97E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | CHERRY | 360.4 | K-40 | 3.35E+00 | 6.11E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | CHERRY | 360.4 | PB-212 | 5.45E-02 | 4.73E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | AC-228 | 2.23E-01 | 9.34E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | BE-7 | 1.32E+00 | 2.45E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | BI-214 | 4.37E-02 | 4.29E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | CS-134 | <LLD | | 3.58E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | CS-137 | <LLD | | 3.86E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | I-131 | <LLD | | 3.96E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | K-40 | 1.43E+00 | 5.24E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | PB-212 | 1.30E-01 | 5.23E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | DOGWOOD | 396.8 | RA-226 | 6.53E-01 | 5.46E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | AC-228 | 2.04E-01 | 1.03E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | BE-7 | 1.02E+00 | 2.16E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | CS-134 | <LLD | | 3.49E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | CS-137 | <LLD | | 3.02E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | I-131 | <LLD | | 3.28E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | K-40 | 2.53E+00 | 5.79E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | PB-212 | 5.16E-02 | 3.14E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | PB-214 | 8.46E-02 | 4.66E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 6/3/2005 | WAX MYRTLE | 328 | TL-208 | 4.83E-02 | 2.82E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 502.5 | BE-7 | 5.87E-01 | 2.11E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 502.5 | CS-134 | <LLD | | 2.38E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 502.5 | CS-137 | <LLD | | 2.33E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 502.5 | I-131 | <LLD | | 3.67E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 502.5 | K-40 | 2.95E+00 | 4.52E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | AC-228 | 3.16E-01 | 1.10E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | BE-7 | 8.75E-01 | 2.04E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | BI-214 | 5.21E-02 | 3.79E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | CS-134 | <LLD | | 3.06E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | CS-137 | <LLD | | 3.02E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | I-131 | <LLD | | 3.00E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | K-40 | 2.38E+00 | 4.74E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | PB-212 | 1.36E-01 | 3.69E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 502.2 | TL-208 | 5.06E-02 | 2.46E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 501 | BE-7 | 1.08E+00 | 2.22E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 501 | CS-134 | <LLD | | 2.65E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 501 | CS-137 | 2.51E-02 | 1.77E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 501 | I-131 | <LLD | | 3.04E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 501 | K-40 | 1.70E+00 | 4.57E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 501 | RA-226 | 4.88E-01 | 3.56E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 474.3 | AC-228 | 8.56E-02 | 5.32E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 474.3 | BE-7 | 9.87E-01 | 1.81E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 474.3 | CS-134 | <LLD | | 2.16E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 474.3 | CS-137 | <LLD | | 2.36E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 474.3 | I-131 | <LLD | | 2.13E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 474.3 | K-40 | 3.11E+00 | 4.36E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 491.2 | BE-7 | 6.54E-01 | 2.68E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 491.2 | CS-134 | <LLD | | 1.92E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 491.2 | CS-137 | 6.42E-02 | 2.42E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 491.2 | I-131 | <LLD | | 2.42E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 491.2 | K-40 | 3.29E+00 | 5.06E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 491.2 | PB-212 | 3.02E-02 | 2.82E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 442.7 | AC-228 | 1.32E-01 | 5.76E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 442.7 | BE-7 | 1.89E+00 | 2.27E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 442.7 | CS-134 | <LLD | | 2.41E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 442.7 | CS-137 | <LLD | | 2.49E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 442.7 | I-131 | <LLD | | 2.10E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 442.7 | K-40 | 1.39E+00 | 3.09E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 529 | BE-7 | 4.93E-01 | 1.75E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 529 | CS-134 | <LLD | | 2.56E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 529 | CS-137 | <LLD | | 2.04E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 529 | I-131 | <LLD | | 2.70E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 529 | K-40 | 1.76E+00 | 3.86E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 478.7 | AC-228 | 8.20E-02 | 7.10E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 478.7 | BE-7 | 1.01E+00 | 2.02E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 478.7 | CS-134 | <LLD | | 2.00E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 478.7 | CS-137 | 3.06E-02 | 1.87E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 478.7 | I-131 | <LLD | | 2.75E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 478.7 | K-40 | 2.75E+00 | 4.32E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 459.6 | AC-228 | 1.84E-01 | 8.42E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 459.6 | BE-7 | 1.43E+00 | 2.90E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 459.6 | CS-134 | <LLD | | 2.56E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 459.6 | CS-137 | <LLD | | 3.00E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 459.6 | I-131 | <LLD | | 2.99E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 459.6 | K-40 | 9.60E-01 | 4.07E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 491.2 | BE-7 | 5.05E-01 | 1.50E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 491.2 | CS-134 | <LLD | | 2.14E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 491.2 | CS-137 | <LLD | | 2.19E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 491.2 | I-131 | <LLD | | 1.74E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 491.2 | K-40 | 2.52E+00 | 3.99E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 491.2 | PB-212 | 3.47E-02 | 2.51E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 472.8 | BE-7 | 5.89E-01 | 1.81E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 472.8 | CS-134 | <LLD | | 2.32E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 472.8 | CS-137 | 9.08E-02 | 2.23E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 472.8 | I-131 | <LLD | | 3.39E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 472.8 | K-40 | 1.56E+00 | 4.10E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 455.2 | AC-228 | 9.83E-02 | 8.00E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 455.2 | BE-7 | 1.21E+00 | 2.49E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 455.2 | CS-134 | <LLD | | 2.26E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 455.2 | CS-137 | <LLD | | 1.78E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 455.2 | I-131 | <LLD | | 2.81E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 455.2 | K-40 | 1.34E+00 | 3.89E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | AC-228 | 3.11E-01 | 8.82E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | BE-7 | 8.51E-01 | 1.90E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | BI-214 | 8.92E-02 | 4.65E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | CS-134 | <LLD | | 2.70E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | CS-137 | <LLD | | 2.81E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | I-131 | <LLD | | 2.36E-02 |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | K-40 | 2.06E+00 | 4.84E-01 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | PB-212 | 4.45E-02 | 4.04E-02 | |
| 50 | SSE - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 473.9 | PB-214 | 1.22E-01 | 5.25E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 449 | BE-7 | 3.48E-01 | 1.83E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 449 | CS-134 | <LLD | | 2.54E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 449 | CS-137 | 3.52E-02 | 2.89E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 449 | I-131 | <LLD | | 3.04E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | CHERRY | 449 | K-40 | 3.53E+00 | 5.38E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | AC-228 | 2.69E-01 | 1.17E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | BE-7 | 4.49E-01 | 2.48E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | CS-134 | <LLD | | 3.13E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | CS-137 | <LLD | | 2.91E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | I-131 | <LLD | | 4.16E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | K-40 | 3.66E+00 | 5.58E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | PB-212 | 6.97E-02 | 4.07E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | RA-226 | 5.84E-01 | 5.14E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | DOGWOOD | 431.2 | TL-208 | 4.71E-02 | 2.45E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 462.7 | BE-7 | 5.28E-01 | 1.62E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 462.7 | BI-214 | 4.21E-02 | 3.52E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 462.7 | CS-134 | <LLD | | 2.40E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 462.7 | CS-137 | <LLD | | 2.36E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 462.7 | I-131 | <LLD | | 1.95E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 5/4/2005 | WAX MYRTLE | 462.7 | K-40 | 2.02E+00 | 3.69E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | CHERRY | 508.6 | BE-7 | 2.41E-01 | 1.56E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | CHERRY | 508.6 | CS-134 | <LLD | | 2.45E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | CHERRY | 508.6 | CS-137 | <LLD | | 2.69E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | CHERRY | 508.6 | I-131 | <LLD | | 3.13E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | CHERRY | 508.6 | K-40 | 3.93E+00 | 5.34E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | DOGWOOD | 446 | BE-7 | 8.00E-01 | 2.07E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | DOGWOOD | 446 | CS-134 | <LLD | | 2.82E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | DOGWOOD | 446 | CS-137 | <LLD | | 2.66E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | DOGWOOD | 446 | I-131 | <LLD | | 3.46E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | DOGWOOD | 446 | K-40 | 2.50E+00 | 4.63E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | WAX MYRTLE | 465.5 | BE-7 | 9.38E-01 | 1.78E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | WAX MYRTLE | 465.5 | CS-134 | <LLD | | 1.68E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | WAX MYRTLE | 465.5 | CS-137 | <LLD | | 2.18E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | WAX MYRTLE | 465.5 | I-131 | <LLD | | 2.47E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 6/2/2005 | WAX MYRTLE | 465.5 | K-40 | 1.66E+00 | 3.70E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | BE-7 | 2.77E-01 | 2.63E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | BI-214 | 7.23E-02 | 4.85E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | CS-134 | <LLD | | 2.86E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | CS-137 | <LLD | | 2.41E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | I-131 | <LLD | | 3.58E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | K-40 | 3.46E+00 | 5.14E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | PB-212 | 3.61E-02 | 2.97E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | CHERRY | 448.2 | PB-214 | 8.73E-02 | 4.51E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 488.9 | BE-7 | 1.29E+00 | 2.43E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 488.9 | CS-134 | <LLD | | 3.06E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 488.9 | CS-137 | <LLD | | 3.02E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 488.9 | I-131 | <LLD | | 3.00E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 488.9 | K-40 | 1.94E+00 | 3.72E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | DOGWOOD | 488.9 | PB-214 | 4.40E-02 | 3.62E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 515.9 | BE-7 | 6.40E-01 | 1.57E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 515.9 | CS-134 | <LLD | | 1.77E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 515.9 | CS-137 | <LLD | | 1.34E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 515.9 | I-131 | <LLD | | 2.50E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 7/1/2005 | WAX MYRTLE | 515.9 | K-40 | 1.19E+00 | 3.26E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 454.2 | AC-228 | 1.01E-01 | 6.27E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 454.2 | BE-7 | 5.47E-01 | 1.72E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 454.2 | CS-134 | <LLD | | 1.98E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 454.2 | CS-137 | <LLD | | 2.26E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 454.2 | I-131 | <LLD | | 2.27E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | CHERRY | 454.2 | K-40 | 2.27E+00 | 4.04E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 403.5 | BE-7 | 1.47E+00 | 2.25E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 403.5 | CS-134 | <LLD | | 2.26E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 403.5 | CS-137 | 5.83E-02 | 2.00E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 403.5 | I-131 | <LLD | | 2.45E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 403.5 | K-40 | 1.70E+00 | 3.82E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | SASSAFRAS | 403.5 | PB-212 | 4.15E-02 | 4.08E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | BE-7 | 1.25E+00 | 2.47E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | BI-214 | 5.52E-02 | 4.01E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | CS-134 | <LLD | | 2.58E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | CS-137 | <LLD | | 2.74E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | I-131 | <LLD | | 2.51E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | K-40 | 1.09E+00 | 3.49E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 8/6/2005 | WAX MYRTLE | 492.1 | PB-214 | 5.48E-02 | 4.08E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 475.5 | BE-7 | 9.04E-01 | 1.69E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 475.5 | CS-134 | <LLD | | 1.94E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 475.5 | CS-137 | 3.79E-02 | 1.73E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 475.5 | I-131 | <LLD | | 2.53E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | CHERRY | 475.5 | K-40 | 2.99E+00 | 4.16E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | BE-7 | 1.11E+00 | 2.55E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | CS-134 | <LLD | | 3.26E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | CS-137 | <LLD | | 3.65E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | I-131 | <LLD | | 3.92E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | K-40 | 1.81E+00 | 5.10E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | PB-212 | 8.09E-02 | 4.42E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | SASSAFRAS | 415.2 | TL-208 | 5.78E-02 | 2.37E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 476.1 | AC-228 | 1.16E-01 | 7.91E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 476.1 | BE-7 | 1.26E+00 | 1.99E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 476.1 | CS-134 | <LLD | | 1.93E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 476.1 | CS-137 | <LLD | | 2.05E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 476.1 | I-131 | <LLD | | 2.56E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 9/1/2005 | WAX MYRTLE | 476.1 | K-40 | 1.16E+00 | 3.32E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 416.6 | AC-228 | 2.07E-01 | 8.79E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 416.6 | CS-134 | <LLD | | 2.69E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 416.6 | CS-137 | <LLD | | 2.61E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 416.6 | I-131 | <LLD | | 2.27E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | CHERRY | 416.6 | K-40 | 4.52E+00 | 5.73E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 447 | BE-7 | 8.99E-01 | 2.35E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 447 | CS-134 | <LLD | | 2.93E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 447 | CS-137 | <LLD | | 2.96E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 447 | I-131 | <LLD | | 2.56E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | SASSAFRAS | 447 | K-40 | 1.79E+00 | 4.35E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 458.7 | AC-228 | 1.87E-01 | 6.83E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 458.7 | BE-7 | 1.19E+00 | 2.24E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 458.7 | CS-134 | <LLD | | 2.58E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 458.7 | CS-137 | <LLD | | 2.82E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 458.7 | I-131 | <LLD | | 2.46E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 10/4/2005 | WAX MYRTLE | 458.7 | K-40 | 1.77E+00 | 4.66E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | AC-228 | 1.06E-01 | 5.52E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | BE-7 | 9.01E-01 | 2.16E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | BI-214 | 1.60E-01 | 4.82E-02 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | CS-134 | <LLD | | 1.87E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | CS-137 | <LLD | | 2.21E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | I-131 | <LLD | | 1.68E-02 |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | K-40 | 8.93E-01 | 3.53E-01 | |
| 51 | SSW - CLOSE TO SITE BOUNDARY | 11/2/2005 | WAX MYRTLE | 442.3 | PB-214 | 1.51E-01 | 3.88E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | CHERRY | 509.1 | CS-134 | <LLD | | 2.80E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | CHERRY | 509.1 | CS-137 | <LLD | | 2.67E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | CHERRY | 509.1 | I-131 | <LLD | | 2.49E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | CHERRY | 509.1 | K-40 | 3.53E+00 | 4.81E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | BE-7 | 4.03E-01 | 1.62E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | BI-214 | 9.26E-02 | 6.46E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | CS-134 | <LLD | | 2.72E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | CS-137 | <LLD | | 2.26E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | I-131 | <LLD | | 2.26E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | K-40 | 2.36E+00 | 4.59E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | PB-212 | 3.36E-02 | 2.84E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | DOGWOOD | 360.1 | PB-214 | 5.85E-02 | 4.34E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | BE-7 | 1.68E+00 | 3.09E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | CS-134 | <LLD | | 3.00E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | CS-137 | <LLD | | 3.12E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | I-131 | <LLD | | 2.97E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | K-40 | 2.48E+00 | 4.85E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | PB-212 | 5.69E-02 | 2.93E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 5/3/2005 | WAX MYRTLE | 444.5 | PB-214 | 5.26E-02 | 4.08E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | CHERRY | 484.8 | BE-7 | 2.26E-01 | 1.54E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | CHERRY | 484.8 | CS-134 | <LLD | | 2.52E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | CHERRY | 484.8 | CS-137 | <LLD | | 2.37E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | CHERRY | 484.8 | I-131 | <LLD | | 3.44E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | CHERRY | 484.8 | K-40 | 2.90E+00 | 4.83E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | AC-228 | 1.44E-01 | 4.65E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | BE-7 | 7.00E-01 | 1.57E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | CS-134 | <LLD | | 2.19E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | CS-137 | <LLD | | 2.03E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | I-131 | <LLD | | 2.10E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | K-40 | 1.98E+00 | 3.40E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | DOGWOOD | 519.4 | RA-226 | 3.29E-01 | 3.14E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | WAX MYRTLE | 367 | BE-7 | 6.81E-01 | 3.23E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | WAX MYRTLE | 367 | CS-134 | <LLD | | 3.35E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | WAX MYRTLE | 367 | CS-137 | 1.12E-01 | 3.47E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | WAX MYRTLE | 367 | I-131 | <LLD | | 4.47E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 6/3/2005 | WAX MYRTLE | 367 | K-40 | 1.95E+00 | 5.36E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | CHERRY | 421.6 | BE-7 | 4.01E-01 | 1.65E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | CHERRY | 421.6 | BI-214 | 8.03E-02 | 3.59E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | CHERRY | 421.6 | CS-134 | <LLD | | 2.22E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | CHERRY | 421.6 | CS-137 | <LLD | | 2.16E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | CHERRY | 421.6 | I-131 | <LLD | | 2.88E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | CHERRY | 421.6 | K-40 | 3.14E+00 | 4.33E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | AC-228 | 2.08E-01 | 9.17E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | BE-7 | 1.00E+00 | 2.08E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | BI-214 | 5.36E-02 | 4.49E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | CS-134 | <LLD | | 2.46E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | CS-137 | <LLD | | 2.31E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | I-131 | <LLD | | 3.12E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | K-40 | 3.36E+00 | 4.48E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | DOGWOOD | 569.9 | PB-214 | 5.04E-02 | 2.62E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | WAX MYRTLE | 443.3 | BE-7 | 3.75E-01 | 1.85E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | WAX MYRTLE | 443.3 | CS-134 | <LLD | | 2.81E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | WAX MYRTLE | 443.3 | CS-137 | <LLD | | 2.65E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | WAX MYRTLE | 443.3 | I-131 | <LLD | | 3.81E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 7/1/2005 | WAX MYRTLE | 443.3 | K-40 | 2.67E+00 | 5.08E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | BE-7 | 5.38E-01 | 1.69E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | BI-214 | 6.10E-02 | 3.81E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | CS-134 | <LLD | | 1.85E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | CS-137 | <LLD | | 1.99E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | I-131 | <LLD | | 2.17E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | K-40 | 2.60E+00 | 4.21E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | CHERRY | 465.7 | PB-214 | 3.70E-02 | 3.09E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | SASSAFRAS | 487.5 | BE-7 | 1.02E+00 | 2.02E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | SASSAFRAS | 487.5 | CS-134 | <LLD | | 2.69E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | SASSAFRAS | 487.5 | CS-137 | 1.09E-01 | 3.08E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | SASSAFRAS | 487.5 | I-131 | <LLD | | 2.90E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | SASSAFRAS | 487.5 | K-40 | 3.30E+00 | 5.25E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | SASSAFRAS | 487.5 | PB-212 | 3.24E-02 | 2.68E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | WAX MYRTLE | 471.3 | BE-7 | 9.50E-01 | 1.91E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | WAX MYRTLE | 471.3 | CS-134 | <LLD | | 2.29E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | WAX MYRTLE | 471.3 | CS-137 | <LLD | | 2.38E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | WAX MYRTLE | 471.3 | I-131 | <LLD | | 1.94E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 8/6/2005 | WAX MYRTLE | 471.3 | K-40 | 2.03E+00 | 3.71E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | CHERRY | 451.5 | BE-7 | 8.42E-01 | 2.11E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | CHERRY | 451.5 | CS-134 | <LLD | | 2.97E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | CHERRY | 451.5 | CS-137 | <LLD | | 2.64E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | CHERRY | 451.5 | I-131 | <LLD | | 3.49E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | CHERRY | 451.5 | K-40 | 3.98E+00 | 5.39E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | SASSAFRAS | 454.7 | BE-7 | 1.85E+00 | 2.56E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | SASSAFRAS | 454.7 | CS-134 | <LLD | | 2.99E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | SASSAFRAS | 454.7 | CS-137 | <LLD | | 2.70E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | SASSAFRAS | 454.7 | I-131 | <LLD | | 3.12E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | SASSAFRAS | 454.7 | K-40 | 1.89E+00 | 4.56E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | WAX MYRTLE | 493.3 | BE-7 | 1.07E+00 | 2.02E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | WAX MYRTLE | 493.3 | BI-214 | 3.85E-02 | 3.35E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | WAX MYRTLE | 493.3 | CS-134 | <LLD | | 1.92E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | WAX MYRTLE | 493.3 | CS-137 | <LLD | | 1.87E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | WAX MYRTLE | 493.3 | I-131 | <LLD | | 2.28E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 9/1/2005 | WAX MYRTLE | 493.3 | K-40 | 1.93E+00 | 3.81E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | CHERRY | 473.8 | AC-228 | 1.09E-01 | 7.96E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | CHERRY | 473.8 | BE-7 | 4.90E-01 | 1.79E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | CHERRY | 473.8 | CS-134 | <LLD | | 1.96E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | CHERRY | 473.8 | CS-137 | <LLD | | 2.46E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | CHERRY | 473.8 | I-131 | <LLD | | 1.95E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | CHERRY | 473.8 | K-40 | 2.22E+00 | 3.62E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | SASSAFRAS | 466.4 | BE-7 | 1.05E+00 | 2.87E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | SASSAFRAS | 466.4 | CS-134 | <LLD | | 2.44E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | SASSAFRAS | 466.4 | CS-137 | 9.90E-02 | 2.56E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | SASSAFRAS | 466.4 | I-131 | <LLD | | 3.15E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | SASSAFRAS | 466.4 | K-40 | 2.17E+00 | 4.29E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | AC-228 | 1.89E-01 | 7.80E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | BE-7 | 9.83E-01 | 2.13E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | BI-214 | 1.39E-01 | 5.25E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | CS-134 | <LLD | | 2.81E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | CS-137 | <LLD | | 2.97E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | I-131 | <LLD | | 2.58E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | K-40 | 2.00E+00 | 4.04E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 10/4/2005 | WAX MYRTLE | 501 | PB-214 | 1.38E-01 | 4.81E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | BE-7 | 1.24E+00 | 2.72E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | CS-134 | <LLD | | 3.29E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | CS-137 | <LLD | | 2.88E-02 |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | I-131 | <LLD | | 2.54E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | K-40 | 2.13E+00 | 4.55E-01 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | PB-212 | 4.30E-02 | 3.86E-02 | |
| 52 | 10 MI W - NEAR BETHUNE - CONTROL | 11/2/2005 | WAX MYRTLE | 451.7 | PB-214 | 6.13E-02 | 4.28E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | BE-7 | 2.19E-01 | 1.40E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | BI-214 | 7.37E-02 | 4.47E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | CS-134 | <LLD | | 2.38E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | CS-137 | <LLD | | 2.26E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | I-131 | <LLD | | 2.18E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | K-40 | 3.74E+00 | 4.77E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | PB-212 | 4.28E-02 | 2.67E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | PB-214 | 5.11E-02 | 3.59E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | CHERRY | 425.3 | TL-208 | 2.48E-02 | 2.10E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | BE-7 | 6.56E-01 | 2.45E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | BI-214 | 1.13E-01 | 5.60E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | CS-134 | <LLD | | 3.40E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | CS-137 | <LLD | | 3.31E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | I-131 | <LLD | | 2.82E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | K-40 | 2.95E+00 | 5.20E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | PB-212 | 9.66E-02 | 3.70E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | DOGWOOD | 428.5 | TL-208 | 4.35E-02 | 2.28E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | WAX MYRTLE | 463.9 | BE-7 | 8.89E-01 | 1.51E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | WAX MYRTLE | 463.9 | CS-134 | <LLD | | 2.04E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | WAX MYRTLE | 463.9 | CS-137 | <LLD | | 1.84E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | WAX MYRTLE | 463.9 | I-131 | <LLD | | 2.30E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 5/4/2005 | WAX MYRTLE | 463.9 | K-40 | 3.05E+00 | 4.27E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | CHERRY | 408.5 | BE-7 | 4.40E-01 | 1.73E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | CHERRY | 408.5 | BI-214 | 7.40E-02 | 4.60E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | CHERRY | 408.5 | CS-134 | <LLD | | 2.21E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | CHERRY | 408.5 | CS-137 | 3.79E-02 | 2.15E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | CHERRY | 408.5 | I-131 | <LLD | | 2.43E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | CHERRY | 408.5 | K-40 | 2.64E+00 | 4.36E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | AC-228 | 1.86E-01 | 1.10E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | BE-7 | 1.30E+00 | 3.07E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | CS-134 | <LLD | | 4.02E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | CS-137 | <LLD | | 9.61E-03 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | I-131 | <LLD | | 4.82E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | K-40 | 1.63E+00 | 6.10E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | DOGWOOD | 356.6 | PB-212 | 6.28E-02 | 4.13E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | AC-228 | 1.00E-01 | 8.92E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | BE-7 | 9.45E-01 | 2.33E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | CS-134 | <LLD | | 2.50E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | CS-137 | <LLD | | 3.18E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | I-131 | <LLD | | 4.05E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | K-40 | 2.09E+00 | 5.10E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 6/3/2005 | WAX MYRTLE | 413 | PB-214 | 6.56E-02 | 5.07E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | CHERRY | 477.2 | BE-7 | 5.05E-01 | 1.58E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | CHERRY | 477.2 | CS-134 | <LLD | | 2.62E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | CHERRY | 477.2 | CS-137 | <LLD | | 2.69E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | CHERRY | 477.2 | I-131 | <LLD | | 3.15E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | CHERRY | 477.2 | K-40 | 3.78E+00 | 5.78E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | AC-228 | 2.35E-01 | 7.25E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | BE-7 | 1.37E+00 | 2.07E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | BI-214 | 5.57E-02 | 4.59E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | CS-134 | <LLD | | 2.51E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | CS-137 | <LLD | | 2.25E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | I-131 | <LLD | | 2.65E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | K-40 | 1.44E+00 | 3.02E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | PB-212 | 1.01E-01 | 3.89E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | PB-214 | 7.50E-02 | 3.36E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | RA-226 | 4.62E-01 | 4.17E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | DOGWOOD | 466.8 | TL-208 | 5.57E-02 | 2.44E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | WAX MYRTLE | 423.3 | BE-7 | 1.58E+00 | 2.89E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | WAX MYRTLE | 423.3 | CS-134 | <LLD | | 2.84E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | WAX MYRTLE | 423.3 | CS-137 | 6.40E-02 | 2.83E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | WAX MYRTLE | 423.3 | I-131 | <LLD | | 3.97E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 7/1/2005 | WAX MYRTLE | 423.3 | K-40 | 2.35E+00 | 5.12E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | AC-228 | 2.31E-01 | 1.01E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | BE-7 | 5.12E-01 | 2.20E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | BI-214 | 1.02E-01 | 6.27E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | CS-134 | <LLD | | 2.80E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | CS-137 | <LLD | | 3.04E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | I-131 | <LLD | | 3.00E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | K-40 | 3.06E+00 | 5.54E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | CHERRY | 437.8 | PB-212 | 5.07E-02 | 3.32E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | SASSAFRAS | 502.2 | BE-7 | 9.76E-01 | 1.75E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | SASSAFRAS | 502.2 | CS-134 | <LLD | | 1.59E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | SASSAFRAS | 502.2 | CS-137 | <LLD | | 1.92E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | SASSAFRAS | 502.2 | I-131 | <LLD | | 1.76E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | SASSAFRAS | 502.2 | K-40 | 2.19E+00 | 3.53E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | SASSAFRAS | 502.2 | TL-208 | 1.80E-02 | 1.64E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | WAX MYRTLE | 438.8 | BE-7 | 1.93E+00 | 3.03E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | WAX MYRTLE | 438.8 | CS-134 | <LLD | | 2.90E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | WAX MYRTLE | 438.8 | CS-137 | <LLD | | 2.74E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | WAX MYRTLE | 438.8 | I-131 | <LLD | | 3.07E+01 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 8/6/2005 | WAX MYRTLE | 438.8 | K-40 | 1.52E+00 | 5.15E-01 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | CHERRY | 496.1 | AC-228 | 9.95E-02 | 7.60E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | CHERRY | 496.1 | BE-7 | 1.43E-01 | 1.30E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | CHERRY | 496.1 | CS-134 | <LLD | | 1.83E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | CHERRY | 496.1 | CS-137 | <LLD | | 2.24E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | CHERRY | 496.1 | I-131 | <LLD | | 2.54E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | CHERRY | 496.1 | K-40 | 4.05E+00 | 4.82E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | AC-228 | 1.03E-01 | 6.19E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | BE-7 | 8.20E-01 | 1.71E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | CS-134 | <LLD | | 2.62E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | CS-137 | <LLD | | 2.12E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | I-131 | <LLD | | 2.48E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | K-40 | 1.64E+00 | 3.97E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | SASSAFRAS | 448.9 | PB-212 | 3.10E-02 | 2.11E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | WAX MYRTLE | 445.9 | AC-228 | 1.22E-01 | 7.65E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | WAX MYRTLE | 445.9 | BE-7 | 1.57E+00 | 2.78E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | WAX MYRTLE | 445.9 | CS-134 | <LLD | | 2.63E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | WAX MYRTLE | 445.9 | CS-137 | <LLD | | 2.35E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | WAX MYRTLE | 445.9 | I-131 | <LLD | | 3.82E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 9/1/2005 | WAX MYRTLE | 445.9 | K-40 | 1.59E+00 | 4.79E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | CHERRY | 483.2 | BE-7 | 4.87E-01 | 1.42E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | CHERRY | 483.2 | CS-134 | <LLD | | 2.05E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | CHERRY | 483.2 | CS-137 | <LLD | | 2.14E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | CHERRY | 483.2 | I-131 | <LLD | | 2.00E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | CHERRY | 483.2 | K-40 | 3.25E+00 | 4.72E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | CHERRY | 483.2 | PB-212 | 3.08E-02 | 2.65E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | AC-228 | 2.47E-01 | 9.60E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | BE-7 | 9.81E-01 | 2.26E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | BI-214 | 9.06E-02 | 4.69E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | CS-134 | <LLD | | 2.81E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | CS-137 | <LLD | | 3.37E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | I-131 | <LLD | | 3.18E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | K-40 | 2.08E+00 | 4.52E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | SASSAFRAS | 469.3 | TL-208 | 3.69E-02 | 2.17E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | AC-228 | 1.32E-01 | 7.04E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

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

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | BE-7 | 1.33E+00 | 2.28E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | CS-134 | <LLD | | 2.51E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | CS-137 | <LLD | | 3.00E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | I-131 | <LLD | | 2.73E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | K-40 | 1.69E+00 | 4.26E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 10/4/2005 | WAX MYRTLE | 507.5 | PB-212 | 3.62E-02 | 2.88E-02 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 11/2/2005 | WAX MYRTLE | 450.4 | BE-7 | 1.61E+00 | 2.92E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 11/2/2005 | WAX MYRTLE | 450.4 | CS-134 | <LLD | | 2.96E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 11/2/2005 | WAX MYRTLE | 450.4 | CS-137 | <LLD | | 2.77E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 11/2/2005 | WAX MYRTLE | 450.4 | I-131 | <LLD | | 2.74E-02 |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 11/2/2005 | WAX MYRTLE | 450.4 | K-40 | 2.31E+00 | 4.88E-01 | |
| 62 | NEAR THE SITE BOUNDARY 0.27 MILES IN SE SE | 11/2/2005 | WAX MYRTLE | 450.4 | PB-212 | 5.65E-02 | 3.22E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

*Media Type: Food Crop*
*Quantity: GRAMS (wet)*
*Concentration (Activity): pCi/gm wet*

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | SQUASH | 621.1 | CS-134 | <LLD | | 1.42E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | SQUASH | 621.1 | CS-137 | <LLD | | 1.29E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | SQUASH | 621.1 | I-131 | <LLD | | 1.87E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | SQUASH | 621.1 | K-40 | 1.14E+00 | 2.50E-01 | |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | TOMATOES | 950 | CS-134 | <LLD | | 1.26E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | TOMATOES | 950 | CS-137 | <LLD | | 1.29E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | TOMATOES | 950 | I-131 | <LLD | | 1.75E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 6/30/2005 | TOMATOES | 950 | K-40 | 1.52E+00 | 2.87E-01 | |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 11/2/2005 | COLLARDS | 508.2 | CS-134 | <LLD | | 1.80E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 11/2/2005 | COLLARDS | 508.2 | CS-137 | <LLD | | 2.33E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 11/2/2005 | COLLARDS | 508.2 | I-131 | <LLD | | 1.42E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 11/2/2005 | COLLARDS | 508.2 | K-40 | 2.85E+00 | 3.95E-01 | |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 11/2/2005 | COLLARDS | 508.2 | PB-214 | 5.42E-02 | 3.37E-02 | |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 12/5/2005 | COLLARDS | 521.6 | BI-214 | 5.49E-02 | 4.55E-02 | |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 12/5/2005 | COLLARDS | 521.6 | CS-134 | <LLD | | 2.37E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 12/5/2005 | COLLARDS | 521.6 | CS-137 | <LLD | | 2.12E-02 |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 12/5/2005 | COLLARDS | 521.6 | I-131 | <LLD | | 2.37E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

*Media Type: Food Crop*
*Quantity: GRAMS (wet)*
*Concentration (Activity): pCi/gm wet*

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 12/5/2005 | COLLARDS | 521.6 | K-40 | 2.66E+00 | 4.40E-01 | |
| 49 | 10.0 MI W OR GREATER THAN 5 MI FROM PLANT - | 12/5/2005 | COLLARDS | 521.6 | PB-214 | 5.14E-02 | 4.45E-02 | |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | SQUASH | 630.2 | CS-134 | <LLD | | 1.18E-02 |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | SQUASH | 630.2 | CS-137 | <LLD | | 1.19E-02 |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | SQUASH | 630.2 | I-131 | <LLD | | 2.04E-02 |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | SQUASH | 630.2 | K-40 | 1.36E+00 | 2.80E-01 | |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | TOMATOES | 831.5 | CS-134 | <LLD | | 1.26E-02 |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | TOMATOES | 831.5 | CS-137 | <LLD | | 1.63E-02 |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | TOMATOES | 831.5 | I-131 | <LLD | | 2.10E-02 |
| 58 | SITE VARIES FROM PLANT | 6/29/2005 | TOMATOES | 831.5 | K-40 | 2.46E+00 | 3.23E-01 | |
| 58 | SITE VARIES FROM PLANT | 11/1/2005 | COLLARDS | 522.4 | CS-134 | <LLD | | 1.58E-02 |
| 58 | SITE VARIES FROM PLANT | 11/1/2005 | COLLARDS | 522.4 | CS-137 | <LLD | | 2.07E-02 |
| 58 | SITE VARIES FROM PLANT | 11/1/2005 | COLLARDS | 522.4 | I-131 | <LLD | | 1.76E-02 |
| 58 | SITE VARIES FROM PLANT | 11/1/2005 | COLLARDS | 522.4 | K-40 | 2.91E+00 | 3.82E-01 | |
| 58 | SITE VARIES FROM PLANT | 12/5/2005 | COLLARDS | 567.4 | BE-7 | 2.68E-01 | 1.36E-01 | |
| 58 | SITE VARIES FROM PLANT | 12/5/2005 | COLLARDS | 567.4 | CS-134 | <LLD | | 2.22E-02 |
| 58 | SITE VARIES FROM PLANT | 12/5/2005 | COLLARDS | 567.4 | CS-137 | <LLD | | 2.17E-02 |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

*Media Type: Food Crop*
*Quantity: GRAMS (wet)*
*Concentration (Activity): pCi/gm wet*

*All Media*

| Sample Point | | Sample Date | Media | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|---|
| 58 | SITE VARIES FROM PLANT | 12/5/2005 | COLLARDS | 567.4 | I-131 | <LLD | | 1.91E-02 |
| 58 | SITE VARIES FROM PLANT | 12/5/2005 | COLLARDS | 567.4 | K-40 | 2.27E+00 | 3.87E-01 | |
| 58 | SITE VARIES FROM PLANT | 12/5/2005 | COLLARDS | 567.4 | PB-214 | 5.19E-02 | 3.56E-02 | |

# RNP Radiological Environmental Monitoring Gamma Isotopic Report

*Media Type: Fish - Free Swimmer*
*Quantity: Grams (wet)*
*Activity: pCi/gram (wet)*

| Sample Point | | Sample Date | Quantity | Isotope | Activity | 2 Sigma Error | LLD |
|---|---|---|---|---|---|---|---|
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 519.2 | CS-137 | 7.01E-02 | 2.14E-02 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 5/18/2005 | 519.2 | K-40 | 2.47E+00 | 5.74E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 479.4 | TH-234 | 6.37E-01 | 6.35E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 479.4 | K-40 | 2.75E+00 | 5.24E-01 | |
| 45 | SITE VARIES WITHIN LAKE ROBINSON | 11/15/2005 | 479.4 | CS-137 | 5.00E-02 | 1.56E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 559.8 | K-40 | 1.54E+00 | 5.82E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 559.8 | BI-214 | 5.84E-02 | 5.55E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 5/17/2005 | 559.8 | CS-137 | 7.28E-02 | 2.82E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 647 | CS-137 | 6.72E-02 | 1.85E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 647 | RA-226 | 4.34E-01 | 3.14E-01 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 647 | PB-214 | 4.71E-02 | 3.24E-02 | |
| 46 | SITE VARIES WITHIN PRESTWOOD LAKE | 11/14/2005 | 647 | K-40 | 3.08E+00 | 4.39E-01 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 527.3 | CS-137 | 4.42E-02 | 3.48E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 527.3 | K-40 | 2.29E+00 | 6.67E-01 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 527.3 | BI-214 | 1.16E-01 | 6.83E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 5/17/2005 | 527.3 | PB-214 | 1.09E-01 | 8.08E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 458.3 | CS-137 | 1.20E-01 | 2.92E-02 | |
| 47 | CONTROL STATION, ANY LAKE NOT INFLUENC | 11/14/2005 | 458.3 | K-40 | 2.49E+00 | 6.05E-01 | |

# 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 OR UNIT 2 DEEP WELL | 3/7/2005 | 1 | NO-ACT | | | |
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 6/27/2005 | 1 | NO-ACT | | | |
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 8/22/2005 | 1 | NO-ACT | | | |
| 42 | UNIT 1 OR UNIT 2 DEEP WELL | 11/28/2005 | 1 | PB-214 | 1.43E+01 | 8.29E+00 | |
| 64 | SC 23 @ BLACK CREEK | 3/7/2005 | 1 | K-40 | 2.93E+02 | 4.57E+01 | |
| 64 | SC 23 @ BLACK CREEK | 6/27/2005 | 1 | K-40 | 6.70E+01 | 4.47E+01 | |
| 64 | SC 23 @ BLACK CREEK | 8/22/2005 | 1 | NO-ACT | | | |
| 64 | SC 23 @ BLACK CREEK | 11/28/2005 | 1 | NO-ACT | | | |

# 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 | 3/2/2005 | 1463.3 | PB-212 | 5.71E-02 | 2.73E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 3/2/2005 | 1463.3 | BI-214 | 1.36E-01 | 3.78E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 3/2/2005 | 1463.3 | PB-214 | 1.47E-01 | 3.75E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 3/2/2005 | 1463.3 | TL-208 | 3.58E-02 | 1.93E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | PB-212 | 4.73E-01 | 7.30E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | BI-212 | 3.53E-01 | 2.46E-01 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | BI-214 | 4.85E-01 | 8.56E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | PB-214 | 4.31E-01 | 8.39E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | RA-226 | 1.06E+00 | 5.56E-01 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | TL-208 | 2.03E-01 | 3.72E-02 | |
| 44 | 1.6 MI NNE - SHADY REST CLUB, EAST SHORE | 8/12/2005 | 1522.3 | AC-228 | 5.52E-01 | 1.35E-01 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | RA-226 | 6.04E-01 | 4.99E-01 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | K-40 | 1.40E+00 | 3.44E-01 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | TL-208 | 1.61E-01 | 3.75E-02 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | BI-212 | 3.47E-01 | 1.78E-01 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | PB-212 | 3.83E-01 | 5.00E-02 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | PB-214 | 4.19E-01 | 7.33E-02 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | AC-228 | 4.35E-01 | 1.04E-01 | |
| 57 | ASH POND | 3/2/2005 | 1485.7 | BI-214 | 2.93E-01 | 7.81E-02 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | PB-212 | 9.10E-01 | 8.61E-02 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | BI-212 | 6.50E-01 | 3.26E-01 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | AC-228 | 8.78E-01 | 1.79E-01 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | TL-208 | 2.74E-01 | 6.11E-02 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | K-40 | 4.54E+00 | 7.10E-01 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | BE-7 | 8.06E-01 | 4.52E-01 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | BI-214 | 9.98E-01 | 1.40E-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 |
|---|---|---|---|---|---|---|---|
| 57 | ASH POND | 8/12/2005 | 1092.1 | PB-214 | 1.01E+00 | 1.15E-01 | |
| 57 | ASH POND | 8/12/2005 | 1092.1 | RA-226 | 2.72E+00 | 1.09E+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- | 1/21/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 2/17/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 3/17/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 4/18/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 5/16/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 6/17/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 7/18/2005 | 1.00 | K-40 | 7.50E+01 | 3.76E+01 | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 8/19/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 9/19/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 10/17/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 11/17/2005 | 1.00 | NO-ACT | | | |
| 40 | 0.6 MI ESE- BLACK CR AT OLD CAMDEN RD (#S- | 12/19/2005 | 1.00 | NO-ACT | | | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 1/21/2005 | 1.00 | K-40 | 6.46E+01 | 3.74E+01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 2/17/2005 | 1.00 | K-40 | 2.70E+02 | 3.09E+01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 3/17/2005 | 1.00 | K-40 | 6.12E+01 | 5.05E+01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 4/18/2005 | 1.00 | K-40 | 4.76E+01 | 3.75E+01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 4/18/2005 | 1.00 | TL-208 | 3.12E+00 | 2.07E+00 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/16/2005 | 1.00 | BI-214 | 5.69E+00 | 3.44E+00 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 5/16/2005 | 1.00 | K-40 | 5.34E+01 | 3.79E+01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 6/17/2005 | 1.00 | NO-ACT | | | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 7/18/2005 | 1.00 | NO-ACT | | | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 8/19/2005 | 1.00 | NO-ACT | | | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 9/19/2005 | 1.00 | NO-ACT | | | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 10/17/2005 | 1.00 | K-40 | 5.93E+01 | 3.68E+01 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 11/17/2005 | 1.00 | TL-208 | 2.12E+00 | 2.02E+00 | |
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 11/17/2005 | 1.00 | K-40 | 3.86E+01 | 3.63E+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 |
|---|---|---|---|---|---|---|---|
| 41 | 8.0 MI N - BLACK CREEK AT US 1 - CONTROL | 12/19/2005 | 1.00 | NO-ACT | | | |
| 57 | ASH POND | 1/21/2005 | 1.00 | NO-ACT | | | |
| 57 | ASH POND | 2/17/2005 | 1.00 | NO-ACT | | | |
| 57 | ASH POND | 3/17/2005 | 1.00 | K-40 | 2.87E+02 | 3.21E+01 | |
| 57 | ASH POND | 4/18/2005 | 1.00 | NO-ACT | | | |
| 57 | ASH POND | 5/16/2005 | 1.00 | NO-ACT | | | |
| 57 | ASH POND | 6/17/2005 | 1.00 | TL-208 | 3.28E+00 | 1.96E+00 | |
| 57 | ASH POND | 6/17/2005 | 1.00 | K-40 | 6.05E+01 | 4.40E+01 | |
| 57 | ASH POND | 7/18/2005 | 1.00 | TL-208 | 2.51E+00 | 2.08E+00 | |
| 57 | ASH POND | 7/18/2005 | 1.00 | K-40 | 6.82E+01 | 5.00E+01 | |
| 57 | ASH POND | 8/19/2005 | 1.00 | K-40 | 4.88E+01 | 4.57E+01 | |
| 57 | ASH POND | 9/19/2005 | 1.00 | TL-208 | 3.41E+00 | 2.58E+00 | |
| 57 | ASH POND | 9/19/2005 | 1.00 | K-40 | 1.12E+02 | 4.91E+01 | |
| 57 | ASH POND | 9/19/2005 | 1.00 | PB-212 | 4.02E+00 | 3.44E+00 | |
| 57 | ASH POND | 10/17/2005 | 1.00 | AC-228 | 6.82E+00 | 6.47E+00 | |
| 57 | ASH POND | 11/17/2005 | 1.00 | K-40 | 8.14E+01 | 4.60E+01 | |
| 57 | ASH POND | 11/17/2005 | 1.00 | TL-208 | 4.08E+00 | 2.40E+00 | |
| 57 | ASH POND | 12/19/2005 | 1.00 | NO-ACT | | | |