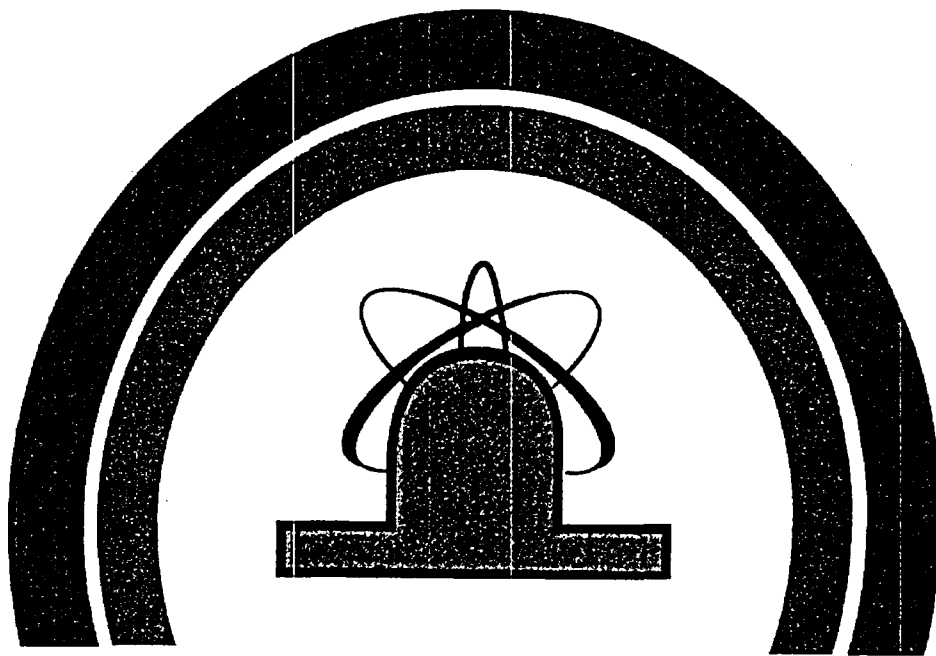


**RADIOLOGICAL
ENVIRONMENTAL OPERATING
REPORT**



2005

**HARRIS NUCLEAR PLANT
CAROLINA POWER & LIGHT COMPANY
DOING BUSINESS AS
PROGRESS ENERGY CAROLINAS, INC.**



APR 19 2006

SERIAL: HNP-06-051

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

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/LICENSE NO. NPF-63
ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Ladies and Gentlemen:

In accordance with Technical Specification 6.9.1.3 for the Harris Nuclear Plant, Carolina Power & Light Company, doing business as Progress Energy Carolinas, Inc., is providing the enclosed Annual Radiological Environmental Operating Report for 2005.

Additionally, a correction to Figures 9 and 10 from the Annual Radiological Environmental Operating Report for 2004 is being included with this submission. These figures contained a typographical error in that the title for each figure listed the unit of measure as pCi/cubic meter when the unit of measure is actually pCi/Liter.

If you have questions regarding this information, please contact me at (919) 362-3137.

Sincerely,

D. H. Corlett

Supervisor – Licensing/Regulatory Programs
Harris Nuclear Plant

DHC/mgw

Enclosure

- c: Mr. R. A. Musser (NRC Senior Resident Inspector, HNP)
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**HARRIS ENERGY &
ENVIRONMENTAL CENTER
CAROLINA POWER & LIGHT COMPANY
DOING BUSINESS AS
PROGRESS ENERGY CAROLINAS, INC.
NEW HILL, NORTH CAROLINA**

**RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
FOR THE
SHEARON HARRIS NUCLEAR POWER PLANT
JANUARY 1 THROUGH DECEMBER 31, 2005**

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EXECUTIVE SUMMARY

The Harris Nuclear Plant (HNP) is operated by Carolina Power & Light Company, doing business as Progress Energy Carolinas, Inc., under a license granted by the Nuclear Regulatory Commission. Provisions of the Nuclear Regulatory Commission's Regulatory Guide 4.8, Harris Nuclear Plant Technical Specifications, and the Harris Nuclear Plant Offsite Dose Calculation Manual (ODCM) establish the requirements of the Radiological Environmental Monitoring Program (REMP). 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 1982. Radiation and radioactivity in various environmental media have been monitored for more than 20 years, including 5 years prior to commencing operation. Monitoring is also provided for control locations, which would not be impacted by operations of the HNP. Using these control locations and data collected prior to operation allows comparison of data collected at locations near the HNP which could potentially be impacted by its operations.

Radiation levels show no significant change from pre-operational radiation levels.

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 and broadleaf vegetation monitoring results are similar to all the past years where no I-131 concentrations were detected. Broadleaf vegetation is in lieu of indicator milk samples, due to no milk-producing animal within five miles of the plant.
- Terrestrial vegetation includes various crops collected during a growing season and results indicate no detectable radioactivity.
- Aquatic organism monitoring includes fish and aquatic vegetation. The fish results indicate no detectable radioactivity; where as, the aquatic vegetation indicates detectable radioactivity in one out of three samples. Refer to the Interpretations and Conclusions section/ Aquatic Vegetation.
- Surface (and drinking) water results indicate no detectable gamma radionuclides including I-131, except for the I-131 noted in Interpretations and Conclusions section/ Drinking and Surface Water, which is performed by an I-131 separation analysis.
- Surface water (non-drinking water) results from Harris Lake show the presence of tritium, which is attributed to plant operation, but is well below the EPA reportable non-drinking water limit (30,000 pCi/Liter) and drinking water limit (20,000 pCi/Liter). Refer to the Interpretations and Conclusions section/ Surface Water.

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

The continued operation of the HNP has not contributed measurable radiation or the presence of gamma radioactivity, with the exception of Harris Lake bottom sediment and aquatic vegetation, in the environmental monitoring program. The Harris Lake Surface water samples revealed tritium concentrations that are well within the applicable regulatory limits.

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

PURPOSE AND REQUIREMENTS FOR THE RADIOLOGICAL MONITORING PROGRAM

The operation of a nuclear generating station may increase background radiation by a small fraction. 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 (surveillances) is to measure accumulation of radioactivity in the environments, to determine whether this radioactivity is the result of operation of HNP, and to assess the potential dose to the off-site population based on the cumulative measurements of radioactivity of plant origin. Radiological monitoring programs provide an additional verification of the radiological controls of nuclear generating stations.

The HNP radiological monitoring program was established in 1982 and has continued to collect samples and evaluate them for over 20 years.

Requirements are established for the radiological monitoring program with the following:

- Technical Specifications
- Off-Site Dose Calculation Manual (ODCM)
- Various procedures

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

- NRC Regulatory Guide 1.109
- NRC Regulatory Guide 4.13
- NRC Regulatory Guide 4.15

General Site Description

The Harris Nuclear Plant consists of a pressurized water reactor with a net output of approximately 900 MWe (Mega Watts electric). Commercial production was initiated on January 3, 1987. HNP is located in southwest Wake County, North Carolina. The site is along U.S. route 1 approximately sixteen (16) miles southwest of Raleigh, North Carolina and is displayed on the map of central North Carolina (Figure 1). The site is also approximately fifteen (15) miles northeast of Sanford, North Carolina. The nearest community is New Hill, which is north of the site.

Harris Lake is adjacent to the plant itself and is the source of cooling tower makeup water. The lake was impounded in the construction of Harris Plant. The lake is fed by Buckhorn Creek and is approximately 4,000 acres in area. The main dam is approximately 4.7 miles south of the site. The primary discharges to Harris Lake from the plant are surface runoff, cooling tower blow down, and radiological waste process systems.

Fishing, boating, and swimming are popular activities on Harris Lake and other nearby lakes. Carolina Power & Light Company, doing business as Progress Energy Carolinas, Inc., encourages the recreational use of the lake, Harris Lake County Park, and the adjoining lands through a variety of agreements with state and local government.

Within a five mile radius most of the land is wooded with only a few residences and limited agricultural activity. There are no non-company industrial structures or residences on the plant site. The chief use of the land is for production of timber and pulp fiber.

Within a ten mile radius the area is considered rural with significant populations in Apex, Holly Springs, and Fuquay-Varina. Currently these communities are experiencing significant growth.

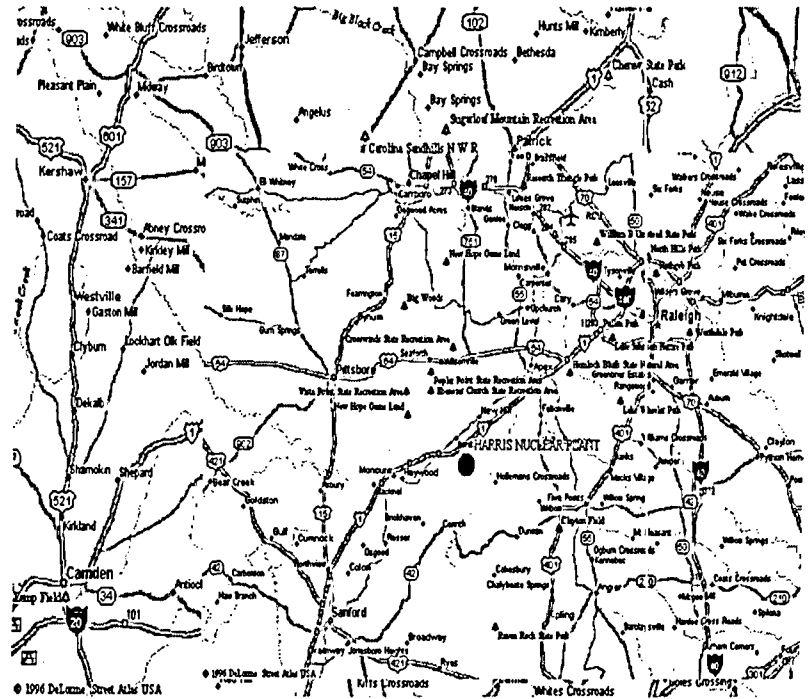


Figure 1: Location of Harris Nuclear Plant

Within a fifty-mile radius, much of the land is used in agricultural production with significant crops including corn, soybeans, and tobacco. Livestock is also an important component with significant production in cattle, hogs, poultry, and dairy products.

Consumption of drinking water, food crops, and fish are sample media that are examples of ingestion pathways for exposure.

RADIOLOGICAL MONITORING PROGRAM QUALITY ASSURANCE

A required component of the REMP is the Quality Assurance Program. The standards for the quality assurance program are established in the NRC Regulatory Guide 4.15, "Quality Assurance for Radiological Monitoring Programs." The purpose of the quality assurance program is "(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 the Analytics, Inc. Environmental Cross-Check 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 doing business 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 radiological emissions from the plant are airborne and liquid discharge. The following pathways are monitored: external dose, ingestion of radioactive materials, and the inhalation of radioactive material. Specific methods and different environmental media are required to assess each pathway. Below in Table 1 is a list of the media used to assess each of these pathways.

Table 1
Media Used to Assess Exposure Pathways to Man

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

Sampling Locations

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. A number of locations are selected as controls. Control stations are selected because they are unaffected by the operation of the plant. Sample locations may be seen in Figures 2a, 2b, and 3. A description of each sample location may be found in Tables 2 and 3.

Radiological Environmental Sampling Locations

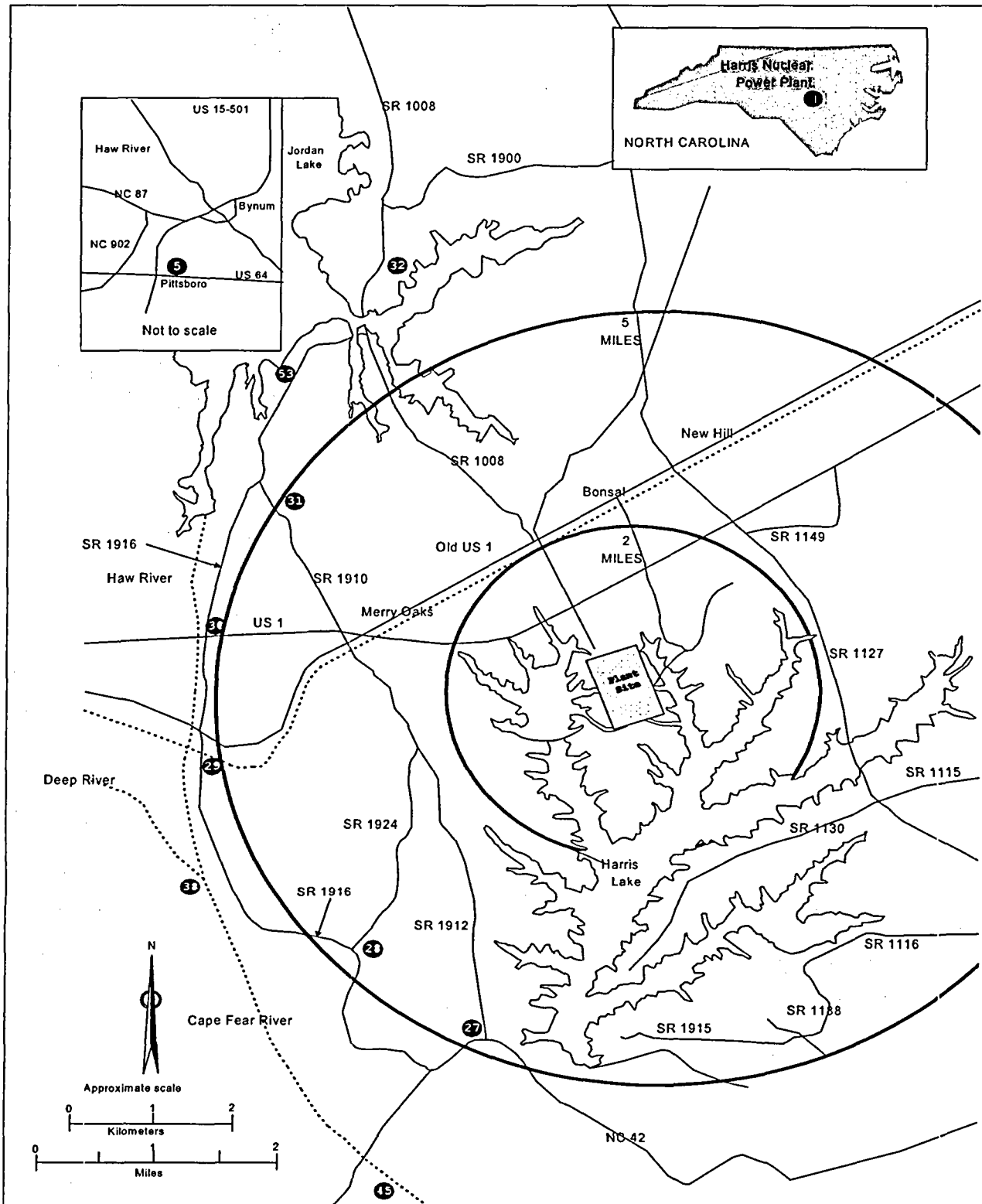


Figure 2a: Radiological Environmental Sampling Locations (Distant from Plant)

Radiological Environmental Sampling Locations

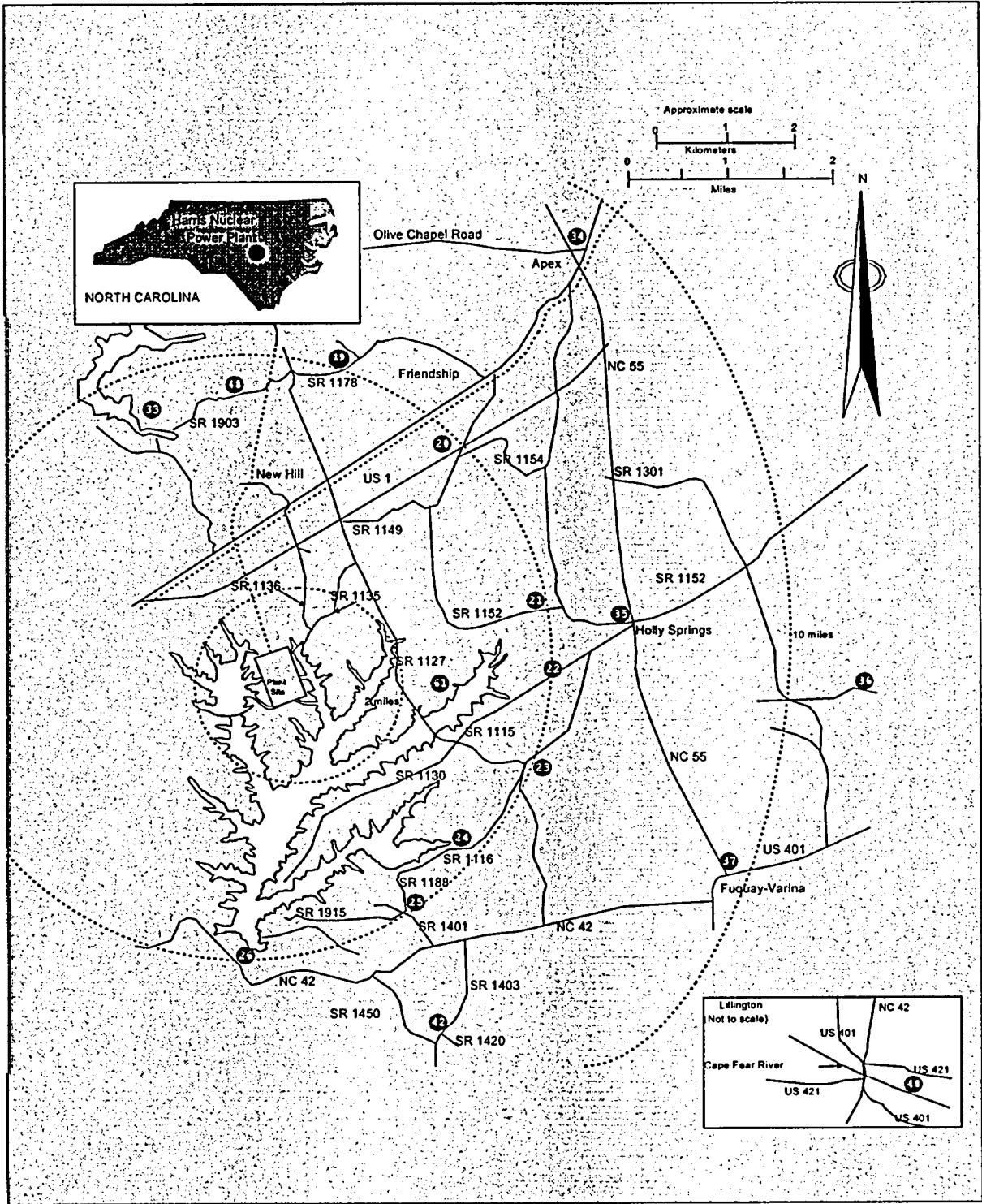


Figure 2b: Radiological Environmental Sampling Locations (Distant from Plant)

Radiological Environmental Sampling Locations

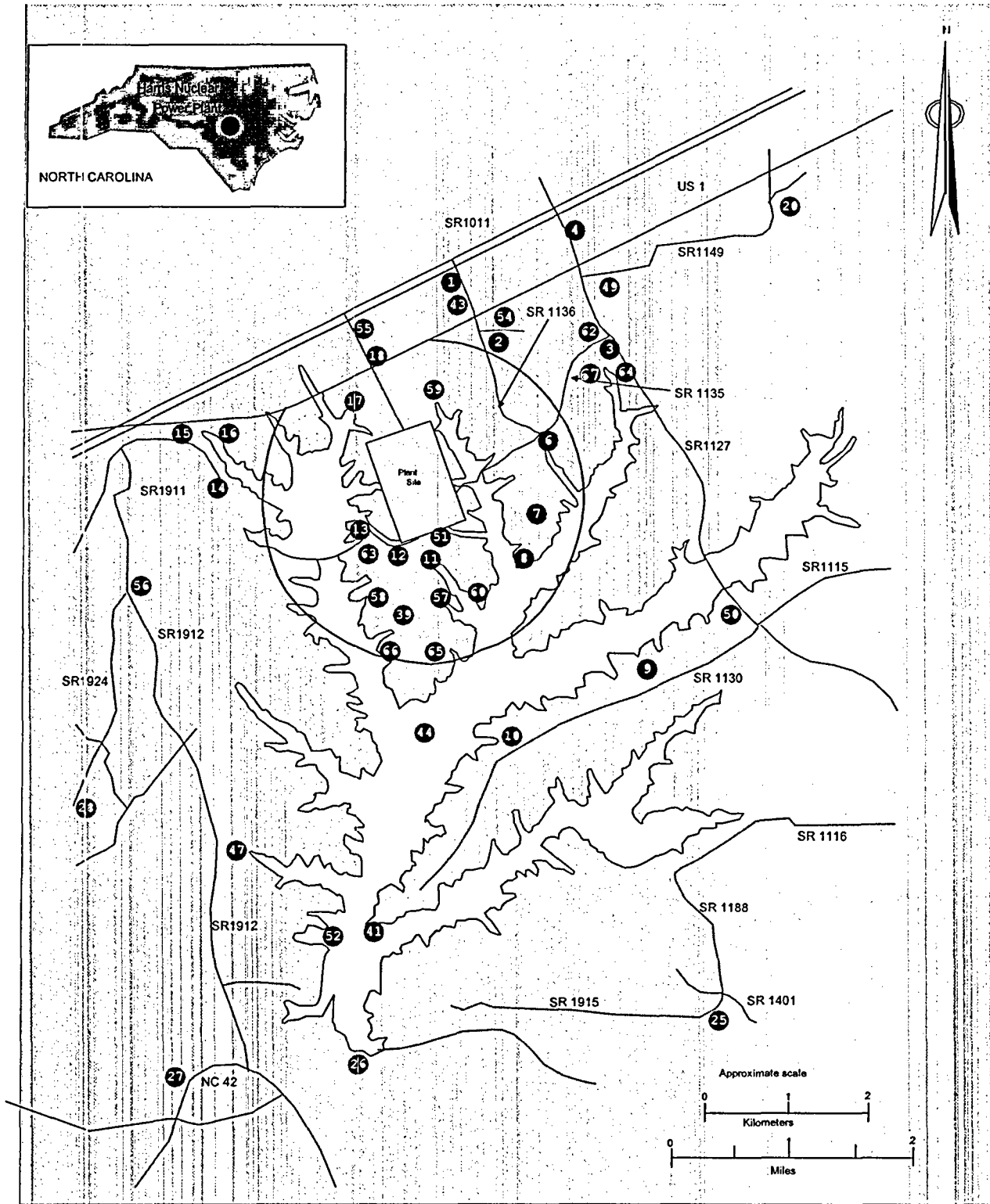


Figure 3: Radiological Environmental Sampling Locations (Nearest Plant)

Table 2

Radiological Environmental Sampling Locations Legend

STATION NUMBER	SAMPLE TYPE	REFER TO FIGURE	STATION NUMBER	SAMPLE TYPE	REFER TO FIGURE		
1	AP, AC, TL	3	34	TL	2b		
2	AP, AC, TL	3	35	TL	2b		
3	TL	3	36	TL	2b		
4	AP, AC, TL	3	37	TL	2b		
5	AP, AC, MK, FC, TL, BL	2a *	38	SW, DW	2a		
6	TL	3	39	GW	3		
7	TL	3	40	SW, DW	2b *		
8	TL	3	41	SS, AV	3		
9	TL	3	42	MK	2b		
10	TL	3	43	DELETED	3		
11	TL	3	44	FH	3		
12	TL	3	45	FH	2a		
13	TL	3	47	AP, AC	3		
14	TL	3	48	TL	2b		
15	TL	3	49	TL	3		
16	TL	3	50	TL	3		
17	TL	3	51	DW	3		
18	TL	3	52	SD	3		
19	TL	2b	53	TL	2a		
20	TL	2b, 3	54	FC	3		
21	TL	2b	55	FC	3		
22	TL	2b	56	TL	3		
23	TL	2b	57	GW	3		
24	TL	2b	58	GW	3		
25	TL	2b, 3	59	GW	3		
26	AP, AC, AV, SS, SW, TL	2b, 3	60	GW	3		
27	TL	2a, 3	61	AV	2b		
28	TL	2a, 3	62	FC	3		
29	TL	2a	63	TL	3		
30	TL	2a	64	FC	3		
31	TL	2a	65	BL	3		
32	TL	2a	66	BL	3		
33	TL	2b	67	TL	3		
AC	Air Cartridge	DW	Drinking Water	MK	Milk	TL	TLD
AP	Air Particulate	FC	Food Crop	SD	Bottom Sediment		
AV	Aquatic Vegetation	FH	Fish	SS	Shoreline Sediment		
BL	Broad Leaf Veg.	GW	Groundwater	SW	Surface Water		

* Approximate location

Table 3
Harris Nuclear Plant

Radiological Environmental Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Air Cartridge (AC)	1--2.6 miles N 2--1.4 miles NNE 4--3.1 miles NNE 5--13.4 miles WNW--Pittsboro* 26--4.7 miles S 47--3.4 miles SSW	As required by dust loading, but at least once per 7 days	(206 m ³)	Iodine
Air Particulate (AP)	1--2.6 miles N 2--1.4 miles NNE 4--3.1 miles NNE 5--13.4 miles WNW--Pittsboro* 26--4.7 miles S 47--3.4 miles SSW	As required by dust loading, but at least once per 7 days	(206 m ³)	Gross Beta (Weekly) Composite Gamma (Quarterly)
Fish (FH)	44--Site varies in Harris Lake 45--Site varies in Cape Fear River above Buckhorn Dam*	Semiannual	1 kg (wet) Free Swimmers & Bottom Feeders	Gamma
Drinking Water (DW)	38--6.2 miles WSW* 40--17.2 miles SSE Lillington 51--Water Treatment Plant (On Site)	2 Week Composite Monthly Composite	8 liters	I-131, Gamma Tritium Gross Beta
Ground Water (GW)	39--0.7 miles SSW 57--0.4 miles SSW 58--0.5 miles WSW 59--0.5 miles NNE 60--0.5 miles ESE	Quarterly	4 liters	Gamma Tritium
Milk (MK)	5--18.2 miles WNW Manco Dairy*	Semimonthly	8 liters	I-131 Gamma
Shoreline Sediment (SS)	26--4.6 miles S 41--3.8 miles S	Semiannual	500 grams	Gamma
Surface Water (SW)	26--4.7 miles S 38--6.2 miles WSW * 40--17.2 miles SSE Lillington	Weekly Monthly Composite	8 liters	I-131, Gamma Tritium Gross Beta
Aquatic Vegetation (AV)	26--4.7 miles S 41--3.8 miles S 61--2.5 miles E	Annually	500 grams	Gamma
Bottom Sediment (SD)	52--3.8 miles S	Semiannual	500 grams	Gamma
Food Crop (FC) or Food Products (FP)	5--18.0 miles NNW--Pittsboro* 54--1.7 miles NNE--Wilkins or Morris 55--2.0 miles NNW--L. L. Goodwin 62--2.3 miles NE -- Lee 64--1.8 miles ENE -- Michael	3 different kinds of broadleaf vegetation monthly during growing season	300 grams	Gamma
Broadleaf Vegetation (BL)	65--1.36 miles S -- Site Boundary 66--1.33 miles SSW -- Site Boundary 5 -- > 12 miles NNW -- Pittsboro*	Monthly	300 grams	Gamma

* Control Stations

Table 3 (Continued)

Harris Nuclear Plant

Radiological Environmental Monitoring Sampling Locations

Sample Type	Location & Description	Frequency	Sample Size	Analysis
Thermoluminescent Dosimetry (TL or TLD)	1 -- 2.6 miles N	Quarterly	Not Applicable	TLD Reading
	2 -- 1.4 miles NNE			
	3 -- 1.9 miles ENE			
	4 -- 3.1 miles NNE			
	5 -- 13.4 miles WNW--Pittsboro*			
	6 -- 0.8 mile NE			
	7 -- 0.7 mile E			
	8 -- 0.6 mile ESE			
	9 -- 2.2 miles SE			
	10 -- 2.2 miles SSE			
	11 -- 0.6 mile S			
	12 -- 0.9 mile SSW			
	13 -- 0.7 mile WSW			
	14 -- 1.5 miles W			
	15 -- 2.0 miles W			
	16 -- 1.9 miles WNW			
	17 -- 1.5 miles NW			
	18 -- 1.4 miles NNW			
	19 -- 5.0 miles NNE			
	20 -- 4.5 miles NE			
	21 -- 4.8 miles ENE			
	22 -- 4.3 miles E			
	23 -- 4.8 miles ESE			
	24 -- 4.0 miles SE			
	25 -- 4.7 miles SSE			
	26 -- 4.7 miles S			
	27 -- 4.8 miles SW			
	28 -- 4.8 miles SSW			
	29 -- 5.7 miles WSW			
	30 -- 5.6 miles W			
	31 -- 4.7 miles WNW			
	32 -- 6.4 miles NNW			
	33 -- 4.5 miles NNW			
	34 -- 8.7 miles NE--Apex			
	35 -- 6.9 miles E--Holly Springs			
36 -- 10.9 miles E				
37 -- 9.2 miles ESE--Fuquay-Varina				
48 -- 4.5 miles N				
49 -- 2.5 miles NNE				
50 -- 2.6 miles ESE				
53 -- 5.8 miles NW				
56 -- 3.0 miles WSW				
63 -- 0.6 mile SW				
67 -- 1.2 miles ENE				

* Control Stations

SUMMARY OF RADIOLOGICAL MONITORING PROGRAM

This report presents the results of the Radiological Environmental Monitoring Program conducted during 2005 for the Harris Nuclear Plant and fulfills the reporting requirements of Technical Specifications 6.9.1.3 and ODCM E.3. The program was conducted in accordance with Operational Requirement 3.12.1 in the Off-Site Dose Calculation Manual (ODCM), and applicable procedures.

Approximately 1148 total samples of 13 different media types from approximately 897 indicator samples were compared to approximately 250 control samples. Control stations are locations that are unaffected by plant operations. In approximately 99 percent of the indicator samples there was no difference from the activities observed in the corresponding control samples.

Radioactivity in environmental samples attributed to plant operations in 2005 for which there is a potential dose pathway to the public is as follows:

Environmental Media	Radionuclide	Location of w/Highest Annual Mean	Activity and Occurrence	Maximum Individual Dose (mrem/yr)
Surface Water	H-3	Harris Lake	5,940 pCi/L (12/12)	No ingestion pathway. No dose calculated.
Fish	H-3	Harris Lake	See above. Assumes H-3 equilibrium between lake water and fish tissue.	0.01 Total Body

The radiological environmental data indicates that HNP operations in 2005 had no significant impact on the environment or public health and safety.

A statistical summary of all the data for 2005 has been compiled and summarized in Table 4.

The plant-derived activity detected within the scope of the Radiological Environmental Monitoring Program can be seen in the Data Summary Table 4 for 2005. No detectable tritium activity was observed at Lillington, N.C., located 17 miles downstream on the Cape Fear River, which is the first public drinking water (ingestion pathway) location below the Harris Lake discharge spillway. No plant-related gamma activity has been detected in fish collected from Harris Lake or in the water samples from Lillington, N.C.

The Harris Lake Bottom Sediment (SD) and the Aquatic Vegetation (AV) pose no radiological dose to the general public via this pathway due to the fact that the SD is not easily accessible and the AV is not an ingestion pathway. These samples are for long-term trends.

Table 4
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2005

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Air Cartridge (pCi/m ³)	I-131 312	6.8E-2	All less than LLD	N/A	All less than LLD	All less than LLD
Air Particulate (pCi/m ³)	Gross Beta 312	5.0E-3	2.05E-2 (260/260) 7.64E-3 – 3.63E-2	New Hill Near 1 st Baptist Church 3.1 miles NNE	2.14E-2 (52/52) 8.73E-3 – 3.63E-2	2.07E-2 (52/52) 1.02E-2 - 3.69E-2
	Gamma 24	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
Drinking Water ⁽⁴⁾ (pCi/l)	I-131 52	1.0E+0	All less than LLD	N/A	All less than LLD	3.64E-1 (1/26) Single Value
	Gross Beta 24	1.2E+0	4.95E+0 (12/12) 2.75E+0 – 7.04E+0	Lillington Cape Fear River 17.2 miles SSE	4.95E+0 (12/12) 2.75E+0 – 7.04E+0	4.86E+0 (12/12) 3.20E+0 – 6.76E+0
	Gamma 24	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
	Tritium 24	3.25E+2 ⁽⁶⁾	All less than LLD	N/A	All less than LLD	All less than LLD

**Table 4 (cont.)
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary**

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2005

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Fish Bottom-Feeders (pCi/g, wet)	Gamma 4	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
Free-Swimmers (pCi/g, wet)	Gamma 8	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
Food Crop (pCi/g, wet)	Gamma 49 ⁽³⁾	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
Broadleaf Vegetation (pCi/g, wet)	Gamma 48 ⁽³⁾	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
Aquatic Vegetation (pCi/g, wet)	Gamma 3 Co-60	3.6E-2	2.02E-2 (1/3) Single Value	Harris Lake Shoreline Mixing Zone Cooling Tower Blowdown 3.8 miles S	2.02E-2 (1/3) Single Value	No control

**Table 4 (cont.)
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary**

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2005

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Ground Water (pCi/l)	Gamma 20	Refer to Table 5	All less than LLD	N/A	All less than LLD	No control
	Tritium 20	3.25E+2 ⁽⁶⁾	5.76E+2 (4/20) 4.63E+2 – 7.23E+2	North Bank ESW Intake 0.5 mile WSW	5.76E+2 (4/4) 4.63E+2 – 7.23E+2	No control
Milk (pCi/l)	I-131 24	1.0E+0	N/A	N/A	N/A	All less than LLD
	Gamma 24	Refer to Table 5	N/A	N/A	N/A	All less than LLD
Shoreline Sediments (pCi/g, dry)	Gamma 4	Refer to Table 5	All less than LLD	N/A	All less than LLD	No Control
Bottom Sediment (pCi/g, dry)	Gamma 2	2.1E-1	1.76E-1 (2/2)	Harris Lake Cooling Tower Mixing Zone	1.76E-1 (2/2)	No Control
	Co-58		1.76E-1 – 1.77E-1	3.8 miles S	1.76E-1 – 1.77E-1	
	Co-60	1.9E-1	2.49E+0 (2/2) 2.18E+0 – 2.80E+0	Harris Lake Cooling Tower Mixing Zone 3.8 miles S	2.49E+0 (2/2) 2.18E+0 – 2.80E+0	No Control
	Cs-137	1.2 E-1	3.33E-1 (2/2) 3.17E-1 – 3.48E-1	Harris Lake Cooling Tower Mixing Zone 3.8 miles S	3.33E-1 (2/2) 3.17E-1 – 3.48E-1	No Control

**Table 4 (cont.)
Harris Nuclear Plant
Radiological Environmental Monitoring Program Data Summary**

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Number: STN 50-400
Calendar Year: 2005

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Typical Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾ Range	Location w/Highest Annual Mean		Control Locations Mean ⁽²⁾ Range
				Name, Distance, and Direction	Mean ⁽²⁾ Range	
Surface Water ⁽⁴⁾ (pCi/l)	I-131 52	1.0E+0	All less than LLD	N/A	All less than LLD	3.64E-1 (1/26) Single Value
	Gross Beta 36	1.2 E+0	4.20E+0 (24/24) 2.73E+0 - 7.04E+0	Lillington Cape Fear River 17.2 miles SSE	4.95E+0 (12/12) 2.75E+0 - 7.04E+0	4.86E+0 (12/12) 3.20E+0 - 6.76E+0
	Gamma 36	Refer to Table 5	All less than LLD	N/A	All less than LLD	All less than LLD
	Tritium 36	3.25E+2 ⁽⁶⁾	5.94E+3 (12/24) 5.03E+3 - 7.15E+3	Harris Lake Spillway 4.7 miles S	5.94E+3 (12/24) 5.03E+3 - 7.15E+3	All less than LLD
Direct Radiation (mR/qtr) ⁽⁵⁾	TLD 175 ⁽³⁾		1.18E+1 (171/172) 9.20E+0 - 1.57E+1	Fuquay Varina at Old CP&L Office 9.2 miles ESE	1.47E+1 (4/4) 1.31E+1 - 1.57E+1	1.54E+1 (4/4) 1.45E+1 - 1.65E+1

FOOTNOTES TO TABLE 4

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and 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 all samples with detectable activities at specific locations are indicated in parentheses.
3. Missing samples are discussed in Missed Surveillances.
4. Although quarterly composite samples are required, monthly composite samples are used to provide more frequent and sensitive analyses.
5. TLD exposure is reported in milliroentgen (mR) per 90-day period (quarter) beginning in 1995. This is the exposure standard used to compare data to the Nuclear Regulatory Commission (NRC).
6. Tritium Lower Limit of Detection (LLD) was lowered to $3.25 \text{ E}+2$ pCi/L in June 1996 for samples that typically demonstrate activity less than the LLD. The LLD was lowered at the request of Carolina Power & Light Company doing business as Progress Energy Carolinas, Inc. in order to maintain comparable LLD and result values with the NC Division of Radiation Protection (NCDRP) laboratory. Other samples that typically exhibit activity greater than the LLD have a tritium Lower Limit of Detection (LLD) of $1.0 \text{ E}+3$ pCi/L.

INTERPRETATIONS AND CONCLUSIONS

Air Monitoring

All 312 air cartridge (AC) samples from indicator and control stations had I-131 concentrations less than the typical LLD of $6.8\text{E-}2$ pCi/m³. I-131 was detected in air samples for a six-week period following the Chernobyl incident in April 1986. With this exception, no I-131 has been detected in air samples collected from 1987 through 2005, which is the entire operating history of the plant.

For the period of January 1, 2005 to December 31, 2005; the gross beta activity was detectable in all airborne particulate (AP) samples, with acceptable runtime, from the five indicator locations. The 260 indicator samples had an average concentration of $2.05\text{E-}2$ pCi/m³, a value similar to or less than preoperational data of $2.00\text{E-}2$ pCi/m³. Similar gross beta activities were observed at the control location in Pittsboro, which had an average concentration of $2.07\text{E-}2$ pCi/m³ in 52 control samples. Figures 4 through 8 provide a graphic representation of the gross beta activity at the indicator locations compared to the control location for the year 2005. AP samples that exhibit an elevated gross beta activity typically have a gamma isotopic analysis done and the results indicate all natural gamma activity. No plant-related gamma activity was observed for any air particulates during 2005. These concentrations are typical of the natural environment and are not attributed to plant operations.

No plant-related gamma activity was detected in quarterly composite filter samples from either the indicator or control locations. Typical LLDs for air particulates are contained in Table 5.

Drinking Water

The 26 drinking water samples collected at the Lillington Municipal water supply and the 26 control samples collected from the Cape Fear River above the Buckhorn Dam contained less than detectable I-131 activity ($< 1.0\text{E+}0$ pCi/L) during 2005, except for one anomalous positive result from the control location (DW/SW-38 at Cape Fear) for I-131 during the composite period 11/28/05 (NCR # 178565). This control location is upstream of the plant, thus outside the

influence of the plant effluents. No I-131 activity was detected in any of the indicator drinking/surface water samples during the 11/28/05 composite period. No other detectable I-131 activity was detected in any of the 2005 composite samples. This has typically been the experience for the preoperational and operational period with the exception of 1986 when the fallout from Chernobyl was detected.

The average annual gross beta concentrations at the indicator and control locations were similar in concentrations of 4.95E+0 pCi/L and 4.86E+0 pCi/L, respectively. The preoperational average was 4.00E+0 pCi/L. These concentrations are attributed to the natural environment and are not attributed to plant operations. Figure 9 provides graphic representation of the gross beta activity during 2005 for Location 40 (Lillington) and Location 38 (control at Cape Fear).

Analyses for gamma-emitting radionuclides indicated all concentrations were less than the lower limit of detection for drinking water. Table 5 contains typical LLD values for gamma-emitting radionuclides in drinking water.

Tritium concentrations in the Lillington Municipal Water Supply samples were less than the lower limit of detection ($3.25 \text{ E}+2$ pCi/L) (see Footnotes to Table 4, Footnote 6).

Fish

Analyses for gamma-emitting radionuclides in four samples of bottom-feeding species (catfish) and in eight samples of free-swimming species (sunfish and largemouth bass) from the indicator and control locations revealed no detectable activity for 2005, other than naturally occurring nuclides. This is consistent with the data for 1989-2004. During the Chernobyl period, Cs-134, 137 were detected in both control and indicator samples.

Fish are assumed to be in equilibrium with the tritium concentration in the lake. The total body/organ dose to the maximum exposed individual due to tritium was calculated using Regulatory Guide 1.109, Rev.1, October 1977, Equation A-1, to be 0.013 mrem/year.

Equation A-1

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

where as:

- R_{aipj} = total body dose in mrem/yr of 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)
- D_{aipj} = ingestion dose factor for total body/organ of individual in U_{ap} in mrem/pCi (Reg. Guide 1.109 Table E-11, E-12, or E-13)

The Total Body/Organ dose is as follows:

	Child	Teenager	Adult
Consumption of fish kg/yr	6.9	16	21
Dose (Total Body/Organ) mrem/yr	0.008	0.010	0.013

The total body dose and organ dose, due to tritium in the fish, (ingestion dose factor - Reg. Guide 1.109 Table E-11, E-12, and E-13) for the maximum exposed individuals consuming 6.9 kg fish/yr. for a child, 16 kg fish/yr. for a teenager, and 21 kg fish/yr. for an adult are 0.008, 0.010, and 0.013 mrem/year respectively.

Milk/Broadleaf Vegetation

During 2005, as in all past years with the exception of the Chernobyl period, no I-131 concentrations were detected in control milk samples. Gamma analyses revealed no detectable radioactivity from plant operations. The only detectable gamma activity consistently identified in each milk sample was potassium-40 (K-40). This is a natural occurring nuclide in any organic material. The K-40 concentrations in the milk control samples range from 1.26E+3 pCi/L-1.77E+3 pCi/L. Other natural occurring nuclides are identified in some of the milk samples.

In May of 1997, the Maple Knoll Dairy (indicator MK-42 - located in the SSE sector) ceased operations. In lieu of the semimonthly milk samples, per HNP ODCM Table 3.12-1, broadleaf vegetation samples were collected in both the South (S) and SSW sectors.

Broadleaf sampling is conducted since no milk animals are available 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. Broadleaf vegetation sampling is accomplished by collecting monthly, three different species of samples, when available, at two off site locations (two indicator locations of the highest predicted annual average ground level D/Q) and at the control location (BL-5 in the NNW sector at greater than 12 miles). The highest predicted annual average ground level D/Q (ODCM Table A-1 through A-4) was at the site boundary in both the South sector at 1.36 miles (BL-65) and SSW sector at 1.33 miles (BL-66). The control location (BL-5) was introduced into the environmental sampling program for HNP in January 2004. The gamma analyses on the broadleaf vegetation did not detect any plant-related radioactivity in any of the broadleaf vegetation (Dogwood, Fig Leaf, Maple, and Sweetgum) in 2005.

Surface Water

Surface water samples were collected (weekly) and analyzed (bi-weekly) for I-131. Water samples collected during 2005 contained less than detectable I-131 activity ($< 1.0\text{E}+0$ pCi/L), except for one anomalous positive result from the control location (DW/SW-38 at Cape Fear) for I-131 during the composite period 11/28/05 (NCR # 178565). This control location is upstream of the plant, thus outside the influence of the plant effluents. No I-131 activity was detected in any of the indicator drinking/surface water samples during the 11/28/05 composite period.

Average gross beta concentrations at the indicator and control locations were $4.20\text{E}+0$ pCi/L and $4.86\text{E}+0$ pCi/L, respectively, in 2005, indicating no adverse influence from plant operations (See Figure 10).

Surface water samples were analyzed for gamma and tritium radioactivity. All concentrations of man-made gamma-emitters were less than their respective lower limits of detection (see Table 5).

The annual average tritium concentration in Harris Lake was $5.94\text{E}+3$ pCi/L with minimum and maximum values of $5.03\text{E}+3$ pCi/L and $7.15\text{E}+3$ pCi/L, respectively (see Figure 11). The

average Harris Lake tritium concentration showed an increase in tritium compared to the annual average of $4.20\text{E}+3$ pCi/L in 2004; however, the concentration remains well below regulatory limits. The tritium liquid release program is optimized by releasing liquid effluents during periods of high rainfall to minimize the impact of the tritium concentration in the lake.

Ground Water

Ground water samples are collected on site at HNP for gamma and tritium analysis. The measured concentrations of the gamma analyses were measured below their required Lower Limits of Detection (LLD) as specified in the Harris Plant ODCM (docket No. STN-50-400) in Table 4.12-1 titled "Detection Capabilities For Environmental Sample Analysis Lower Limit of Detection (LLD)" for the year 2005.

The measured tritium concentrations were below the required HNP ODCM Table 4.12-1 LLD for environmental samples. These limits are 2000 picocuries per Liter (pCi/L) for a drinking water pathway and 3000 pCi/L if no drinking water pathway exists. HNP administratively established a ground water tritium analysis LLD of 325 pCi/L, which is well below the requirements specified in the HNP ODCM.

The ground water tritium analysis determined that there was no detectable tritium concentration present based on the LLD specified in the HNP ODCM for 2005. Trace levels of tritium, below the 2000 pCi/L ODCM LLD, but above the HNP administrative LLD (325 pCi/L) were detected in ground water Location 58 (0.5 mile WSW Sector N Bank ESW Intake) (see Table 4 on page 16). Data trends indicate that the probable source of the tritium in location 58 is from Harris Lake. The ground water wells, located on site at HNP, are all abandoned wells and are not a water supply for drinking or irrigation; therefore, there is no radiological dose via this pathway.

Shoreline Sediment

Shoreline sediment samples were collected semiannually in 2005 from (1) opposite the discharge structure and (2) near the main dam. Gamma analyses of the shoreline sediments detected all

natural activity in the samples collected during 2005. No long-term trends are readily observed in these samples.

Bottom Sediment

The 2005 data shows Cobalt (Co) – 58 (1.76E-1 – 1.77E-1 pCi/gm dry), Cobalt (Co)-60 (2.18E-0 – 2.80E+0 pCi/gm dry), and Cesium (Cs)-137 (3.17E-1 - 3.48E-1 pCi/gm dry) activity in the indicator sample, which is sampled semiannually. The bottom sediment sample from Harris Lake poses no radiological dose to the general public via this pathway due to the fact that it is not easily accessible (i.e. bottom sediment is approximately forty to sixty feet under water). These samples are for long-term trends for liquid effluents.

Food Crops

In addition to milk sampling (or broadleaf vegetation sampling), a food product sampling program was maintained. Various crops were collected during the growing season(s), which continued year round. The species selected were primarily broad-leaf vegetables which are most sensitive to direct fallout of airborne radioactive particulates. Crops sampled in 2005 included broccoli, cabbage, collards, cucumbers, eggplants, mustard greens, okra, squash, tomatoes, and turnips and greens. Gamma analyses of the food crops detected no plant-related activity in 31 samples from indicator locations and 17 samples from control locations collected in 2005.

Aquatic Vegetation

The 2005 data shows that there were three aquatic vegetation indicator samples collected from Harris Lake, which are sampled annually. The aquatic vegetation samples from Harris Lake pose no radiological dose to the general public by the ingestion pathway. Gamma analyses of the aquatic vegetation detected Cobalt (Co)-60 (2.02E-2 pCi/gm wet, Single Value) in one out of the three indicator samples collected during 2005 (see Table 4). No long-term trends are readily observed in these samples.

External Radiation Exposure

Thermoluminescent dosimeters (TLDs) were used to monitor ambient radiation exposures in the plant environs. The average quarterly exposure at the indicator and control locations was 11.8 mR and 15.4 mR, respectively. The highest indicator location was 9.2 miles ESE of the plant (Fuquay Varina at the old CP&L office) and its average was 14.7 mR/qtr. The differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations.

Comparison of the quarterly TLD exposure within approximately 2 miles (inner ring) of the plant with that at approximately 5 miles (outer ring) is presented in Figure 12. These data illustrate that the quarterly inner ring TLD exposures are slightly less than the quarterly outer ring TLD exposures (differences range from 0.20 mR to 0.45 mR).

MISSED SURVEILLANCES

Air Cartridge and Air Particulates

Any REMP weekly air samples (Air Cartridge – AC or Air Particulate – AP) 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” will have no data reported. There was one missed surveillance for part of a week in December 2005 and January 2006.

Missed Samples:

- None for 2005

Missed Surveillances:

- AC/AP- 5; January 3, 2006 (December 2005 – January 2006) – Down time of 146.5 hours due to the failure of the UPS for the air sampler (NCR # 179945). The data for this surveillance period will be reported in the 2006 Annual Radiological Environmental Operating Report.

Food Crops

Food crops were not available from any garden location for sampling during June of 2005. During the remainder of the year, January through December, inadequate food crop samples (3 different kinds from each location) were available from each sample location in 2005. The farmers’ and individuals’ gardens at each sample location did not plant or produce three (3) different kinds of food crops in 2005; which was mostly due to seasonal unavailability, deer or other animals, lack of sufficient quantity planted or lack of a variety of crops planted, and lack of sufficient rainfall. One sample location has not been able to supply any food crops in 2005, location 62. Based on NCR # 141151, sampling of the gardens listed in the HNP ODCM goes above and beyond regulatory guidance since none of the gardens identified during the annual Land-Use Census, including the gardens identified in the HNP ODCM, are irrigated by water in which liquid plant wastes have been discharged. Therefore, the absence of food crops from these locations does not constitute a failure to monitor a pathway. Nuclear condition reports were written to document food crop unavailability (NCR # 155496, 161237, 169997, and 180634).

Milk / Broad Leaf Vegetation

If milk sampling cannot be performed, then 3 different kinds of broad leaf vegetation nearest each of two different offsite locations of highest predicted annual average ground level D/Q shall be sampled. Broadleaf vegetation samples were not available for sampling due to seasonal unavailability during January, February, March, April, September, October, November, and December of 2005 (NCR # 159637, 169991, and 180633).

A late surveillance for broad leaf vegetation collection for October 2005 occurred, due to the use of the wrong document or version for the collection date. The broad leaf vegetation sample was collected on 10/25/05 (NCR # 174191).

Drinking / Surface Water

DW/ SW- 40 (May 31, 2005) had a missed surveillance (NCR # 160311).

The Drinking / Surface Water environmental sample for May 31, 2005 was a missed surveillance due to the lack of notification by an external entity of a forth coming down time due to maintenance at the facility where the sample is taken (NCR # 160311). While sufficient volume was collected during the two week collection period to support analyses, sample aliquots were not able to be obtained each day as required by the ODCM.

TLDs

One TLD sample, out of a possible 176 TLD samples (indicator and control locations), was missing during 2005.

- TLD # 22 Fourth Quarter 2005

TLD # 22 was missing in the field due to a power pole replacement / upgrade that the TLD was attached to (NCR # 180189).

ANALYTICAL PROCEDURES

Gross Beta

Gross beta radioactivity measurements are made utilizing a Tennelec Low-Background Alpha/Beta Counting System. The LLD for air particulates is approximately 5.0 E-3 pCi/m^3 for HNP samples. Air particulate samples are mounted in 2-inch stainless steel planchets and counted directly.

Gross beta activity in drinking and surface waters is determined by evaporating 1 liter of the sample and counting a planchet on a Tennelec Low-Background Alpha/Beta Counting System for 50 minutes. Typical LLD for gross beta is 1.2 E+0 pCi/L .

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. Samples are counted for 200 minutes with an approximate LLD of 3.25 E+2 pCi/L .

Iodine-131

Iodine-131 airborne concentrations are analyzed by the intrinsic germanium (Ge) spectrometry systems. The cartridges are placed on the detector, and each charcoal cartridge is counted individually with an LLD of 6.8 E-2 pCi/m^3 .

Iodine-131 in milk and drinking water is determined by an instrumental method. Analysis involves passing 4 liters over an anion exchange resin and direct gamma analysis of the resin with an intrinsic Ge detector. The LLD using the Ge detector is approximately 1.0 E+0 pCi/L using 25,000-second and 40,000-second count times respectively.

Gamma Spectrometry

Gamma samples are analyzed by the 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 5 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 filter quarterly composites are placed in a Petri dish and analyzed directly for 7,000 seconds.

Liquid samples, except milk, are boiled down to a small volume, transferred to a Poly Bottle (PB-50 beaker) and analyzed groundwater samples for 7,000 seconds and others for 40,000 seconds. One-liter milk samples are analyzed in a 1-liter Marinelli beaker for 11,000 seconds.

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

Food crop, aquatic vegetation, and broadleaf vegetation samples are weighed as sampled and analyzed in a Marinelli beaker for 7,500 seconds.

Fish samples are cleaned, dressed, (raw, edible portions) and placed in a 1-liter Marinelli beaker for gamma analysis using a count time of 1,500 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 Carolina Power & Light Company's, doing business as Progress Energy Carolinas, Inc., 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, 107 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 107 analyses have been received from Analytics, Inc. The results shall be compared to the criteria established in the NRC Inspection Manual (Procedure 84750) for Radioactive Waste Treatment, Effluent, and Environmental monitoring.

All of the 107 analyses were within the acceptance criteria, except for one gross alpha result which fell outside the acceptable criteria (NCR # 162140). Any results that lie outside the ratio criteria will have an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors. Complete documentation of any evaluation will be available and provided to the NRC upon request.

Lower Limits of Detection

All samples analyzed met the LLD required by the ODCM, with the exception noted in Interpretations and Conclusions section/ Air Monitoring subsection.

Table 5
Typical Lower Limits of Detection (A Priori)
Gamma Spectrometry

Drinking Water/Surface Water Samples	
Isotope	LLD (pCi/L)
Mn-54	3
Co-58	4
Fe-59	9
Co-60	5
Zn-65	8
Zr-Nb-95	7 / 5
I-131	14
Cs-134	5
Cs-137	4
Ba-La-140	35 / 13
*I-131 (Separation Procedure)	*0.93
Air Particulates (Quarterly Composite)	
Isotope	LLD (pCi/m³)
Cs-134	0.002
Cs-137	0.002
Milk	
Isotope	LLD (pCi/L)
Cs-134	14
Cs-137	13
Ba-La-140	46 / 13
*I-131 (Separation Procedure)	*0.93
Sediment	
Isotope	LLD (pCi/kg dry)
Cs-134	148
Cs-137	120
Fish	
Isotope	LLD (pCi/kg wet)
Mn-54	97
Co-58	102
Fe-59	238
Co-60	127
Zn-65	251
Cs-134	128
Cs-137	115

* Instrumental analysis of resin concentrates of samples.

**Table 5 (Cont.)
 Typical Lower Limits of Detection (A Priori)
 Gamma Spectrometry**

Food Products and Vegetation	
Isotope	LLD (pCi/kg wet)
I-131	58
Cs-134	47
Cs-137	54
Aquatic Vegetation	
Isotope	LLD (pCi/kg wet)
I-131	38
Cs-134	27
Cs-137	30
Ground Water	
Isotope	LLD (pCi/L)
Mn-54	7
Co-58	11
Fe-59	17
Co-60	12
Zn-65	18
Zr-Nb-95	13 / 9
I-131	7
Cs-134	9
Cs-137	8
Ba-La-140	32 / 14

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 each year that identify how the surrounding lands are used by the population. A comprehensive census of the use of the land within a five-mile distance of the plant is completed during the growing season each year. This information is used for dose assessment and to identify changes to the stations sampled and the type of samples. These results ensure that the Radiological Environmental Monitoring Program (REMP) is based upon current data regarding human activity in the vicinity of the plant. Therefore, the purpose of the land-use census is to ensure the monitoring program is current, as well as provide data for the calculation of estimated radiation exposure.

The pathways evaluated are:

- Ingestion Pathway - Results from eating food crops 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 these are present and if not then broadleaf vegetation is collected in lieu of milk. The grass used to feed these animals may have incorporated or had deposited on it radioactive materials that can be transferred to the milk.
- Direct Radiation Exposure Pathway- Results from deposition of radioactive materials on the ground or from passage of these radioactive materials in the air.
- Inhalation Pathway- Results from breathing radioactive materials transported in the air.

Methodology

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

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

The primary methods are visual inspection from the roadside within the five (5) mile radius and personal contact with the individuals.

2005 Land-Use Census Results

The 2004 and 2005 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 6.

The nearest resident in each sector remained the same from 2004 to 2005. No gardens were located within 5 miles of the plant for the NE, E, S, WNW, and NW sectors. All the gardens located in 2005 were the same as 2004, except that the following garden where the previous year's survey found a garden at 2.6 miles in the ESE sector versus 4.6 miles in 2005. No meat animals were found in the NE, S, SSW, WNW, and NW sectors in 2005. All meat animals located in 2005 were the same as 2004, except for the meat animals found in the WSW sector at 4.5 miles versus 4.6 miles in 2004. The dairy in the SSE sector at 7.0 miles from the plant ceased operation in 1997 and there still remain no milk animals near the plant. Harris Lake County Park was included in the 2005 survey, even though there are not yet permanent residents on site. There are plans in the future for rangers and a campground.

Table 6

Land-Use Census Comparison (2004-2005)
Nearest Pathway (Miles)

SECTOR	RESIDENT		GARDEN		MEAT ANIMAL		MILK ANIMAL	
	2005	2004	2005	2004	2005	2004	2005	2004
N	2.2	2.2	2.2	2.2	2.2	2.2	---	---
NNE	1.9	1.9	1.9	1.9	1.9	1.9	---	---
NE	2.3	2.3	---	---	---	---	---	---
ENE	1.6	1.6	1.8	1.8	1.8	1.8	---	---
E	1.7	1.7	---	---	1.7	1.7	---	---
ESE	2.6	2.6	4.6*	2.6	4.6	4.6	---	---
SE	2.6	2.6	4.1	4.1	2.6	2.6	---	---
SSE	4.2	4.2	4.2	4.2	4.2	4.2	---	---
S	5.3	5.3	---	---	---	---	---	---
SSW	3.8	3.8	3.8	3.8	---	---	---	---
SW	2.9	2.9	2.9	2.9	2.9	2.9	---	---
WSW	4.5	4.5	4.5	4.5	4.5*	4.6	---	---
W	3.0	3.0	3.1	3.1	3.1	3.1	---	---
WNW	2.3	2.3	---	---	---	---	---	---
NW	2.4	2.4	---	---	---	---	---	---
NNW	1.6	1.6	2.0	2.0	2.0	2.0	---	---

* Represents a change from the previous year.

Sector and distance determined by Global Positioning System.

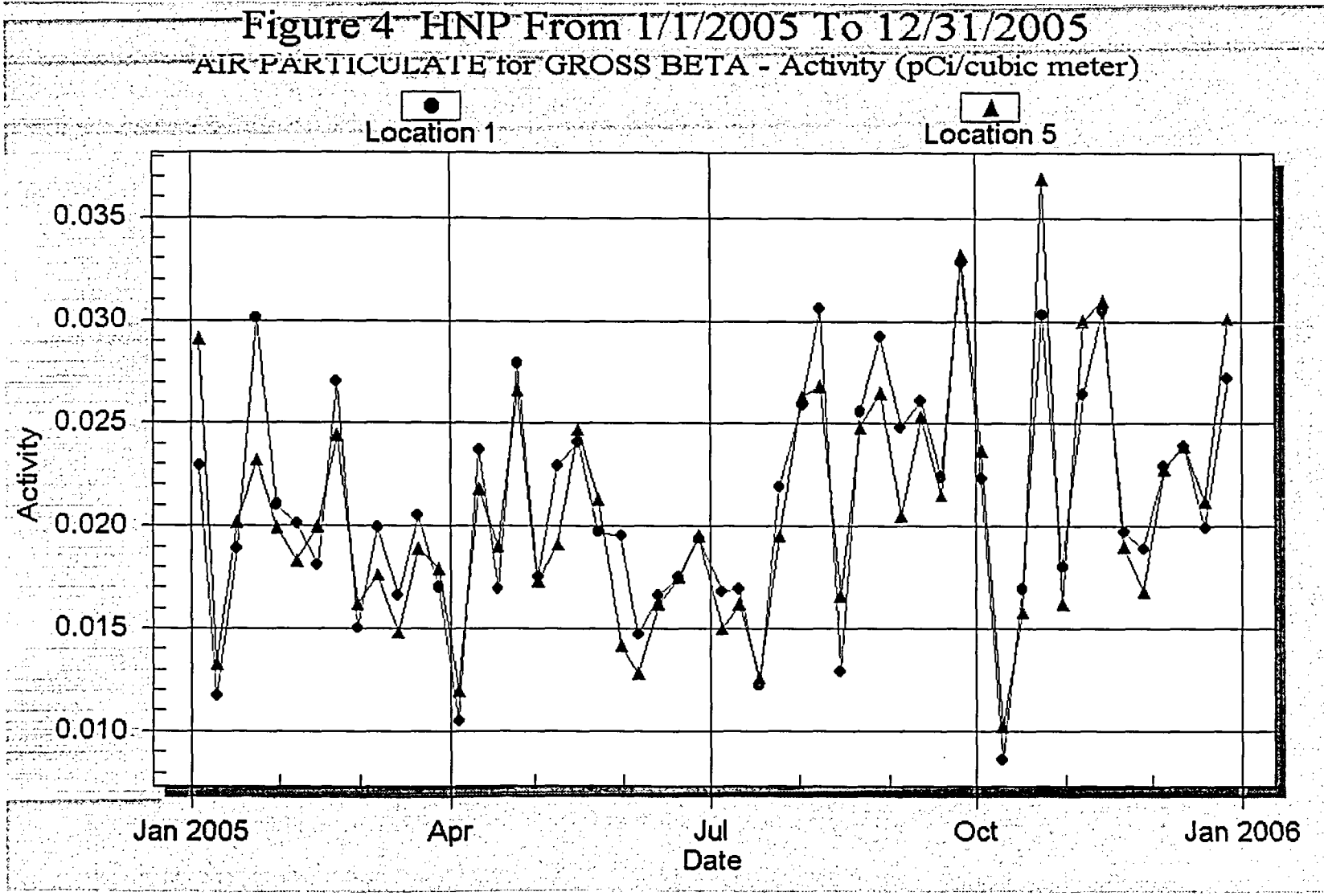


Figure 5 HNP From 1/1/2005 To 12/31/2005

AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

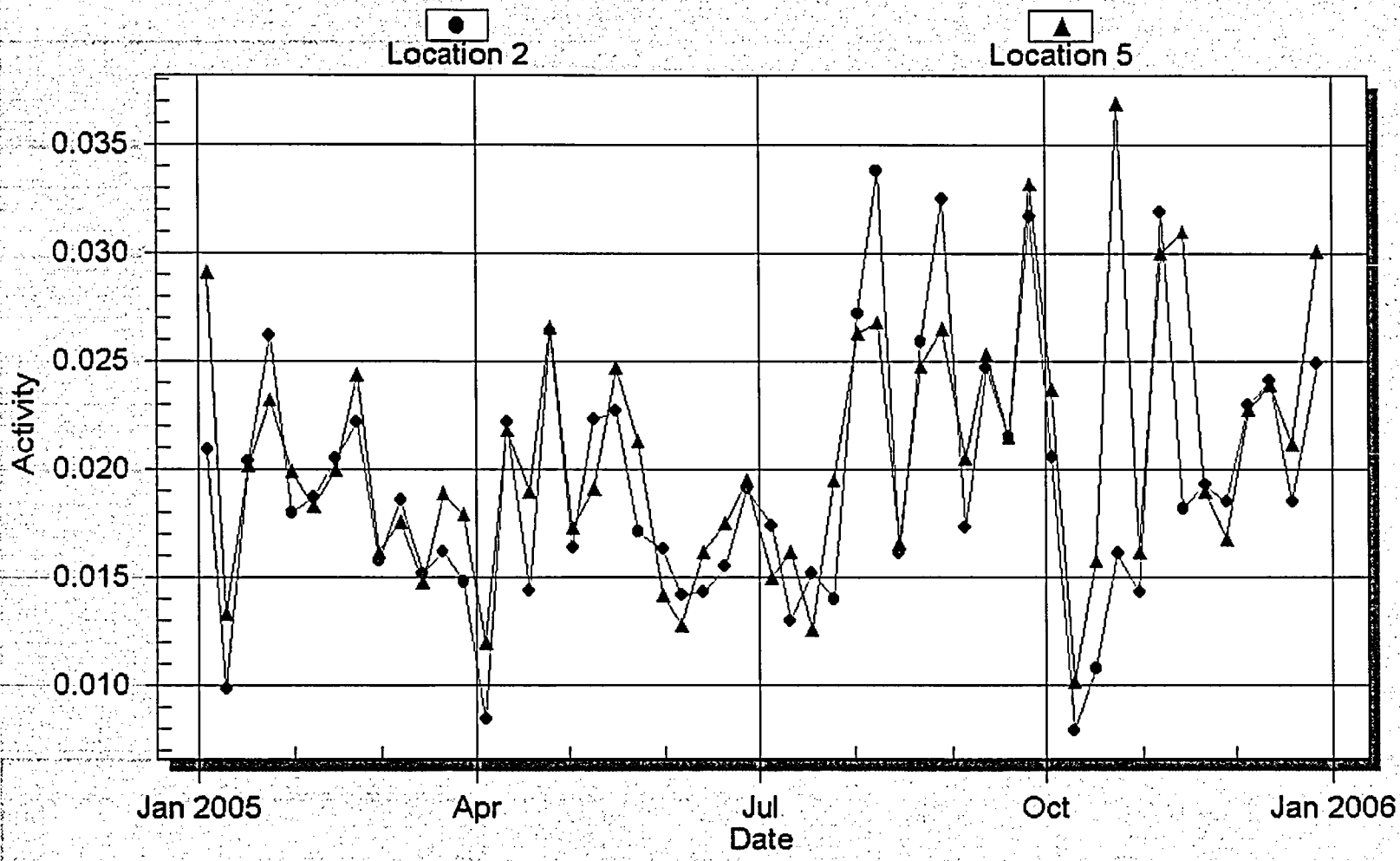


Figure 6 HNP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

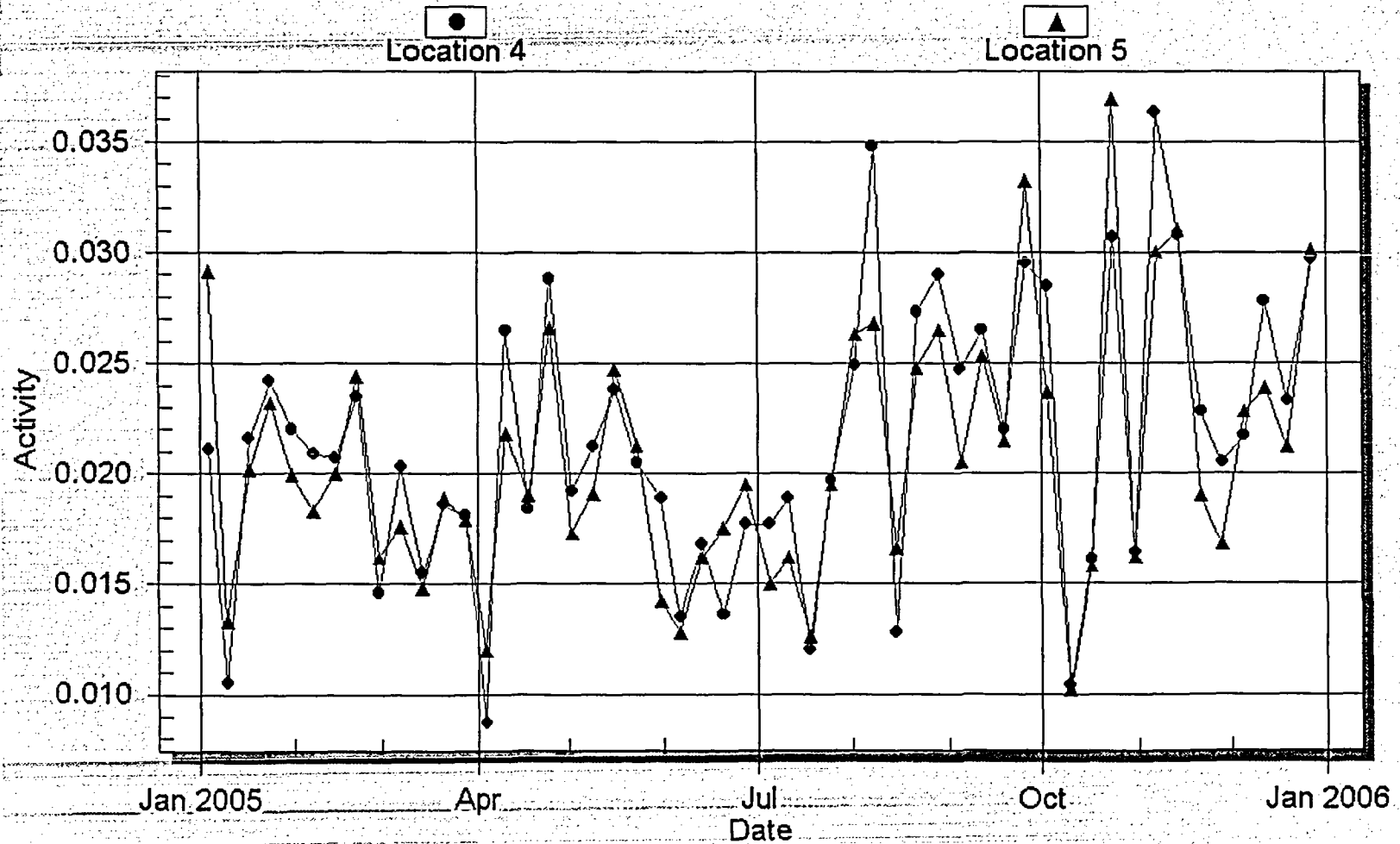


Figure 7 HNP From 1/1/2005 To 12/31/2005
AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

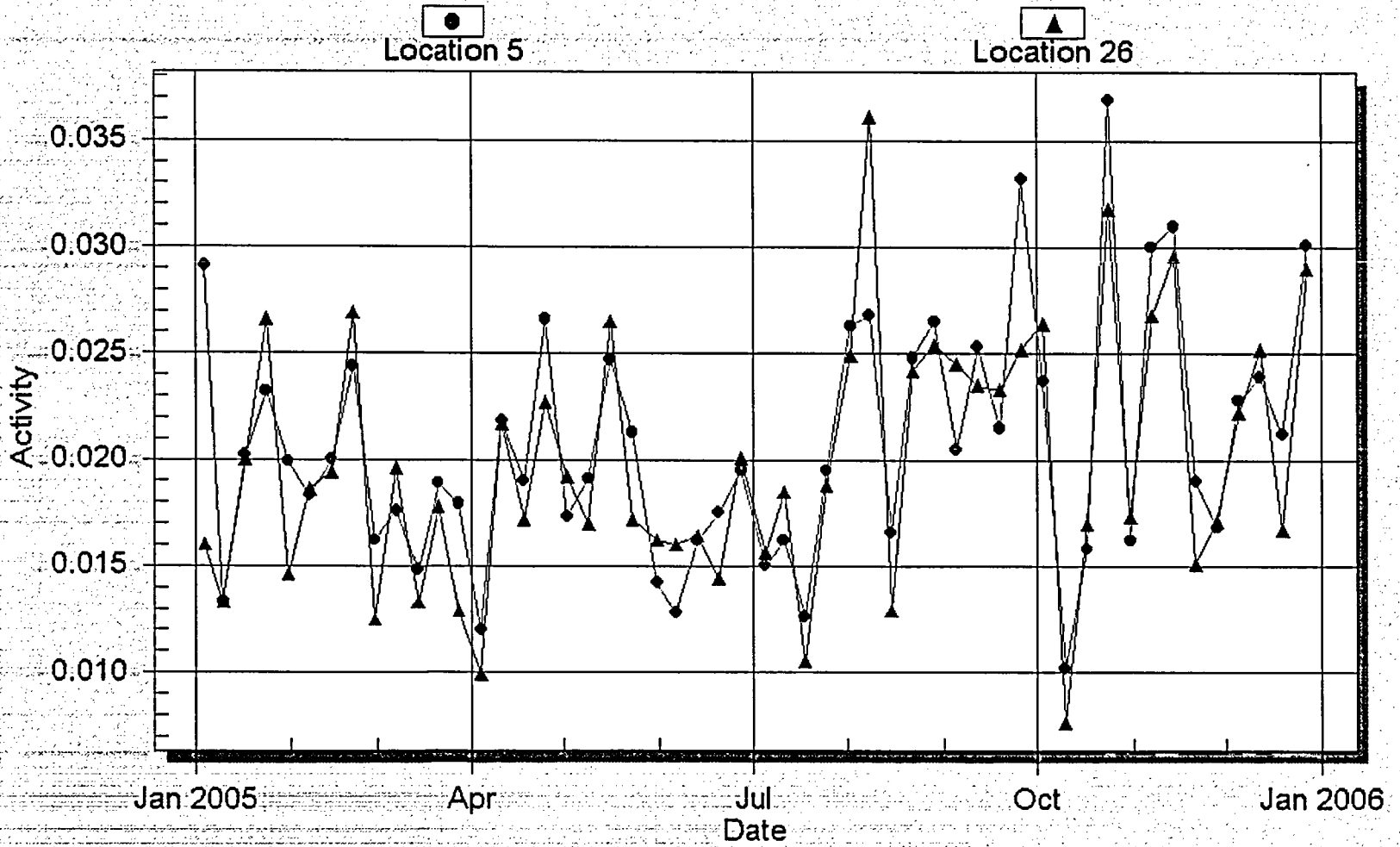


Figure 8 HNP From 1/1/2005 To 12/31/2005

AIR PARTICULATE for GROSS BETA - Activity (pCi/cubic meter)

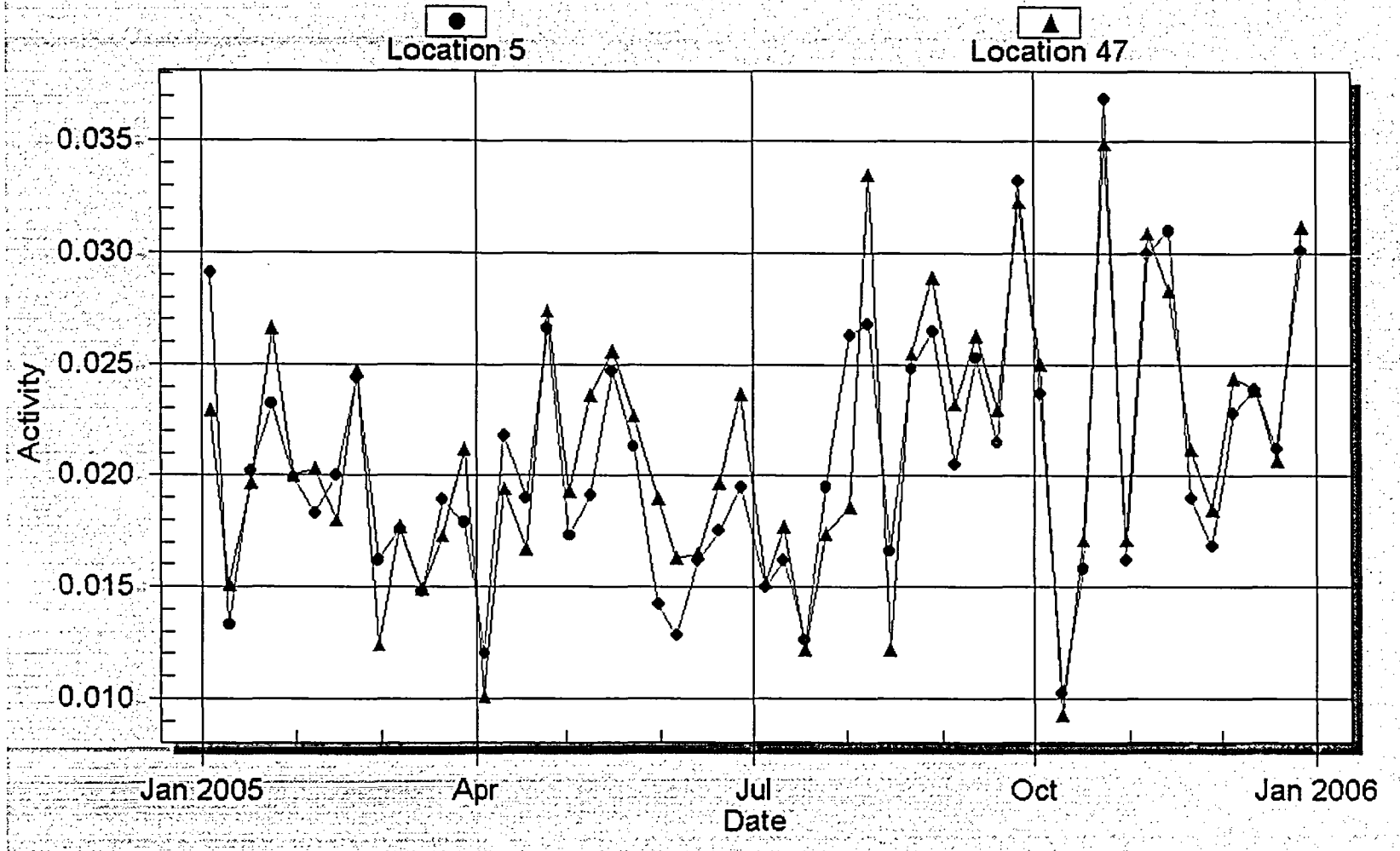


Figure 9 HNP From 1/1/2005 To 12/31/2005
DRINKING WATER for GROSS BETA - Activity (pCi/Liter)

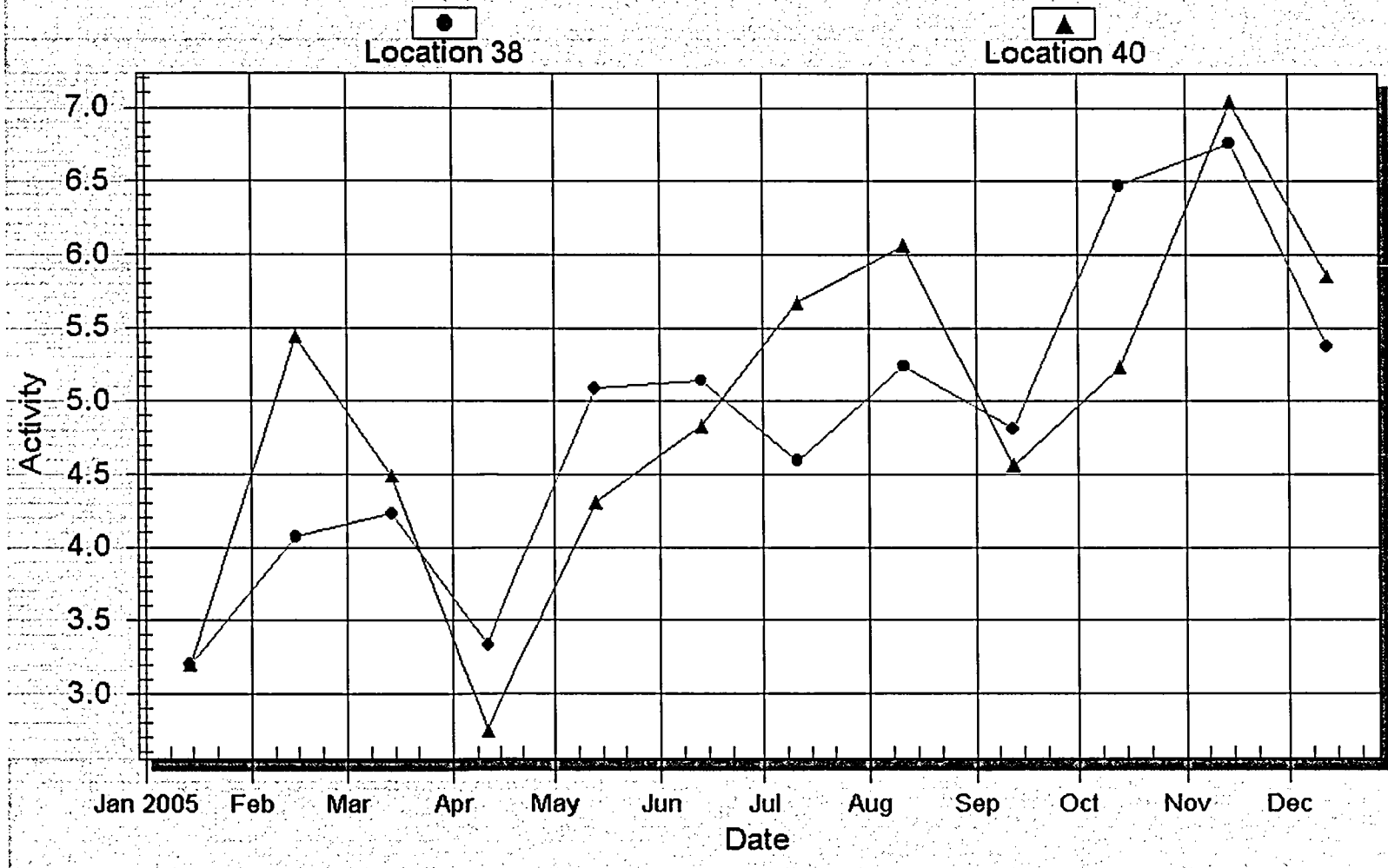


Figure 10 HNP From 1/1/2005 To 12/31/2005
SURFACE WATER for GROSS BETA - Activity (pCi/Liter)

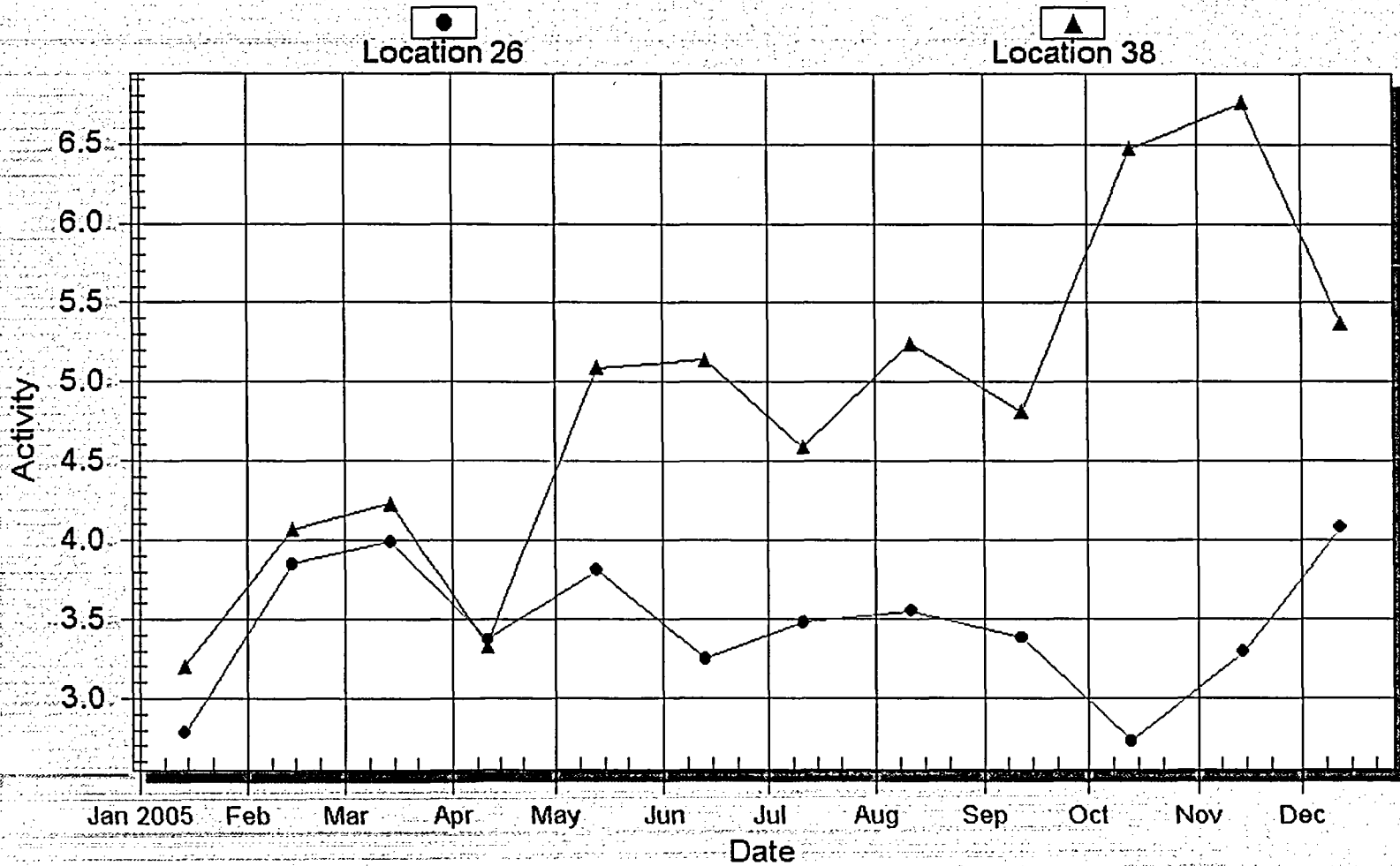


Figure 11 HNP 2005 Surface Water Tritium Activity

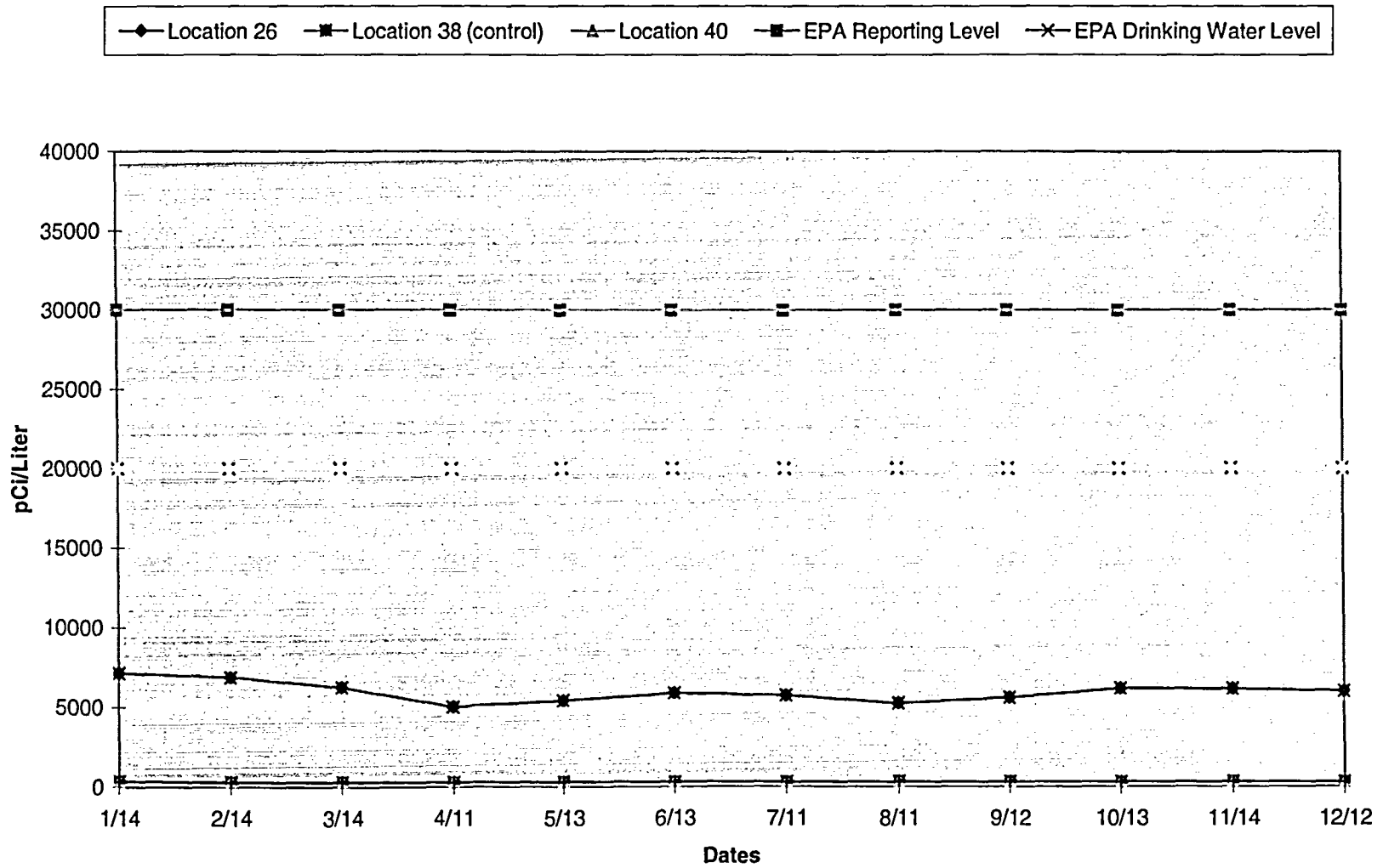
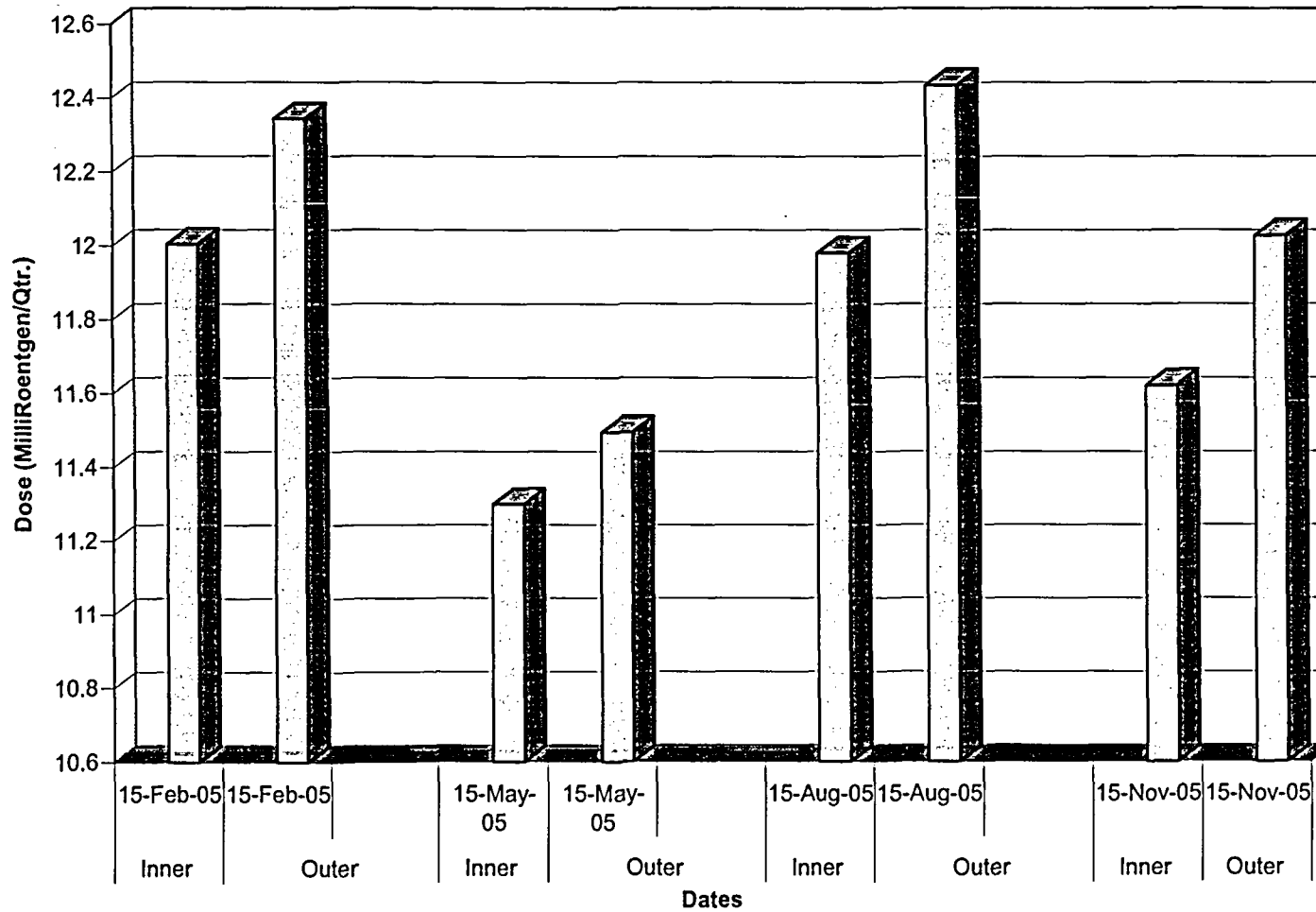


Figure 12 HNP 2005 TLD Averages for Inner and Outer Ring Locations



2005 HNP Radiological Environmental Monitoring TLD Report

Comments

- All HNP Environmental TLDS were present in 2005, except for the following TLD:
 - TLD # 22 Fourth Quarter of 2005

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Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/15/2005	13.3	1.3
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/15/2005	12.8	0.9
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	13.5	1.2
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/15/2005	13.1	1.1
2	SR 1134	2/15/2005	14.1	1.4
2	SR 1134	5/15/2005	13.5	1.1
2	SR 1134	8/15/2005	14.6	1.2
2	SR 1134	11/15/2005	13	1.4
3	HARRIS E&E CENTER - 2.2 MI NE	2/15/2005	11.7	1.1
3	HARRIS E&E CENTER - 2.2 MI NE	5/15/2005	11.3	0.7
3	HARRIS E&E CENTER - 2.2 MI NE	8/15/2005	12	0.6
3	HARRIS E&E CENTER - 2.2 MI NE	11/15/2005	11.5	1.4
4	NEW HILL NEAR 1ST BAPTIST CH	2/15/2005	12.1	0.7
4	NEW HILL NEAR 1ST BAPTIST CH	5/15/2005	11	0.6
4	NEW HILL NEAR 1ST BAPTIST CH	8/15/2005	11.8	1.2
4	NEW HILL NEAR 1ST BAPTIST CH	11/15/2005	11.2	0.9
5	PITTSBORO - CONTROL	2/15/2005	16.5	1.5
5	PITTSBORO - CONTROL	5/15/2005	14.5	1.5
5	PITTSBORO - CONTROL	8/15/2005	16.1	0.7
5	PITTSBORO - CONTROL	11/15/2005	14.7	0.6
6	INT OF SR 1134 AND 1135	2/15/2005	11.9	1.7

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
6	INT OF SR 1134 AND 1135	5/15/2005	11.3	0.9
6	INT OF SR 1134 AND 1135	8/15/2005	12.7	1.2
6	INT OF SR 1134 AND 1135	11/15/2005	11.7	0.7
7	HOUSE RUINS ON SR 1134	2/15/2005	12.8	1.2
7	HOUSE RUINS ON SR 1134	5/15/2005	12.6	0.6
7	HOUSE RUINS ON SR 1134	8/15/2005	13.2	0.8
7	HOUSE RUINS ON SR 1134	11/15/2005	12.7	0.7
8	DEAD END OF SR 1134	2/15/2005	14.1	1.2
8	DEAD END OF SR 1134	5/15/2005	11	0.4
8	DEAD END OF SR 1134	8/15/2005	14.4	0.7
8	DEAD END OF SR 1134	11/15/2005	11.4	0.5
9	1 MI SW OF HOLLEMANS XRDS ON SR 1130	2/15/2005	10.4	1.4
9	1 MI SW OF HOLLEMANS XRDS ON SR 1130	5/15/2005	9.8	0.4
9	1 MI SW OF HOLLEMANS XRDS ON SR 1130	8/15/2005	10.5	0.9
9	1 MI SW OF HOLLEMANS XRDS ON SR 1130	11/15/2005	10.1	0.7
10	2.0 MI SW OF HOLLEMANS XRDS ON SR 1130	2/15/2005	11.6	1.6
10	2.0 MI SW OF HOLLEMANS XRDS ON SR 1130	5/15/2005	10.3	1.2
10	2.0 MI SW OF HOLLEMANS XRDS ON SR 1130	8/15/2005	11.3	1.2
10	2.0 MI SW OF HOLLEMANS XRDS ON SR 1130	11/15/2005	10.4	1
11	EARTHEN DAM AT HARRIS PLANT	2/15/2005	10.5	0.6
11	EARTHEN DAM AT HARRIS PLANT	5/15/2005	10.9	0.9
11	EARTHEN DAM AT HARRIS PLANT	8/15/2005	11.2	1
11	EARTHEN DAM AT HARRIS PLANT	11/15/2005	11.7	1.3
12	1 MI S ON DIRT RD FROM TI D 13	2/15/2005	10.5	0.6

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
12	1 MI S ON DIRT RD FROM TLD 13	5/15/2005	10.2	0.7
12	1 MI S ON DIRT RD FROM TLD 13	8/15/2005	10.3	0.7
12	1 MI S ON DIRT RD FROM TLD 13	11/15/2005	10.6	0.6
13	DIRT RD INT BETWEEN PLANT AND AUX RES	2/15/2005	11.2	1.8
13	DIRT RD INT BETWEEN PLANT AND AUX RES	5/15/2005	10.7	1.5
13	DIRT RD INT BETWEEN PLANT AND AUX RES	8/15/2005	11	1
13	DIRT RD INT BETWEEN PLANT AND AUX RES	11/15/2005	11.2	1.3
14	DEAD END OF SR 1911	2/15/2005	10.9	0.6
14	DEAD END OF SR 1911	5/15/2005	9.8	1.4
14	DEAD END OF SR 1911	8/15/2005	10.8	1.3
14	DEAD END OF SR 1911	11/15/2005	10.4	0.5
15	CEMETERY ON SR 1911	2/15/2005	10.3	0.6
15	CEMETERY ON SR 1911	5/15/2005	9.8	0.6
15	CEMETERY ON SR 1911	8/15/2005	10	1.3
15	CEMETERY ON SR 1911	11/15/2005	10.3	1.3
16	US 1 AT CHATHAM-WAKE CO LINE	2/15/2005	12	1.4
16	US 1 AT CHATHAM-WAKE CO LINE	5/15/2005	11.9	1.5
16	US 1 AT CHATHAM-WAKE CO LINE	8/15/2005	11.8	1.2
16	US 1 AT CHATHAM-WAKE CO LINE	11/15/2005	11.7	0.6
17	INT OF US 1 AND AUX RES	2/15/2005	11.7	1.1
17	INT OF US 1 AND AUX RES	5/15/2005	11	1.1
17	INT OF US 1 AND AUX RES	8/15/2005	12.3	1.3
17	INT OF US 1 AND AUX RES	11/15/2005	11	0.7
18	0.6 MI N ON US 1 FROM TLD 17	2/15/2005	11.6	1.7

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
18	0.6 MI N ON US 1 FROM TLD 17	5/15/2005	11.7	1.4
18	0.6 MI N ON US 1 FROM TLD 17	8/15/2005	11.6	1
18	0.6 MI N ON US 1 FROM TLD 17	11/15/2005	11.9	0.5
19	SR 1142 - OLIVES DAIRY	2/15/2005	11.4	0.7
19	SR 1142 - OLIVES DAIRY	5/15/2005	11	1
19	SR 1142 - OLIVES DAIRY	8/15/2005	14.9	1.7
19	SR 1142 - OLIVES DAIRY	11/15/2005	11	0.9
20	INT OF SR 1149 AND US 1	2/15/2005	14.5	1.6
20	INT OF SR 1149 AND US 1	5/15/2005	13.6	1.1
20	INT OF SR 1149 AND US 1	8/15/2005	12.1	0.7
20	INT OF SR 1149 AND US 1	11/15/2005	13.8	0.6
21	1.3 MI ON SR 1152 FROM INT SR 1153	2/15/2005	12.4	1
21	1.3 MI ON SR 1152 FROM INT SR 1153	5/15/2005	9.3	0.8
21	1.3 MI ON SR 1152 FROM INT SR 1153	8/15/2005	10	0.9
21	1.3 MI ON SR 1152 FROM INT SR 1153	11/15/2005	10.1	0.8
22	2.0 MI E OF HOLLEMANS XRDS ON SR 1115	2/15/2005	10.1	0.7
22	2.0 MI E OF HOLLEMANS XRDS ON SR 1115	5/15/2005	10.1	0.6
22	2.0 MI E OF HOLLEMANS XRDS ON SR 1115	8/15/2005	12	1.1
23	INT SR 1116 AND SR 1127	2/15/2005	12	0.8
23	INT SR 1116 AND SR 1127	5/15/2005	11.5	0.9
23	INT SR 1116 AND SR 1127	8/15/2005	11.6	0.7
23	INT SR 1116 AND SR 1127	11/15/2005	12.1	1
24	SWEET SPRINGS CHURCH ON SR 1116	2/15/2005	11.5	1
24	SWEET SPRINGS CHURCH ON SR 1116	5/15/2005	10.5	0.9

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
24	SWEET SPRINGS CHURCH ON SR 1116	8/15/2005	14	0.7
24	SWEET SPRINGS CHURCH ON SR 1116	11/15/2005	11.2	0.9
25	0.2 MI W OF INT OF SR 1401 AND SR 1402	2/15/2005	13.9	2.2
25	0.2 MI W OF INT OF SR 1401 AND SR 1402	5/15/2005	11.4	0.7
25	0.2 MI W OF INT OF SR 1401 AND SR 1402	8/15/2005	10.8	1.5
25	0.2 MI W OF INT OF SR 1401 AND SR 1402	11/15/2005	11.6	1.6
26	SPILLWAY ON MAIN RES	2/15/2005	11.1	0.7
26	SPILLWAY ON MAIN RES	5/15/2005	10.6	0.8
26	SPILLWAY ON MAIN RES	8/15/2005	9.5	1.1
26	SPILLWAY ON MAIN RES	11/15/2005	11.1	1
27	BUCKHORN UNITED METHODIST CH ON NC 42	2/15/2005	9.9	0.7
27	BUCKHORN UNITED METHODIST CH ON NC 42	5/15/2005	9.3	0.8
27	BUCKHORN UNITED METHODIST CH ON NC 42	8/15/2005	11.1	1.1
27	BUCKHORN UNITED METHODIST CH ON NC 42	11/15/2005	9.4	0.6
28	0.6 MI FROM INT SR 1916 AND SR 1924	2/15/2005	10.9	0.8
28	0.6 MI FROM INT SR 1916 AND SR 1924	5/15/2005	9.8	0.9
28	0.6 MI FROM INT SR 1916 AND SR 1924	8/15/2005	13.9	0.9
28	0.6 MI FROM INT SR 1916 AND SR 1924	11/15/2005	10.5	1.4
29	NESTE RESIN CORP ON SR 1916	2/15/2005	14.4	0.8
29	NESTE RESIN CORP ON SR 1916	5/15/2005	13.5	0.7
29	NESTE RESIN CORP ON SR 1916	8/15/2005	10	1
29	NESTE RESIN CORP ON SR 1916	11/15/2005	14.5	1.1
30	INT OF SR 1972 AND US 1	2/15/2005	10.3	0.6
30	INT OF SR 1972 AND US 1	5/15/2005	9.9	1.5

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
30	INT OF SR 1972 AND US 1	8/15/2005	9.2	1.1
30	INT OF SR 1972 AND US 1	11/15/2005	10.1	1.9
31	INT OF SR 1910	2/15/2005	9.6	0.9
31	INT OF SR 1910	5/15/2005	9.5	1.6
31	INT OF SR 1910	8/15/2005	12	1.1
31	INT OF SR 1910	11/15/2005	10	0.5
32	3 MI ON SR 1008 FROM INT SR 1011	2/15/2005	12.1	0.8
32	3 MI ON SR 1008 FROM INT SR 1011	5/15/2005	12.6	0.4
32	3 MI ON SR 1008 FROM INT SR 1011	8/15/2005	10.9	0.7
32	3 MI ON SR 1008 FROM INT SR 1011	11/15/2005	12.8	0.6
33	SR 1142 AT BARRICADE	2/15/2005	10.7	0.7
33	SR 1142 AT BARRICADE	5/15/2005	10.6	1.1
33	SR 1142 AT BARRICADE	8/15/2005	14.8	1.8
33	SR 1142 AT BARRICADE	11/15/2005	10.7	0.7
34	APEX AT JONES PARK	2/15/2005	15	1.3
34	APEX AT JONES PARK	5/15/2005	13.9	1.6
34	APEX AT JONES PARK	8/15/2005	13.4	1.5
34	APEX AT JONES PARK	11/15/2005	14.4	1
35	HOLLY SPRINGS ON EARP STREET	2/15/2005	13.1	0.7
35	HOLLY SPRINGS ON EARP STREET	5/15/2005	11.8	1.3
35	HOLLY SPRINGS ON EARP STREET	8/15/2005	11.8	0.7
35	HOLLY SPRINGS ON EARP STREET	11/15/2005	12.9	0.6
36	INT OF SR 1393 AND SR 1421	2/15/2005	11.9	0.8
36	INT OF SR 1393 AND SR 1421	5/15/2005	11.2	0.9

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
36	INT OF SR 1393 AND SR 1421	8/15/2005	15.7	2.3
36	INT OF SR 1393 AND SR 1421	11/15/2005	11.6	1
37	FUQUAY VARINA AT OLD CP&L OFFICE	2/15/2005	15.7	1
37	FUQUAY VARINA AT OLD CP&L OFFICE	5/15/2005	14.9	0.5
37	FUQUAY VARINA AT OLD CP&L OFFICE	8/15/2005	13.1	1
37	FUQUAY VARINA AT OLD CP&L OFFICE	11/15/2005	15.2	1.3
48	SR 1142 AT UNDERGROUND CABLE SIGN	2/15/2005	13.7	0.9
48	SR 1142 AT UNDERGROUND CABLE SIGN	5/15/2005	13.1	1.1
48	SR 1142 AT UNDERGROUND CABLE SIGN	8/15/2005	14.1	1.1
48	SR 1142 AT UNDERGROUND CABLE SIGN	11/15/2005	14	1.9
49	SR 1127 AT WAKE CO TRASH COLLECTION AREA	2/15/2005	14.2	0.8
49	SR 1127 AT WAKE CO TRASH COLLECTION AREA	5/15/2005	13.6	0.4
49	SR 1127 AT WAKE CO TRASH COLLECTION AREA	8/15/2005	12	1
49	SR 1127 AT WAKE CO TRASH COLLECTION AREA	11/15/2005	14.2	1.6
50	HOLLEMANS CROSSROADS	2/15/2005	11.1	0.7
50	HOLLEMANS CROSSROADS	5/15/2005	10.2	0.4
50	HOLLEMANS CROSSROADS	8/15/2005	10.5	1
50	HOLLEMANS CROSSROADS	11/15/2005	10.7	0.8
53	INTERSECTION OF SR 1972 AND SR 1907	2/15/2005	10.9	1.2
53	INTERSECTION OF SR 1972 AND SR 1907	5/15/2005	10.3	0.7
53	INTERSECTION OF SR 1972 AND SR 1907	8/15/2005	12.6	1
53	INTERSECTION OF SR 1972 AND SR 1907	11/15/2005	10.9	0.7
56	2.8 MI WSW OF THE SITE	2/15/2005	12.3	1.5
56	2.8 MI WSW OF THE SITE	5/15/2005	10.6	0.4

Dose: mR/std. qtr.

<i>TLD</i>	<i>TLD Location Description</i>	<i>Sample Date</i>	<i>Dose</i>	<i>2 Sigma Error</i>
56	2.8 MI WSW OF THE SITE	9/15/2005	14.4	0.9
56	2.8 MI WSW OF THE SITE	11/15/2005	12	0.5
63	0.7 MI SW SECTOR ON (POWER POLE COJ85)	2/15/2005	13.3	1
63	0.7 MI SW SECTOR ON (POWER POLE COJ85)	5/15/2005	12.7	1.5
63	0.7 MI SW SECTOR ON (POWER POLE COJ85)	8/15/2005	11.9	0.9
63	0.7 MI SW SECTOR ON (POWER POLE COJ85)	11/15/2005	13	0.8
67	1.2 MI FROM HNP IN ENE SECTOR	2/15/2005	12.5	0.8
67	1.2 MI FROM HNP IN ENE SECTOR	5/15/2005	11.7	0.6
67	1.2 MI FROM HNP IN ENE SECTOR	8/15/2005	11.8	1.4
67	1.2 MI FROM HNP IN ENE SECTOR	11/15/2005	11.9	1

2005 HNP Radiological Environmental Monitoring Analysis Report

Comments

- The Less than LLD (<LLD) represents that no detectable radioactivity was present, but lists the LLD values.
- There are no 2 sigma error values reported when activity is <LLD.

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/4/2005	274.9	2.29E-02	3.61E-03	3.66E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/10/2005	233.8	1.17E-02	3.55E-03	4.59E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/17/2005	275.7	1.89E-02	3.35E-03	3.54E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/24/2005	280.7	3.01E-02	3.72E-03	3.08E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/31/2005	284.3	2.10E-02	3.33E-03	3.26E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/7/2005	278.1	2.01E-02	3.46E-03	3.69E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	276.9	1.81E-02	3.31E-03	3.57E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/21/2005	278.8	2.70E-02	3.67E-03	3.33E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/28/2005	283.4	1.50E-02	2.99E-03	3.23E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/7/2005	277.3	1.99E-02	3.41E-03	3.56E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/14/2005	277.8	1.66E-02	3.25E-03	3.60E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/21/2005	280.6	2.05E-02	3.32E-03	3.28E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/28/2005	277	1.70E-02	3.27E-03	3.59E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/4/2005	272.3	1.05E-02	2.96E-03	3.70E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/11/2005	280.8	2.37E-02	3.60E-03	3.61E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/18/2005	281.1	1.69E-02	3.17E-03	3.40E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/25/2005	275.2	2.79E-02	3.80E-03	3.54E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/2/2005	278.5	1.75E-02	3.24E-03	3.48E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/9/2005	279.7	2.29E-02	3.57E-03	3.62E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/16/2005	274.5	2.41E-02	3.68E-03	3.71E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/23/2005	276.5	1.97E-02	3.45E-03	3.69E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/31/2005	312.6	1.95E-02	3.09E-03	3.10E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/6/2005	238.9	1.47E-02	3.23E-03	3.49E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/13/2005	272.3	1.66E-02	3.14E-03	3.28E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/20/2005	269.9	1.75E-02	3.26E-03	3.44E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/27/2005	276.7	1.94E-02	3.40E-03	3.62E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/5/2005	312.4	1.68E-02	2.90E-03	2.95E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/11/2005	231	1.69E-02	3.56E-03	3.90E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/18/2005	273	1.22E-02	2.95E-03	3.45E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/25/2005	268.8	2.19E-02	3.52E-03	3.50E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/2/2005	311.1	2.59E-02	3.44E-03	3.22E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/8/2005	226.7	3.06E-02	4.56E-03	4.58E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	268.8	1.29E-02	3.03E-03	3.50E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/22/2005	270.4	2.56E-02	3.67E-03	3.41E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/29/2005	266.1	2.92E-02	3.89E-03	3.51E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/5/2005	269	2.48E-02	3.65E-03	3.48E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/12/2005	265.3	2.61E-02	3.65E-03	3.20E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/19/2005	268.3	2.24E-02	3.56E-03	3.53E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/26/2005	265.5	3.28E-02	4.04E-03	3.44E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/3/2005	265.9	2.23E-02	3.43E-03	3.17E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/10/2005	266.4	8.61E-03	2.92E-03	3.83E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/17/2005	266.3	1.69E-02	3.16E-03	3.25E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/24/2005	254.3	3.03E-02	4.07E-03	3.70E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/31/2005	259.6	1.80E-02	3.40E-03	3.63E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/7/2005	257.6	2.64E-02	3.87E-03	3.71E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	258.8	3.05E-02	4.04E-03	3.66E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/21/2005	261.2	1.97E-02	3.61E-03	3.95E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/28/2005	263.4	1.89E-02	3.60E-03	4.05E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/5/2005	262.5	2.29E-02	3.58E-03	3.57E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/12/2005	262.7	2.39E-02	3.59E-03	3.47E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/19/2005	262.9	1.99E-02	3.35E-03	3.37E-03
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/27/2005	300.1	2.72E-02	3.39E-03	2.88E-03
2	SR 1134	1/4/2005	265.1	2.09E-02	3.59E-03	3.80E-03
2	SR 1134	1/10/2005	224.8	9.88E-03	3.56E-03	4.78E-03
2	SR 1134	1/17/2005	264.2	2.04E-02	3.53E-03	3.69E-03
2	SR 1134	1/24/2005	268	2.62E-02	3.65E-03	3.23E-03
2	SR 1134	1/31/2005	271.7	1.80E-02	3.27E-03	3.42E-03
2	SR 1134	2/7/2005	263.7	1.87E-02	3.52E-03	3.89E-03
2	SR 1134	2/14/2005	264.2	2.05E-02	3.55E-03	3.74E-03
2	SR 1134	2/21/2005	265.2	2.22E-02	3.55E-03	3.50E-03
2	SR 1134	2/28/2005	268.3	1.58E-02	3.15E-03	3.41E-03
2	SR 1134	3/7/2005	265.7	1.86E-02	3.44E-03	3.72E-03
2	SR 1134	3/14/2005	264.6	1.52E-02	3.29E-03	3.78E-03
2	SR 1134	3/21/2005	265.9	1.62E-02	3.21E-03	3.46E-03
2	SR 1134	3/28/2005	261.5	1.48E-02	3.28E-03	3.80E-03
2	SR 1134	4/4/2005	257.2	8.45E-03	2.97E-03	3.91E-03
2	SR 1134	4/11/2005	263.2	2.22E-02	3.69E-03	3.85E-03
2	SR 1134	4/18/2005	262.2	1.44E-02	3.14E-03	3.56E-03
2	SR 1134	4/25/2005	257.7	2.64E-02	3.90E-03	3.78E-03
2	SR 1134	5/2/2005	274.9	1.64E-02	3.22E-03	3.52E-03
2	SR 1134	5/9/2005	274.9	2.23E-02	3.58E-03	3.68E-03
2	SR 1134	5/16/2005	270.3	2.27E-02	3.65E-03	3.77E-03
2	SR 1134	5/23/2005	272.2	1.71E-02	3.35E-03	3.74E-03
2	SR 1134	5/31/2005	307.3	1.63E-02	2.97E-03	3.15E-03
2	SR 1134	6/6/2005	234.3	1.42E-02	3.25E-03	3.55E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
2 SR 1134	6/13/2005	265.9	1.43E-02	3.06E-03	3.36E-03
2 SR 1134	6/20/2005	261.6	1.55E-02	3.22E-03	3.55E-03
2 SR 1134	6/27/2005	267.7	1.91E-02	3.47E-03	3.74E-03
2 SR 1134	7/5/2005	302.6	1.74E-02	3.00E-03	3.04E-03
2 SR 1134	7/11/2005	222.8	1.30E-02	3.41E-03	4.04E-03
2 SR 1134	7/18/2005	262.9	1.52E-02	3.21E-03	3.58E-03
2 SR 1134	7/25/2005	257.1	1.40E-02	3.19E-03	3.66E-03
2 SR 1134	8/2/2005	270.1	2.72E-02	3.84E-03	3.70E-03
2 SR 1134	8/8/2005	219.7	3.38E-02	4.80E-03	4.72E-03
2 SR 1134	8/15/2005	255.1	1.61E-02	3.33E-03	3.69E-03
2 SR 1134	8/22/2005	255.4	2.59E-02	3.82E-03	3.61E-03
2 SR 1134	8/29/2005	251.7	3.25E-02	4.19E-03	3.71E-03
2 SR 1134	9/5/2005	252.9	1.73E-02	3.41E-03	3.70E-03
2 SR 1134	9/12/2005	248.8	2.47E-02	3.72E-03	3.42E-03
2 SR 1134	9/19/2005	251.4	2.15E-02	3.68E-03	3.77E-03
2 SR 1134	9/26/2005	249.2	3.17E-02	4.15E-03	3.67E-03
2 SR 1134	10/3/2005	249.3	2.06E-02	3.49E-03	3.38E-03
2 SR 1134	10/10/2005	249.4	7.94E-03	3.04E-03	4.09E-03
2 SR 1134	10/17/2005	241.7	1.08E-02	3.00E-03	3.58E-03
2 SR 1134	10/24/2005	263.3	1.61E-02	3.26E-03	3.58E-03
2 SR 1134	10/31/2005	259.1	1.43E-02	3.19E-03	3.63E-03
2 SR 1134	11/7/2005	255.3	3.19E-02	4.15E-03	3.74E-03
2 SR 1134	11/14/2005	254.4	1.82E-02	3.47E-03	3.73E-03
2 SR 1134	11/21/2005	254.1	1.93E-02	3.66E-03	4.06E-03
2 SR 1134	11/28/2005	255.5	1.85E-02	3.67E-03	4.16E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
2	SR 1134	12/5/2005	254.6	2.30E-02	3.66E-03	3.68E-03
2	SR 1134	12/12/2005	256.9	2.41E-02	3.66E-03	3.55E-03
2	SR 1134	12/19/2005	258.1	1.85E-02	3.32E-03	3.43E-03
2	SR 1134	12/27/2005	293.6	2.49E-02	3.33E-03	2.95E-03
4	NEW HILL NEAR 1ST BAPTIST CH	1/4/2005	270	2.11E-02	3.56E-03	3.73E-03
4	NEW HILL NEAR 1ST BAPTIST CH	1/10/2005	228.8	1.05E-02	3.54E-03	4.69E-03
4	NEW HILL NEAR 1ST BAPTIST CH	1/17/2005	269.4	2.16E-02	3.55E-03	3.62E-03
4	NEW HILL NEAR 1ST BAPTIST CH	1/24/2005	275.3	2.42E-02	3.48E-03	3.14E-03
4	NEW HILL NEAR 1ST BAPTIST CH	1/31/2005	277.9	2.20E-02	3.43E-03	3.34E-03
4	NEW HILL NEAR 1ST BAPTIST CH	2/7/2005	269.2	2.09E-02	3.58E-03	3.81E-03
4	NEW HILL NEAR 1ST BAPTIST CH	2/14/2005	271	2.07E-02	3.50E-03	3.64E-03
4	NEW HILL NEAR 1ST BAPTIST CH	2/21/2005	272	2.35E-02	3.56E-03	3.41E-03
4	NEW HILL NEAR 1ST BAPTIST CH	2/28/2005	272.3	1.46E-02	3.06E-03	3.36E-03
4	NEW HILL NEAR 1ST BAPTIST CH	3/7/2005	271.2	2.03E-02	3.48E-03	3.64E-03
4	NEW HILL NEAR 1ST BAPTIST CH	3/14/2005	268.5	1.55E-02	3.27E-03	3.73E-03
4	NEW HILL NEAR 1ST BAPTIST CH	3/21/2005	269.9	1.86E-02	3.31E-03	3.41E-03
4	NEW HILL NEAR 1ST BAPTIST CH	3/28/2005	266.7	1.81E-02	3.42E-03	3.73E-03
4	NEW HILL NEAR 1ST BAPTIST CH	4/4/2005	262.9	8.73E-03	2.93E-03	3.83E-03
4	NEW HILL NEAR 1ST BAPTIST CH	4/11/2005	268.8	2.65E-02	3.84E-03	3.77E-03
4	NEW HILL NEAR 1ST BAPTIST CH	4/18/2005	268.4	1.84E-02	3.36E-03	3.56E-03
4	NEW HILL NEAR 1ST BAPTIST CH	4/25/2005	262.9	2.88E-02	3.96E-03	3.71E-03
4	NEW HILL NEAR 1ST BAPTIST CH	5/2/2005	279.2	1.92E-02	3.33E-03	3.47E-03
4	NEW HILL NEAR 1ST BAPTIST CH	5/9/2005	273.4	2.12E-02	3.54E-03	3.71E-03
4	NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	276.2	2.38E-02	3.65E-03	3.69E-03
4	NEW HILL NEAR 1ST BAPTIST CH	5/23/2005	276.7	2.05E-02	3.40E-03	3.68E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
4	NEW HILL NEAR 1ST BAPTIST CH	5/31/2005	313.8	1.89E-02	3.05E-03	3.09E-03
4	NEW HILL NEAR 1ST BAPTIST CH	6/6/2005	239.5	1.35E-02	3.15E-03	3.49E-03
4	NEW HILL NEAR 1ST BAPTIST CH	6/13/2005	276.6	1.68E-02	3.11E-03	3.23E-03
4	NEW HILL NEAR 1ST BAPTIST CH	6/20/2005	270.8	1.36E-02	3.03E-03	3.43E-03
4	NEW HILL NEAR 1ST BAPTIST CH	6/27/2005	278.6	1.77E-02	3.30E-03	3.59E-03
4	NEW HILL NEAR 1ST BAPTIST CH	7/5/2005	313.2	1.77E-02	2.94E-03	2.94E-03
4	NEW HILL NEAR 1ST BAPTIST CH	7/11/2005	234.8	1.89E-02	3.63E-03	3.83E-03
4	NEW HILL NEAR 1ST BAPTIST CH	7/18/2005	275	1.20E-02	2.92E-03	3.42E-03
4	NEW HILL NEAR 1ST BAPTIST CH	7/25/2005	274.3	1.97E-02	3.36E-03	3.43E-03
4	NEW HILL NEAR 1ST BAPTIST CH	8/2/2005	316.3	2.49E-02	3.36E-03	3.16E-03
4	NEW HILL NEAR 1ST BAPTIST CH	8/8/2005	236	3.48E-02	4.62E-03	4.40E-03
4	NEW HILL NEAR 1ST BAPTIST CH	8/15/2005	275.2	1.28E-02	2.97E-03	3.42E-03
4	NEW HILL NEAR 1ST BAPTIST CH	8/22/2005	276.7	2.73E-02	3.69E-03	3.33E-03
4	NEW HILL NEAR 1ST BAPTIST CH	8/29/2005	273.4	2.90E-02	3.81E-03	3.42E-03
4	NEW HILL NEAR 1ST BAPTIST CH	9/5/2005	275.9	2.47E-02	3.59E-03	3.39E-03
4	NEW HILL NEAR 1ST BAPTIST CH	9/12/2005	274.3	2.65E-02	3.59E-03	3.10E-03
4	NEW HILL NEAR 1ST BAPTIST CH	9/19/2005	276.1	2.20E-02	3.47E-03	3.43E-03
4	NEW HILL NEAR 1ST BAPTIST CH	9/26/2005	274.6	2.95E-02	3.80E-03	3.33E-03
4	NEW HILL NEAR 1ST BAPTIST CH	10/3/2005	275.3	2.85E-02	3.67E-03	3.06E-03
4	NEW HILL NEAR 1ST BAPTIST CH	10/10/2005	277.2	1.04E-02	2.93E-03	3.68E-03
4	NEW HILL NEAR 1ST BAPTIST CH	10/17/2005	274.1	1.61E-02	3.06E-03	3.15E-03
4	NEW HILL NEAR 1ST BAPTIST CH	10/24/2005	275.8	3.07E-02	3.88E-03	3.41E-03
4	NEW HILL NEAR 1ST BAPTIST CH	10/31/2005	279.7	1.64E-02	3.14E-03	3.37E-03
4	NEW HILL NEAR 1ST BAPTIST CH	11/7/2005	278.9	3.63E-02	4.11E-03	3.42E-03
4	NEW HILL NEAR 1ST BAPTIST CH	11/14/2005	278.9	3.08E-02	3.87E-03	3.40E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
4	NEW HILL NEAR 1ST BAPTIST CH	11/21/2005	282	2.28E-02	3.57E-03	3.66E-03
4	NEW HILL NEAR 1ST BAPTIST CH	11/28/2005	283.5	2.05E-02	3.50E-03	3.77E-03
4	NEW HILL NEAR 1ST BAPTIST CH	12/5/2005	283	2.17E-02	3.34E-03	3.31E-03
4	NEW HILL NEAR 1ST BAPTIST CH	12/12/2005	285.5	2.78E-02	3.58E-03	3.19E-03
4	NEW HILL NEAR 1ST BAPTIST CH	12/19/2005	283.2	2.33E-02	3.35E-03	3.13E-03
4	NEW HILL NEAR 1ST BAPTIST CH	12/27/2005	324.7	2.97E-02	3.33E-03	2.67E-03
5	PITTSBORO - CONTROL	1/4/2005	291.8	2.91E-02	3.74E-03	3.45E-03
5	PITTSBORO - CONTROL	1/10/2005	248	1.33E-02	3.48E-03	4.33E-03
5	PITTSBORO - CONTROL	1/17/2005	292.3	2.02E-02	3.28E-03	3.33E-03
5	PITTSBORO - CONTROL	1/24/2005	300.8	2.32E-02	3.24E-03	2.87E-03
5	PITTSBORO - CONTROL	1/31/2005	285.3	1.99E-02	3.26E-03	3.25E-03
5	PITTSBORO - CONTROL	2/7/2005	273.1	1.83E-02	3.42E-03	3.75E-03
5	PITTSBORO - CONTROL	2/14/2005	269.1	2.00E-02	3.49E-03	3.67E-03
5	PITTSBORO - CONTROL	2/21/2005	271.6	2.44E-02	3.60E-03	3.42E-03
5	PITTSBORO - CONTROL	2/28/2005	275.7	1.62E-02	3.12E-03	3.32E-03
5	PITTSBORO - CONTROL	3/7/2005	271.2	1.76E-02	3.34E-03	3.64E-03
5	PITTSBORO - CONTROL	3/14/2005	271	1.48E-02	3.21E-03	3.69E-03
5	PITTSBORO - CONTROL	3/21/2005	273.3	1.89E-02	3.30E-03	3.37E-03
5	PITTSBORO - CONTROL	3/28/2005	270	1.79E-02	3.38E-03	3.68E-03
5	PITTSBORO - CONTROL	4/4/2005	265.6	1.20E-02	3.11E-03	3.79E-03
5	PITTSBORO - CONTROL	4/11/2005	274.5	2.18E-02	3.56E-03	3.69E-03
5	PITTSBORO - CONTROL	4/18/2005	272.7	1.90E-02	3.36E-03	3.50E-03
5	PITTSBORO - CONTROL	4/25/2005	270.1	2.66E-02	3.79E-03	3.61E-03
5	PITTSBORO - CONTROL	5/2/2005	270.1	1.73E-02	3.30E-03	3.58E-03
5	PITTSBORO - CONTROL	5/9/2005	272.6	1.91E-02	3.45E-03	3.72E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
5	PITTSBORO - CONTROL	5/16/2005	269.6	2.47E-02	3.76E-03	3.78E-03
5	PITTSBORO - CONTROL	5/23/2005	267.1	2.13E-02	3.61E-03	3.82E-03
5	PITTSBORO - CONTROL	5/31/2005	305.1	1.42E-02	2.87E-03	3.17E-03
5	PITTSBORO - CONTROL	6/6/2005	233	1.28E-02	3.16E-03	3.58E-03
5	PITTSBORO - CONTROL	6/13/2005	271.4	1.62E-02	3.12E-03	3.29E-03
5	PITTSBORO - CONTROL	6/20/2005	261.8	1.75E-02	3.33E-03	3.55E-03
5	PITTSBORO - CONTROL	6/27/2005	274.6	1.95E-02	3.43E-03	3.64E-03
5	PITTSBORO - CONTROL	7/5/2005	311.4	1.50E-02	2.81E-03	2.96E-03
5	PITTSBORO - CONTROL	7/11/2005	221.1	1.62E-02	3.63E-03	4.07E-03
5	PITTSBORO - CONTROL	7/18/2005	268.1	1.26E-02	3.01E-03	3.51E-03
5	PITTSBORO - CONTROL	7/25/2005	266.9	1.95E-02	3.41E-03	3.53E-03
5	PITTSBORO - CONTROL	8/2/2005	308.5	2.63E-02	3.48E-03	3.24E-03
5	PITTSBORO - CONTROL	8/8/2005	231	2.68E-02	4.32E-03	4.49E-03
5	PITTSBORO - CONTROL	8/15/2005	269.5	1.66E-02	3.23E-03	3.49E-03
5	PITTSBORO - CONTROL	8/22/2005	268.6	2.48E-02	3.64E-03	3.43E-03
5	PITTSBORO - CONTROL	8/29/2005	268.2	2.65E-02	3.74E-03	3.49E-03
5	PITTSBORO - CONTROL	9/5/2005	269.2	2.05E-02	3.43E-03	3.47E-03
5	PITTSBORO - CONTROL	9/12/2005	268.6	2.53E-02	3.57E-03	3.16E-03
5	PITTSBORO - CONTROL	9/19/2005	272.5	2.15E-02	3.48E-03	3.48E-03
5	PITTSBORO - CONTROL	9/26/2005	266.4	3.32E-02	4.05E-03	3.43E-03
5	PITTSBORO - CONTROL	10/3/2005	270.8	2.37E-02	3.47E-03	3.11E-03
5	PITTSBORO - CONTROL	10/10/2005	270.4	1.02E-02	2.98E-03	3.77E-03
5	PITTSBORO - CONTROL	10/17/2005	271.1	1.58E-02	3.06E-03	3.19E-03
5	PITTSBORO - CONTROL	10/24/2005	266.4	3.69E-02	4.24E-03	3.53E-03
5	PITTSBORO - CONTROL	10/31/2005	271.2	1.62E-02	3.20E-03	3.47E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
5	PITTSBORO - CONTROL	11/7/2005	266.9	3.00E-02	3.95E-03	3.58E-03
5	PITTSBORO - CONTROL	11/14/2005	268.1	3.10E-02	3.97E-03	3.54E-03
5	PITTSBORO - CONTROL	11/21/2005	274.3	1.90E-02	3.45E-03	3.76E-03
5	PITTSBORO - CONTROL	11/28/2005	230.7	1.68E-02	3.86E-03	4.63E-03
5	PITTSBORO - CONTROL	12/5/2005	273.4	2.28E-02	3.48E-03	3.43E-03
5	PITTSBORO - CONTROL	12/12/2005	274.2	2.39E-02	3.49E-03	3.33E-03
5	PITTSBORO - CONTROL	12/19/2005	277.7	2.12E-02	3.29E-03	3.19E-03
5	PITTSBORO - CONTROL	12/27/2005	313.6	3.01E-02	3.42E-03	2.76E-03
26	SPILLWAY ON MAIN RES	1/4/2005	275	1.60E-02	3.25E-03	3.66E-03
26	SPILLWAY ON MAIN RES	1/10/2005	230.6	1.33E-02	3.68E-03	4.66E-03
26	SPILLWAY ON MAIN RES	1/17/2005	273.6	2.00E-02	3.42E-03	3.56E-03
26	SPILLWAY ON MAIN RES	1/24/2005	276.4	2.66E-02	3.59E-03	3.13E-03
26	SPILLWAY ON MAIN RES	1/31/2005	274.7	1.46E-02	3.06E-03	3.38E-03
26	SPILLWAY ON MAIN RES	2/7/2005	279.6	1.86E-02	3.37E-03	3.67E-03
26	SPILLWAY ON MAIN RES	2/14/2005	270.9	1.94E-02	3.44E-03	3.65E-03
26	SPILLWAY ON MAIN RES	2/21/2005	273	2.69E-02	3.71E-03	3.40E-03
26	SPILLWAY ON MAIN RES	2/28/2005	276.8	1.25E-02	2.89E-03	3.30E-03
26	SPILLWAY ON MAIN RES	3/7/2005	264.2	1.96E-02	3.51E-03	3.74E-03
26	SPILLWAY ON MAIN RES	3/14/2005	266.6	1.33E-02	3.16E-03	3.75E-03
26	SPILLWAY ON MAIN RES	3/21/2005	266.3	1.78E-02	3.30E-03	3.46E-03
26	SPILLWAY ON MAIN RES	3/28/2005	256.4	1.29E-02	3.22E-03	3.88E-03
26	SPILLWAY ON MAIN RES	4/4/2005	246.2	9.91E-03	3.17E-03	4.09E-03
26	SPILLWAY ON MAIN RES	4/11/2005	255.1	2.17E-02	3.74E-03	3.97E-03
26	SPILLWAY ON MAIN RES	4/18/2005	252	1.72E-02	3.45E-03	3.79E-03
26	SPILLWAY ON MAIN RES	4/25/2005	248.1	2.27E-02	3.81E-03	3.93E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
26	SPILLWAY ON MAIN RES	5/2/2005	275.3	1.92E-02	3.36E-03	3.52E-03
26	SPILLWAY ON MAIN RES	5/9/2005	259.4	1.70E-02	3.46E-03	3.91E-03
26	SPILLWAY ON MAIN RES	5/16/2005	255.3	2.65E-02	3.99E-03	3.99E-03
26	SPILLWAY ON MAIN RES	5/23/2005	253.2	1.72E-02	3.54E-03	4.03E-03
26	SPILLWAY ON MAIN RES	5/31/2005	285.7	1.62E-02	3.12E-03	3.39E-03
26	SPILLWAY ON MAIN RES	6/6/2005	219.9	1.60E-02	3.51E-03	3.80E-03
26	SPILLWAY ON MAIN RES	6/13/2005	251.1	1.64E-02	3.31E-03	3.56E-03
26	SPILLWAY ON MAIN RES	6/20/2005	243.5	1.44E-02	3.33E-03	3.81E-03
26	SPILLWAY ON MAIN RES	6/27/2005	254.2	2.01E-02	3.66E-03	3.94E-03
26	SPILLWAY ON MAIN RES	7/5/2005	288.1	1.56E-02	3.00E-03	3.20E-03
26	SPILLWAY ON MAIN RES	7/11/2005	201.3	1.85E-02	4.03E-03	4.47E-03
26	SPILLWAY ON MAIN RES	7/18/2005	247.1	1.05E-02	3.07E-03	3.81E-03
26	SPILLWAY ON MAIN RES	7/25/2005	241.9	1.88E-02	3.62E-03	3.89E-03
26	SPILLWAY ON MAIN RES	8/2/2005	280.8	2.49E-02	3.64E-03	3.56E-03
26	SPILLWAY ON MAIN RES	8/8/2005	207.5	3.61E-02	5.10E-03	5.00E-03
26	SPILLWAY ON MAIN RES	8/15/2005	243.6	1.29E-02	3.26E-03	3.87E-03
26	SPILLWAY ON MAIN RES	8/22/2005	238.8	2.42E-02	3.91E-03	3.86E-03
26	SPILLWAY ON MAIN RES	8/29/2005	239.2	2.54E-02	3.99E-03	3.91E-03
26	SPILLWAY ON MAIN RES	9/5/2005	240.5	2.45E-02	3.93E-03	3.89E-03
26	SPILLWAY ON MAIN RES	9/12/2005	239.6	2.35E-02	3.76E-03	3.55E-03
26	SPILLWAY ON MAIN RES	9/19/2005	241.6	2.33E-02	3.87E-03	3.93E-03
26	SPILLWAY ON MAIN RES	9/26/2005	235	2.52E-02	3.99E-03	3.89E-03
26	SPILLWAY ON MAIN RES	10/3/2005	235.9	2.64E-02	3.94E-03	3.57E-03
26	SPILLWAY ON MAIN RES	10/10/2005	234	7.64E-03	3.18E-03	4.36E-03
26	SPILLWAY ON MAIN RES	10/17/2005	231.7	1.70E-02	3.49E-03	3.73E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
26	SPILLWAY ON MAIN RES	10/24/2005	290.9	3.18E-02	3.80E-03	3.24E-03
26	SPILLWAY ON MAIN RES	10/31/2005	312.2	1.73E-02	2.95E-03	3.02E-03
26	SPILLWAY ON MAIN RES	11/7/2005	315.9	2.68E-02	3.40E-03	3.02E-03
26	SPILLWAY ON MAIN RES	11/14/2005	255.1	2.96E-02	4.04E-03	3.72E-03
26	SPILLWAY ON MAIN RES	11/21/2005	280.4	1.51E-02	3.19E-03	3.68E-03
26	SPILLWAY ON MAIN RES	11/28/2005	285.2	1.71E-02	3.31E-03	3.74E-03
26	SPILLWAY ON MAIN RES	12/5/2005	286.2	2.22E-02	3.34E-03	3.27E-03
26	SPILLWAY ON MAIN RES	12/12/2005	287.1	2.52E-02	3.45E-03	3.18E-03
26	SPILLWAY ON MAIN RES	12/19/2005	289	1.67E-02	2.97E-03	3.06E-03
26	SPILLWAY ON MAIN RES	12/27/2005	322.9	2.90E-02	3.31E-03	2.68E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/4/2005	279.1	2.29E-02	3.57E-03	3.61E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/10/2005	236.5	1.51E-02	3.71E-03	4.54E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/17/2005	279.8	1.97E-02	3.36E-03	3.48E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/24/2005	283	2.66E-02	3.54E-03	3.05E-03
47	SSW SECTOR 3.4 MI FROM SITE	1/31/2005	281.2	2.00E-02	3.30E-03	3.30E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/7/2005	286.7	2.03E-02	3.40E-03	3.58E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/14/2005	279.6	1.80E-02	3.29E-03	3.53E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/21/2005	282.3	2.47E-02	3.53E-03	3.29E-03
47	SSW SECTOR 3.4 MI FROM SITE	2/28/2005	287.2	1.24E-02	2.81E-03	3.18E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/7/2005	278	1.77E-02	3.29E-03	3.55E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/14/2005	278.7	1.49E-02	3.15E-03	3.59E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/21/2005	281.1	1.73E-02	3.15E-03	3.28E-03
47	SSW SECTOR 3.4 MI FROM SITE	3/28/2005	278.3	2.12E-02	3.47E-03	3.57E-03
47	SSW SECTOR 3.4 MI FROM SITE	4/4/2005	271	1.01E-02	2.95E-03	3.71E-03
47	SSW SECTOR 3.4 MI FROM SITE	4/11/2005	282.8	1.94E-02	3.37E-03	3.56E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
47	SSW SECTOR 3.4 MI FROM SITE	4/18/2005	280.3	1.67E-02	3.17E-03	3.41E-03
47	SSW SECTOR 3.4 MI FROM SITE	4/25/2005	277.2	2.74E-02	3.75E-03	3.52E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/2/2005	306.9	1.93E-02	3.12E-03	3.15E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/9/2005	341.1	2.36E-02	3.15E-03	2.97E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/16/2005	246.7	2.56E-02	4.04E-03	4.13E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/23/2005	243.8	2.27E-02	3.93E-03	4.18E-03
47	SSW SECTOR 3.4 MI FROM SITE	5/31/2005	279.9	1.90E-02	3.31E-03	3.46E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/6/2005	215.9	1.63E-02	3.58E-03	3.87E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/13/2005	248.5	1.65E-02	3.34E-03	3.59E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/20/2005	240.9	1.97E-02	3.65E-03	3.85E-03
47	SSW SECTOR 3.4 MI FROM SITE	6/27/2005	252.5	2.37E-02	3.85E-03	3.96E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/5/2005	287.6	1.52E-02	2.98E-03	3.20E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/11/2005	202.1	1.77E-02	3.97E-03	4.46E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/18/2005	249	1.22E-02	3.16E-03	3.78E-03
47	SSW SECTOR 3.4 MI FROM SITE	7/25/2005	244.4	1.74E-02	3.51E-03	3.85E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/2/2005	282.6	1.86E-02	3.31E-03	3.54E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/8/2005	208.4	3.35E-02	4.97E-03	4.98E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/15/2005	243.9	1.22E-02	3.21E-03	3.86E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/22/2005	238.4	2.55E-02	3.98E-03	3.86E-03
47	SSW SECTOR 3.4 MI FROM SITE	8/29/2005	239.5	2.89E-02	4.16E-03	3.90E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/5/2005	241.8	2.32E-02	3.84E-03	3.87E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/12/2005	241.3	2.63E-02	3.89E-03	3.52E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/19/2005	244.2	2.30E-02	3.83E-03	3.88E-03
47	SSW SECTOR 3.4 MI FROM SITE	9/26/2005	238.6	3.23E-02	4.30E-03	3.83E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/3/2005	240.9	2.50E-02	3.81E-03	3.50E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Particulate

Analysis: Beta

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
47	SSW SECTOR 3.4 MI FROM SITE	10/10/2005	242	9.28E-03	3.20E-03	4.21E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/17/2005	241.1	1.71E-02	3.41E-03	3.59E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/24/2005	277.7	3.49E-02	4.05E-03	3.39E-03
47	SSW SECTOR 3.4 MI FROM SITE	10/31/2005	282.6	1.71E-02	3.15E-03	3.33E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/7/2005	279.1	3.09E-02	3.87E-03	3.42E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/14/2005	280.6	2.83E-02	3.74E-03	3.38E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/21/2005	283.2	2.12E-02	3.48E-03	3.64E-03
47	SSW SECTOR 3.4 MI FROM SITE	11/28/2005	283.9	1.85E-02	3.39E-03	3.76E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/5/2005	285	2.44E-02	3.46E-03	3.29E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/12/2005	286.1	2.39E-02	3.39E-03	3.19E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/19/2005	288.7	2.07E-02	3.18E-03	3.07E-03
47	SSW SECTOR 3.4 MI FROM SITE	12/27/2005	321.1	3.12E-02	3.42E-03	2.70E-03

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
38	CAPE FEAR PLANT INTAKE - CONTROL	1/14/2005	1.00	3.20E+00	9.71E-01	1.23E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	2/14/2005	1.00	4.07E+00	9.28E-01	9.86E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	3/14/2005	1.00	4.23E+00	9.09E-01	9.28E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	4/11/2005	1.00	3.33E+00	8.19E-01	8.73E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	5/13/2005	1.00	5.09E+00	1.01E+00	1.03E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	1.00	5.14E+00	1.03E+00	1.00E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	1.00	4.59E+00	1.00E+00	1.04E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	8/11/2005	1.00	5.24E+00	9.87E-01	9.63E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	9/12/2005	1.00	4.81E+00	9.02E-01	8.65E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	10/13/2005	1.00	6.47E+00	1.01E+00	8.72E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	1.00	6.76E+00	1.10E+00	1.02E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	1.00	5.37E+00	8.78E-01	7.15E-01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2005	1.00	3.20E+00	9.71E-01	1.23E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2005	1.00	5.44E+00	1.01E+00	9.82E-01
40	LILLINGTON - CAPE FEAR RIVER	3/14/2005	1.00	4.49E+00	9.03E-01	8.95E-01
40	LILLINGTON - CAPE FEAR RIVER	4/11/2005	1.00	2.75E+00	7.63E-01	8.53E-01
40	LILLINGTON - CAPE FEAR RIVER	5/13/2005	1.00	4.31E+00	9.43E-01	1.00E+00
40	LILLINGTON - CAPE FEAR RIVER	6/13/2005	1.00	4.83E+00	9.85E-01	9.67E-01
40	LILLINGTON - CAPE FEAR RIVER	7/11/2005	1.00	5.67E+00	1.06E+00	1.02E+00
40	LILLINGTON - CAPE FEAR RIVER	8/11/2005	1.00	6.06E+00	1.03E+00	9.53E-01
40	LILLINGTON - CAPE FEAR RIVER	9/12/2005	1.00	4.56E+00	8.83E-01	8.59E-01
40	LILLINGTON - CAPE FEAR RIVER	10/13/2005	1.00	5.23E+00	9.30E-01	8.58E-01
40	LILLINGTON - CAPE FEAR RIVER	11/14/2005	1.00	7.04E+00	1.09E+00	9.77E-01
40	LILLINGTON - CAPE FEAR RIVER	12/12/2005	1.00	5.85E+00	8.91E-01	6.94E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2005	1.00	1.39E+00	7.69E-01	1.10E+00
51	WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2005	1.00	1.82E+00	6.58E-01	8.18E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2005	1.00	2.39E+00	6.93E-01	7.96E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
51	WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2005	1.00	1.89E+00	6.45E-01	7.72E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2005	1.00	1.96E+00	7.03E-01	8.82E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2005	1.00	2.03E+00	6.99E-01	8.40E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2005	1.00	2.06E+00	7.28E-01	8.94E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2005	1.00	1.63E+00	6.92E-01	8.97E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2005	1.00	1.23E+00	5.80E-01	7.63E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2005	1.00	1.21E+00	5.68E-01	7.43E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2005	1.00	9.68E-01	5.89E-01	8.26E-01
51	WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2005	1.00	1.62E+00	5.65E-01	6.56E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
26	SPILLWAY ON MAIN RES	1/14/2005	1.00	2.78E+00	8.56E-01	1.09E+00
26	SPILLWAY ON MAIN RES	2/14/2005	1.00	3.85E+00	8.22E-01	8.49E-01
26	SPILLWAY ON MAIN RES	3/14/2005	1.00	3.99E+00	8.17E-01	8.17E-01
26	SPILLWAY ON MAIN RES	4/11/2005	1.00	3.37E+00	7.66E-01	7.91E-01
26	SPILLWAY ON MAIN RES	5/13/2005	1.00	3.81E+00	8.34E-01	8.87E-01
26	SPILLWAY ON MAIN RES	6/13/2005	1.00	3.25E+00	7.84E-01	8.30E-01
26	SPILLWAY ON MAIN RES	7/11/2005	1.00	3.48E+00	8.21E-01	8.77E-01
26	SPILLWAY ON MAIN RES	8/11/2005	1.00	3.55E+00	8.17E-01	8.72E-01
26	SPILLWAY ON MAIN RES	9/12/2005	1.00	3.38E+00	7.52E-01	7.80E-01
26	SPILLWAY ON MAIN RES	10/13/2005	1.00	2.73E+00	6.99E-01	7.62E-01
26	SPILLWAY ON MAIN RES	11/14/2005	1.00	3.29E+00	7.76E-01	8.49E-01
26	SPILLWAY ON MAIN RES	12/12/2005	1.00	4.08E+00	7.69E-01	6.80E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	1/14/2005	1.00	3.20E+00	9.71E-01	1.23E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	2/14/2005	1.00	4.07E+00	9.28E-01	9.86E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	3/14/2005	1.00	4.23E+00	9.09E-01	9.28E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	4/11/2005	1.00	3.33E+00	8.19E-01	8.73E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	5/13/2005	1.00	5.09E+00	1.01E+00	1.03E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	1.00	5.14E+00	1.03E+00	1.00E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	1.00	4.59E+00	1.00E+00	1.04E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	8/11/2005	1.00	5.24E+00	9.87E-01	9.63E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	9/12/2005	1.00	4.81E+00	9.02E-01	8.65E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	10/13/2005	1.00	6.47E+00	1.01E+00	8.72E-01
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	1.00	6.76E+00	1.10E+00	1.02E+00
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	1.00	5.37E+00	8.78E-01	7.15E-01
40	LILLINGTON - CAPE FEAR RIVER	1/14/2005	1.00	3.20E+00	9.71E-01	1.23E+00
40	LILLINGTON - CAPE FEAR RIVER	2/14/2005	1.00	5.44E+00	1.01E+00	9.82E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Beta

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
40 LILLINGTON - CAPE FEAR RIVER	3/14/2005	1.00	4.49E+00	9.03E-01	8.95E-01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2005	1.00	2.75E+00	7.63E-01	8.53E-01
40 LILLINGTON - CAPE FEAR RIVER	5/13/2005	1.00	4.31E+00	9.43E-01	1.00E+00
40 LILLINGTON - CAPE FEAR RIVER	6/13/2005	1.00	4.83E+00	9.85E-01	9.67E-01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2005	1.00	5.67E+00	1.06E+00	1.02E+00
40 LILLINGTON - CAPE FEAR RIVER	8/11/2005	1.00	6.06E+00	1.03E+00	9.53E-01
40 LILLINGTON - CAPE FEAR RIVER	9/12/2005	1.00	4.56E+00	8.83E-01	8.59E-01
40 LILLINGTON - CAPE FEAR RIVER	10/13/2005	1.00	5.23E+00	9.30E-01	8.58E-01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2005	1.00	7.04E+00	1.09E+00	9.77E-01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2005	1.00	5.85E+00	8.91E-01	6.94E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/4/2005	274.90	<LLD	3.04E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/10/2005	233.80	<LLD	4.00E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/17/2005	275.70	<LLD	2.84E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/24/2005	280.70	<LLD	2.98E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1/31/2005	284.30	<LLD	2.64E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/7/2005	278.10	<LLD	2.21E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	276.90	<LLD	2.26E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/21/2005	278.80	<LLD	3.38E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/28/2005	283.40	<LLD	2.43E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/7/2005	277.30	<LLD	2.42E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/14/2005	277.80	<LLD	2.56E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/21/2005	280.60	<LLD	2.49E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	3/28/2005	277.00	<LLD	2.72E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/4/2005	272.30	<LLD	2.15E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/11/2005	280.80	<LLD	1.74E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/18/2005	281.10	<LLD	2.29E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	4/25/2005	275.20	<LLD	2.73E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/2/2005	278.50	<LLD	1.99E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/9/2005	279.70	<LLD	1.85E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/16/2005	274.50	<LLD	2.24E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/23/2005	276.50	<LLD	3.05E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/31/2005	312.60	<LLD	2.32E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/6/2005	238.90	<LLD	2.45E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/13/2005	272.30	<LLD	2.53E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/20/2005	269.90	<LLD	2.94E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	6/27/2005	276.70	<LLD	2.07E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/5/2005	312.40	<LLD	1.51E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/11/2005	231.00	<LLD	1.39E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/18/2005	273.00	<LLD	1.81E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	7/25/2005	268.80	<LLD	1.79E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/2/2005	311.10	<LLD	1.99E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/8/2005	226.70	<LLD	1.96E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	268.80	<LLD	2.45E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/22/2005	270.40	<LLD	1.61E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/29/2005	266.10	<LLD	1.71E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/5/2005	269.00	<LLD	2.80E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/12/2005	265.30	<LLD	1.40E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/19/2005	268.30	<LLD	1.93E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	9/26/2005	265.50	<LLD	1.93E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/3/2005	265.90	<LLD	2.11E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/10/2005	266.40	<LLD	1.71E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/17/2005	266.30	<LLD	3.03E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/24/2005	254.30	<LLD	2.02E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	10/31/2005	259.60	<LLD	2.18E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/7/2005	257.60	<LLD	2.03E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	258.80	<LLD	1.87E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/21/2005	261.20	<LLD	2.26E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/28/2005	263.40	<LLD	2.23E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/5/2005	262.50	<LLD	2.20E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/12/2005	262.70	<LLD	2.09E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/19/2005	262.90	<LLD	2.01E-02
1	SR 1134 AT INT SR 1011 - DIXIE PIPELINE	12/27/2005	300.10	<LLD	1.22E-02
2	SR 1134	1/4/2005	265.10	<LLD	3.64E-02
2	SR 1134	1/10/2005	224.80	<LLD	3.37E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
2 SR 1134	1/17/2005	264.20	<LLD		2.47E-02
2 SR 1134	1/24/2005	268.00	<LLD		4.10E-02
2 SR 1134	1/31/2005	271.70	<LLD		3.16E-02
2 SR 1134	2/7/2005	263.70	<LLD		2.91E-02
2 SR 1134	2/14/2005	264.20	<LLD		3.00E-02
2 SR 1134	2/21/2005	265.20	<LLD		1.98E-02
2 SR 1134	2/28/2005	268.30	<LLD		2.53E-02
2 SR 1134	3/7/2005	265.70	<LLD		3.42E-02
2 SR 1134	3/14/2005	264.60	<LLD		3.24E-02
2 SR 1134	3/21/2005	265.90	<LLD		3.14E-02
2 SR 1134	3/28/2005	261.50	<LLD		2.69E-02
2 SR 1134	4/4/2005	257.20	<LLD		3.18E-02
2 SR 1134	4/11/2005	263.20	<LLD		2.51E-02
2 SR 1134	4/18/2005	262.20	<LLD		3.34E-02
2 SR 1134	4/25/2005	257.70	<LLD		3.88E-02
2 SR 1134	5/2/2005	274.90	<LLD		2.97E-02
2 SR 1134	5/9/2005	274.90	<LLD		3.49E-02
2 SR 1134	5/16/2005	270.30	<LLD		3.33E-02
2 SR 1134	5/23/2005	272.20	<LLD		2.95E-02
2 SR 1134	5/31/2005	307.30	<LLD		2.66E-02
2 SR 1134	6/6/2005	234.30	<LLD		3.83E-02
2 SR 1134	6/13/2005	265.90	<LLD		2.34E-02
2 SR 1134	6/20/2005	261.60	<LLD		2.29E-02
2 SR 1134	6/27/2005	267.70	<LLD		2.52E-02
2 SR 1134	7/5/2005	302.60	<LLD		2.08E-02
2 SR 1134	7/11/2005	222.80	<LLD		2.40E-02
2 SR 1134	7/18/2005	262.90	<LLD		2.62E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
2 SR 1134	7/25/2005	257.10	<LLD		2.36E-02
2 SR 1134	8/2/2005	270.10	<LLD		2.08E-02
2 SR 1134	8/8/2005	219.70	<LLD		2.55E-02
2 SR 1134	8/15/2005	255.10	<LLD		1.99E-02
2 SR 1134	8/22/2005	255.40	<LLD		2.25E-02
2 SR 1134	8/29/2005	251.70	<LLD		2.78E-02
2 SR 1134	9/5/2005	252.90	<LLD		2.32E-02
2 SR 1134	9/12/2005	248.80	<LLD		3.73E-02
2 SR 1134	9/19/2005	251.40	<LLD		2.53E-02
2 SR 1134	9/26/2005	249.20	<LLD		2.99E-02
2 SR 1134	10/3/2005	249.30	<LLD		2.86E-02
2 SR 1134	10/10/2005	249.40	<LLD		2.89E-02
2 SR 1134	10/17/2005	241.70	<LLD		2.17E-02
2 SR 1134	10/24/2005	263.30	<LLD		2.23E-02
2 SR 1134	10/31/2005	259.10	<LLD		3.47E-02
2 SR 1134	11/7/2005	255.30	<LLD		2.99E-02
2 SR 1134	11/14/2005	254.40	<LLD		2.23E-02
2 SR 1134	11/21/2005	254.10	<LLD		2.59E-02
2 SR 1134	11/28/2005	255.50	<LLD		2.20E-02
2 SR 1134	12/5/2005	254.60	<LLD		1.95E-02
2 SR 1134	12/12/2005	256.90	<LLD		2.56E-02
2 SR 1134	12/19/2005	258.10	<LLD		2.00E-02
2 SR 1134	12/27/2005	293.60	<LLD		2.08E-02
4 NEW HILL NEAR 1ST BAPTIST CH	1/4/2005	270.00	<LLD		2.07E-02
4 NEW HILL NEAR 1ST BAPTIST CH	1/10/2005	228.80	<LLD		4.82E-02
4 NEW HILL NEAR 1ST BAPTIST CH	1/17/2005	260.40	<LLD		3.39E-02
4 NEW HILL NEAR 1ST BAPTIST CH	1/24/2005	275.30	<LLD		3.01E-02



HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
4	NEW HILL NEAR 1ST BAPTIST CH	1/31/2005	277.90	<LLD	1.71E-02
4	NEW HILL NEAR 1ST BAPTIST CH	2/7/2005	269.20	<LLD	2.72E-02
4	NEW HILL NEAR 1ST BAPTIST CH	2/14/2005	271.00	<LLD	2.11E-02
4	NEW HILL NEAR 1ST BAPTIST CH	2/21/2005	272.00	<LLD	4.94E-02
4	NEW HILL NEAR 1ST BAPTIST CH	2/28/2005	272.30	<LLD	4.82E-02
4	NEW HILL NEAR 1ST BAPTIST CH	3/7/2005	271.20	<LLD	2.41E-02
4	NEW HILL NEAR 1ST BAPTIST CH	3/14/2005	268.50	<LLD	2.10E-02
4	NEW HILL NEAR 1ST BAPTIST CH	3/21/2005	269.90	<LLD	1.98E-02
4	NEW HILL NEAR 1ST BAPTIST CH	3/28/2005	266.70	<LLD	4.40E-02
4	NEW HILL NEAR 1ST BAPTIST CH	4/4/2005	262.90	<LLD	2.29E-02
4	NEW HILL NEAR 1ST BAPTIST CH	4/11/2005	268.80	<LLD	2.71E-02
4	NEW HILL NEAR 1ST BAPTIST CH	4/18/2005	268.40	<LLD	2.38E-02
4	NEW HILL NEAR 1ST BAPTIST CH	4/25/2005	262.90	<LLD	2.28E-02
4	NEW HILL NEAR 1ST BAPTIST CH	5/2/2005	279.20	<LLD	2.25E-02
4	NEW HILL NEAR 1ST BAPTIST CH	5/9/2005	273.40	<LLD	3.31E-02
4	NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	276.20	<LLD	2.80E-02
4	NEW HILL NEAR 1ST BAPTIST CH	5/23/2005	276.70	<LLD	1.96E-02
4	NEW HILL NEAR 1ST BAPTIST CH	5/31/2005	313.80	<LLD	2.03E-02
4	NEW HILL NEAR 1ST BAPTIST CH	6/6/2005	239.50	<LLD	2.46E-02
4	NEW HILL NEAR 1ST BAPTIST CH	6/13/2005	276.60	<LLD	2.74E-02
4	NEW HILL NEAR 1ST BAPTIST CH	6/20/2005	270.80	<LLD	2.04E-02
4	NEW HILL NEAR 1ST BAPTIST CH	6/27/2005	278.60	<LLD	1.70E-02
4	NEW HILL NEAR 1ST BAPTIST CH	7/5/2005	313.20	<LLD	2.12E-02
4	NEW HILL NEAR 1ST BAPTIST CH	7/11/2005	234.80	<LLD	1.74E-02
4	NEW HILL NEAR 1ST BAPTIST CH	7/18/2005	275.00	<LLD	1.80E-02
4	NEW HILL NEAR 1ST BAPTIST CH	7/25/2005	274.30	<LLD	1.89E-02
4	NEW HILL NEAR 1ST BAPTIST CH	8/2/2005	316.30	<LLD	3.00E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
4	NEW HILL NEAR 1ST BAPTIST CH	8/8/2005	236.00	<LLD	2.31E-02
4	NEW HILL NEAR 1ST BAPTIST CH	8/15/2005	275.20	<LLD	1.86E-02
4	NEW HILL NEAR 1ST BAPTIST CH	8/22/2005	276.70	<LLD	1.90E-02
4	NEW HILL NEAR 1ST BAPTIST CH	8/29/2005	273.40	<LLD	2.02E-02
4	NEW HILL NEAR 1ST BAPTIST CH	9/5/2005	275.90	<LLD	3.04E-02
4	NEW HILL NEAR 1ST BAPTIST CH	9/12/2005	274.30	<LLD	1.68E-02
4	NEW HILL NEAR 1ST BAPTIST CH	9/19/2005	276.10	<LLD	1.86E-02
4	NEW HILL NEAR 1ST BAPTIST CH	9/26/2005	274.60	<LLD	2.28E-02
4	NEW HILL NEAR 1ST BAPTIST CH	10/3/2005	275.30	<LLD	1.80E-02
4	NEW HILL NEAR 1ST BAPTIST CH	10/10/2005	277.20	<LLD	3.17E-02
4	NEW HILL NEAR 1ST BAPTIST CH	10/17/2005	274.10	<LLD	2.40E-02
4	NEW HILL NEAR 1ST BAPTIST CH	10/24/2005	275.80	<LLD	1.22E-02
4	NEW HILL NEAR 1ST BAPTIST CH	10/31/2005	279.70	<LLD	1.63E-02
4	NEW HILL NEAR 1ST BAPTIST CH	11/7/2005	278.90	<LLD	1.59E-02
4	NEW HILL NEAR 1ST BAPTIST CH	11/14/2005	278.90	<LLD	1.52E-02
4	NEW HILL NEAR 1ST BAPTIST CH	11/21/2005	282.00	<LLD	1.74E-02
4	NEW HILL NEAR 1ST BAPTIST CH	11/28/2005	283.50	<LLD	2.76E-02
4	NEW HILL NEAR 1ST BAPTIST CH	12/5/2005	283.00	<LLD	1.70E-02
4	NEW HILL NEAR 1ST BAPTIST CH	12/12/2005	285.50	<LLD	1.96E-02
4	NEW HILL NEAR 1ST BAPTIST CH	12/19/2005	283.20	<LLD	1.87E-02
4	NEW HILL NEAR 1ST BAPTIST CH	12/27/2005	324.70	<LLD	1.37E-02
5	PITTSBORO - CONTROL	1/4/2005	291.80	<LLD	4.24E-02
5	PITTSBORO - CONTROL	1/10/2005	248.00	<LLD	3.60E-02
5	PITTSBORO - CONTROL	1/17/2005	292.30	<LLD	3.50E-02
5	PITTSBORO - CONTROL	1/24/2005	300.80	<LLD	2.67E-02
5	PITTSBORO - CONTROL	1/31/2005	285.30	<LLD	3.71E-02
5	PITTSBORO - CONTROL	2/7/2005	273.10	<LLD	4.50E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
5	PITTSBORO - CONTROL	2/14/2005	269.10	<LLD	2.54E-02
5	PITTSBORO - CONTROL	2/21/2005	271.60	<LLD	2.41E-02
5	PITTSBORO - CONTROL	2/28/2005	275.70	<LLD	2.50E-02
5	PITTSBORO - CONTROL	3/7/2005	271.20	<LLD	5.04E-02
5	PITTSBORO - CONTROL	3/14/2005	271.00	<LLD	5.18E-02
5	PITTSBORO - CONTROL	3/21/2005	273.30	<LLD	1.92E-02
5	PITTSBORO - CONTROL	3/28/2005	270.00	<LLD	2.32E-02
5	PITTSBORO - CONTROL	4/4/2005	265.60	<LLD	3.35E-02
5	PITTSBORO - CONTROL	4/11/2005	274.50	<LLD	2.42E-02
5	PITTSBORO - CONTROL	4/18/2005	272.70	<LLD	1.77E-02
5	PITTSBORO - CONTROL	4/25/2005	270.10	<LLD	2.26E-02
5	PITTSBORO - CONTROL	5/2/2005	270.10	<LLD	2.22E-02
5	PITTSBORO - CONTROL	5/9/2005	272.60	<LLD	2.53E-02
5	PITTSBORO - CONTROL	5/16/2005	269.60	<LLD	2.98E-02
5	PITTSBORO - CONTROL	5/23/2005	267.10	<LLD	3.50E-02
5	PITTSBORO - CONTROL	5/31/2005	305.10	<LLD	2.98E-02
5	PITTSBORO - CONTROL	6/6/2005	233.00	<LLD	4.11E-02
5	PITTSBORO - CONTROL	6/13/2005	271.40	<LLD	1.86E-02
5	PITTSBORO - CONTROL	6/20/2005	261.80	<LLD	3.15E-02
5	PITTSBORO - CONTROL	6/27/2005	274.60	<LLD	4.07E-02
5	PITTSBORO - CONTROL	7/5/2005	311.40	<LLD	2.83E-02
5	PITTSBORO - CONTROL	7/11/2005	221.10	<LLD	3.62E-02
5	PITTSBORO - CONTROL	7/18/2005	268.10	<LLD	2.75E-02
5	PITTSBORO - CONTROL	7/25/2005	266.90	<LLD	3.47E-02
5	PITTSBORO - CONTROL	8/2/2005	308.50	<LLD	1.78E-02
5	PITTSBORO - CONTROL	8/8/2005	231.00	<LLD	3.33E-02
5	PITTSBORO - CONTROL	8/15/2005	269.50	<LLD	3.25E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
5	PITTSBORO - CONTROL	8/22/2005	268.60	<LLD	3.29E-02
5	PITTSBORO - CONTROL	8/29/2005	268.20	<LLD	3.41E-02
5	PITTSBORO - CONTROL	9/5/2005	269.20	<LLD	2.29E-02
5	PITTSBORO - CONTROL	9/12/2005	268.60	<LLD	2.48E-02
5	PITTSBORO - CONTROL	9/19/2005	272.50	<LLD	2.10E-02
5	PITTSBORO - CONTROL	9/26/2005	266.40	<LLD	3.50E-02
5	PITTSBORO - CONTROL	10/3/2005	270.80	<LLD	2.68E-02
5	PITTSBORO - CONTROL	10/10/2005	270.40	<LLD	2.04E-02
5	PITTSBORO - CONTROL	10/17/2005	271.10	<LLD	3.75E-02
5	PITTSBORO - CONTROL	10/24/2005	266.40	<LLD	3.43E-02
5	PITTSBORO - CONTROL	10/31/2005	271.20	<LLD	2.45E-02
5	PITTSBORO - CONTROL	11/7/2005	266.90	<LLD	3.39E-02
5	PITTSBORO - CONTROL	11/14/2005	268.10	<LLD	3.44E-02
5	PITTSBORO - CONTROL	11/21/2005	274.30	<LLD	3.20E-02
5	PITTSBORO - CONTROL	11/28/2005	230.70	<LLD	2.43E-02
5	PITTSBORO - CONTROL	12/5/2005	273.40	<LLD	3.11E-02
5	PITTSBORO - CONTROL	12/12/2005	274.20	<LLD	3.31E-02
5	PITTSBORO - CONTROL	12/19/2005	277.70	<LLD	2.16E-02
5	PITTSBORO - CONTROL	12/27/2005	313.60	<LLD	2.01E-02
26	SPILLWAY ON MAIN RES	1/4/2005	275.00	<LLD	2.93E-02
26	SPILLWAY ON MAIN RES	1/10/2005	230.60	<LLD	2.71E-02
26	SPILLWAY ON MAIN RES	1/17/2005	273.60	<LLD	2.73E-02
26	SPILLWAY ON MAIN RES	1/24/2005	276.40	<LLD	2.58E-02
26	SPILLWAY ON MAIN RES	1/31/2005	274.70	<LLD	2.80E-02
26	SPILLWAY ON MAIN RES	2/7/2005	279.60	<LLD	2.36E-02
26	SPILLWAY ON MAIN RES	2/14/2005	270.90	<LLD	2.67E-02
26	SPILLWAY ON MAIN RES	2/21/2005	273.00	<LLD	2.45E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
26	SPILLWAY ON MAIN RES	2/28/2005	276.80	<LLD	2.81E-02
26	SPILLWAY ON MAIN RES	3/7/2005	264.20	<LLD	2.71E-02
26	SPILLWAY ON MAIN RES	3/14/2005	266.60	<LLD	2.95E-02
26	SPILLWAY ON MAIN RES	3/21/2005	266.30	<LLD	3.41E-02
26	SPILLWAY ON MAIN RES	3/28/2005	256.40	<LLD	2.45E-02
26	SPILLWAY ON MAIN RES	4/4/2005	246.20	<LLD	3.11E-02
26	SPILLWAY ON MAIN RES	4/11/2005	255.10	<LLD	3.40E-02
26	SPILLWAY ON MAIN RES	4/18/2005	252.00	<LLD	2.49E-02
26	SPILLWAY ON MAIN RES	4/25/2005	248.10	<LLD	3.89E-02
26	SPILLWAY ON MAIN RES	5/2/2005	275.30	<LLD	3.14E-02
26	SPILLWAY ON MAIN RES	5/9/2005	259.40	<LLD	3.66E-02
26	SPILLWAY ON MAIN RES	5/16/2005	255.30	<LLD	3.56E-02
26	SPILLWAY ON MAIN RES	5/23/2005	253.20	<LLD	3.37E-02
26	SPILLWAY ON MAIN RES	5/31/2005	285.70	<LLD	3.57E-02
26	SPILLWAY ON MAIN RES	6/6/2005	219.90	<LLD	4.28E-02
26	SPILLWAY ON MAIN RES	6/13/2005	251.10	<LLD	3.19E-02
26	SPILLWAY ON MAIN RES	6/20/2005	243.50	<LLD	1.95E-02
26	SPILLWAY ON MAIN RES	6/27/2005	254.20	<LLD	2.87E-02
26	SPILLWAY ON MAIN RES	7/5/2005	288.10	<LLD	1.82E-02
26	SPILLWAY ON MAIN RES	7/11/2005	201.30	<LLD	2.04E-02
26	SPILLWAY ON MAIN RES	7/18/2005	247.10	<LLD	2.42E-02
26	SPILLWAY ON MAIN RES	7/25/2005	241.90	<LLD	2.11E-02
26	SPILLWAY ON MAIN RES	8/2/2005	280.80	<LLD	1.73E-02
26	SPILLWAY ON MAIN RES	8/8/2005	207.50	<LLD	1.91E-02
26	SPILLWAY ON MAIN RES	8/15/2005	243.60	<LLD	3.11E-02
26	SPILLWAY ON MAIN RES	8/22/2005	238.80	<LLD	2.60E-02
26	SPILLWAY ON MAIN RES	8/29/2005	239.20	<LLD	2.40E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
26	SPILLWAY ON MAIN RES	9/5/2005	240.50	<LLD	3.80E-02
26	SPILLWAY ON MAIN RES	9/12/2005	239.60	<LLD	2.24E-02
26	SPILLWAY ON MAIN RES	9/19/2005	241.60	<LLD	2.77E-02
26	SPILLWAY ON MAIN RES	9/26/2005	235.00	<LLD	2.44E-02
26	SPILLWAY ON MAIN RES	10/3/2005	235.90	<LLD	2.71E-02
26	SPILLWAY ON MAIN RES	10/10/2005	234.00	<LLD	3.06E-02
26	SPILLWAY ON MAIN RES	10/17/2005	231.70	<LLD	2.71E-02
26	SPILLWAY ON MAIN RES	10/24/2005	290.90	<LLD	1.88E-02
26	SPILLWAY ON MAIN RES	10/31/2005	312.20	<LLD	1.78E-02
26	SPILLWAY ON MAIN RES	11/7/2005	315.90	<LLD	1.35E-02
26	SPILLWAY ON MAIN RES	11/14/2005	255.10	<LLD	2.10E-02
26	SPILLWAY ON MAIN RES	11/21/2005	280.40	<LLD	1.75E-02
26	SPILLWAY ON MAIN RES	11/28/2005	285.20	<LLD	2.18E-02
26	SPILLWAY ON MAIN RES	12/5/2005	286.20	<LLD	1.73E-02
26	SPILLWAY ON MAIN RES	12/12/2005	287.10	<LLD	2.25E-02
26	SPILLWAY ON MAIN RES	12/19/2005	289.00	<LLD	1.65E-02
26	SPILLWAY ON MAIN RES	12/27/2005	322.90	<LLD	1.82E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/4/2005	279.10	<LLD	2.91E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/10/2005	236.50	<LLD	4.81E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/17/2005	279.80	<LLD	2.67E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/24/2005	283.00	<LLD	3.56E-02
47	SSW SECTOR 3.4 MI FROM SITE	1/31/2005	281.20	<LLD	2.91E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/7/2005	286.70	<LLD	3.55E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/14/2005	279.60	<LLD	2.44E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/21/2005	282.30	<LLD	3.34E-02
47	SSW SECTOR 3.4 MI FROM SITE	2/28/2005	287.20	<LLD	3.86E-02
47	SSW SECTOR 3.4 MI FROM SITE	3/7/2005	278.00	<LLD	3.97E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
47	SSW SECTOR 3.4 MI FROM SITE	3/14/2005	278.70	<LLD	3.40E-02
47	SSW SECTOR 3.4 MI FROM SITE	3/21/2005	281.10	<LLD	2.40E-02
47	SSW SECTOR 3.4 MI FROM SITE	3/28/2005	278.30	<LLD	3.85E-02
47	SSW SECTOR 3.4 MI FROM SITE	4/4/2005	271.00	<LLD	2.53E-02
47	SSW SECTOR 3.4 MI FROM SITE	4/11/2005	282.80	<LLD	2.58E-02
47	SSW SECTOR 3.4 MI FROM SITE	4/18/2005	280.30	<LLD	2.00E-02
47	SSW SECTOR 3.4 MI FROM SITE	4/25/2005	277.20	<LLD	2.55E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/2/2005	306.90	<LLD	2.34E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/9/2005	341.10	<LLD	1.97E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/16/2005	246.70	<LLD	2.92E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/23/2005	243.80	<LLD	3.15E-02
47	SSW SECTOR 3.4 MI FROM SITE	5/31/2005	279.90	<LLD	2.34E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/6/2005	215.90	<LLD	3.43E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/13/2005	248.50	<LLD	2.05E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/20/2005	240.90	<LLD	2.87E-02
47	SSW SECTOR 3.4 MI FROM SITE	6/27/2005	252.50	<LLD	2.53E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/5/2005	287.60	<LLD	2.16E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/11/2005	202.10	<LLD	2.38E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/18/2005	249.00	<LLD	2.10E-02
47	SSW SECTOR 3.4 MI FROM SITE	7/25/2005	244.40	<LLD	2.00E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/2/2005	282.60	<LLD	2.42E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/8/2005	208.40	<LLD	2.79E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/15/2005	243.90	<LLD	2.07E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/22/2005	238.40	<LLD	3.18E-02
47	SSW SECTOR 3.4 MI FROM SITE	8/29/2005	239.50	<LLD	2.61E-02
47	SSW SECTOR 3.4 MI FROM SITE	9/5/2005	241.80	<LLD	3.10E-02
47	SSW SECTOR 3.4 MI FROM SITE	9/12/2005	241.30	<LLD	3.77E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Air Cartridge

Quantity: cubic meters

Concentration (Activity): pCi/cubic meter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
47 SSW SECTOR 3.4 MI FROM SITE	9/19/2005	244.20	<LLD		1.64E-02
47 SSW SECTOR 3.4 MI FROM SITE	9/26/2005	238.60	<LLD		2.70E-02
47 SSW SECTOR 3.4 MI FROM SITE	10/3/2005	240.90	<LLD		3.73E-02
47 SSW SECTOR 3.4 MI FROM SITE	10/10/2005	242.00	<LLD		4.19E-02
47 SSW SECTOR 3.4 MI FROM SITE	10/17/2005	241.10	<LLD		3.15E-02
47 SSW SECTOR 3.4 MI FROM SITE	10/24/2005	277.70	<LLD		2.35E-02
47 SSW SECTOR 3.4 MI FROM SITE	10/31/2005	282.60	<LLD		2.95E-02
47 SSW SECTOR 3.4 MI FROM SITE	11/7/2005	279.10	<LLD		2.37E-02
47 SSW SECTOR 3.4 MI FROM SITE	11/14/2005	280.60	<LLD		1.82E-02
47 SSW SECTOR 3.4 MI FROM SITE	11/21/2005	283.20	<LLD		2.18E-02
47 SSW SECTOR 3.4 MI FROM SITE	11/28/2005	283.90	<LLD		1.69E-02
47 SSW SECTOR 3.4 MI FROM SITE	12/5/2005	285.00	<LLD		2.25E-02
47 SSW SECTOR 3.4 MI FROM SITE	12/12/2005	286.10	<LLD		2.81E-02
47 SSW SECTOR 3.4 MI FROM SITE	12/19/2005	288.70	<LLD		2.47E-02
47 SSW SECTOR 3.4 MI FROM SITE	12/27/2005	321.10	<LLD		2.00E-02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	1/10/2005	4.00			6.06E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/24/2005	4.00			5.05E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/7/2005	4.00			5.87E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/21/2005	4.00			6.38E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/7/2005	4.00			6.55E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/21/2005	4.00			4.67E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/4/2005	4.00			4.47E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/18/2005	4.00			4.47E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/2/2005	4.00			5.32E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/16/2005	4.00			4.70E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/31/2005	4.00			4.70E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	4.00			6.55E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/27/2005	4.00			6.74E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	4.00			4.78E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/25/2005	4.00			4.91E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/8/2005	4.00			7.41E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/22/2005	4.00			4.74E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/5/2005	4.00			4.54E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/19/2005	4.00			4.25E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	10/3/2005	4.00			4.72E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/17/2005	4.00			4.27E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/31/2005	4.00			4.25E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	4.00			4.32E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/28/2005	4.00	3.64E-01	7.56E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	4.00			5.37E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/27/2005	4.00			6.01E-01
40 LILLINGTON - CAPE FEAR RIVER	1/10/2005	4.00			4.30E-01
40 LILLINGTON - CAPE FEAR RIVER	1/24/2005	4.00			6.18E-01
40 LILLINGTON - CAPE FEAR RIVER	2/7/2005	4.00			4.24E-01
40 LILLINGTON - CAPE FEAR RIVER	2/21/2005	4.00			4.83E-01
40 LILLINGTON - CAPE FEAR RIVER	3/7/2005	4.00			4.54E-01
40 LILLINGTON - CAPE FEAR RIVER	3/21/2005	4.00			4.46E-01
40 LILLINGTON - CAPE FEAR RIVER	4/4/2005	4.00			5.48E-01
40 LILLINGTON - CAPE FEAR RIVER	4/18/2005	4.00			5.59E-01
40 LILLINGTON - CAPE FEAR RIVER	5/2/2005	4.00			6.18E-01
40 LILLINGTON - CAPE FEAR RIVER	5/16/2005	4.00			5.60E-01
40 LILLINGTON - CAPE FEAR RIVER	5/31/2005	4.00			5.76E-01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2005	4.00			4.42E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
40 LILLINGTON - CAPE FEAR RIVER	6/27/2005	4.00			4.63E-01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2005	4.00			5.96E-01
40 LILLINGTON - CAPE FEAR RIVER	7/25/2005	4.00			6.11E-01
40 LILLINGTON - CAPE FEAR RIVER	8/8/2005	4.00			5.32E-01
40 LILLINGTON - CAPE FEAR RIVER	8/22/2005	4.00			6.09E-01
40 LILLINGTON - CAPE FEAR RIVER	9/5/2005	4.00			5.35E-01
40 LILLINGTON - CAPE FEAR RIVER	9/19/2005	4.00			5.20E-01
40 LILLINGTON - CAPE FEAR RIVER	10/3/2005	4.00			5.58E-01
40 LILLINGTON - CAPE FEAR RIVER	10/17/2005	4.00			5.13E-01
40 LILLINGTON - CAPE FEAR RIVER	10/31/2005	4.00			5.27E-01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2005	4.00			5.51E-01
40 LILLINGTON - CAPE FEAR RIVER	11/28/2005	4.00			5.96E-01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2005	4.00			6.31E-01
40 LILLINGTON - CAPE FEAR RIVER	12/27/2005	4.00			4.32E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/10/2005	4.00			4.39E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/24/2005	4.00			4.22E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/7/2005	4.00			7.21E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/21/2005	4.00			7.85E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/7/2005	4.00			7.89E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/21/2005	4.00			7.12E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/4/2005	4.00			4.17E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/18/2005	4.00			4.13E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/2/2005	4.00			4.40E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/16/2005	4.00			3.98E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/31/2005	4.00			3.96E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2005	4.00			7.99E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/27/2005	4.00			8.28E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2005	4.00			4.09E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/25/2005	4.00			4.60E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/8/2005	4.00			3.84E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/22/2005	4.00			4.06E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/5/2005	4.00			3.86E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/19/2005	4.00			3.75E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/3/2005	4.00			7.91E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/17/2005	4.00			4.16E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/31/2005	4.00			4.00E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2005	4.00			3.82E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/28/2005	4.00			4.37E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Activity</i>	<i>2 Sigma Error</i>	<i>LLD</i>
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2005	4.00			4.11E-01
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/27/2005	4.00			7.38E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
5 PITTSBORO - CONTROL	1/4/2005	4.00	<LLD		2.74E-01
5 PITTSBORO - CONTROL	1/17/2005	4.00	<LLD		2.54E-01
5 PITTSBORO - CONTROL	2/14/2005	4.00	<LLD		2.45E-01
5 PITTSBORO - CONTROL	2/28/2005	4.00	<LLD		2.70E-01
5 PITTSBORO - CONTROL	3/14/2005	4.00	<LLD		2.78E-01
5 PITTSBORO - CONTROL	3/28/2005	4.00	<LLD		2.74E-01
5 PITTSBORO - CONTROL	4/11/2005	4.00	<LLD		4.10E-01
5 PITTSBORO - CONTROL	4/25/2005	4.00	<LLD		2.87E-01
5 PITTSBORO - CONTROL	5/9/2005	4.00	<LLD		4.08E-01
5 PITTSBORO - CONTROL	5/23/2005	4.00	<LLD		3.34E-01
5 PITTSBORO - CONTROL	6/6/2005	4.00	<LLD		5.98E-01
5 PITTSBORO - CONTROL	6/20/2005	4.00	<LLD		3.27E-01
5 PITTSBORO - CONTROL	7/5/2005	4.00	<LLD		3.22E-01
5 PITTSBORO - CONTROL	7/18/2005	4.00	<LLD		5.05E-01
5 PITTSBORO - CONTROL	8/1/2005	4.00	<LLD		2.86E-01
5 PITTSBORO - CONTROL	8/15/2005	4.00	<LLD		4.82E-01
5 PITTSBORO - CONTROL	9/12/2005	4.00	<LLD		3.03E-01
5 PITTSBORO - CONTROL	9/26/2005	4.00	<LLD		3.32E-01
5 PITTSBORO - CONTROL	10/10/2005	4.00	<LLD		3.67E-01
5 PITTSBORO - CONTROL	10/24/2005	4.00	<LLD		5.51E-01
5 PITTSBORO - CONTROL	11/7/2005	4.00	<LLD		4.91E-01
5 PITTSBORO - CONTROL	11/21/2005	4.00	<LLD		3.29E-01
5 PITTSBORO - CONTROL	12/5/2005	4.00	<LLD		5.31E-01
5 PITTSBORO - CONTROL	12/19/2005	4.00	<LLD		5.03E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	1/10/2005	4.00			6.06E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	1/24/2005	4.00			5.05E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/7/2005	4.00			5.87E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	2/21/2005	4.00			6.38E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/7/2005	4.00			6.55E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	3/21/2005	4.00			4.67E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/4/2005	4.00			4.47E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	4/18/2005	4.00			4.47E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/2/2005	4.00			5.32E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/16/2005	4.00			4.70E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/31/2005	4.00			4.70E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	4.00			6.55E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/27/2005	4.00			6.74E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	4.00			4.78E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	7/25/2005	4.00			4.91E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/8/2005	4.00			7.41E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	8/22/2005	4.00			4.74E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/5/2005	4.00			4.54E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	9/19/2005	4.00			4.25E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/3/2005	4.00			4.72E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/17/2005	4.00			4.27E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	10/31/2005	4.00			4.25E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	4.00			4.32E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	11/28/2005	4.00	3.64E-01	7.56E-01	
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	4.00			5.37E-01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/27/2005	4.00			6.01E-01
40 LILLINGTON - CAPE FEAR RIVER	1/10/2005	4.00			4.30E-01
40 LILLINGTON - CAPE FEAR RIVER	1/24/2005	4.00			6.18E-01
40 LILLINGTON - CAPE FEAR RIVER	2/7/2005	4.00			4.24E-01
40 LILLINGTON - CAPE FEAR RIVER	2/21/2005	4.00			4.83E-01
40 LILLINGTON - CAPE FEAR RIVER	3/7/2005	4.00			4.54E-01
40 LILLINGTON - CAPE FEAR RIVER	3/21/2005	4.00			4.46E-01
40 LILLINGTON - CAPE FEAR RIVER	4/4/2005	4.00			5.48E-01
40 LILLINGTON - CAPE FEAR RIVER	4/18/2005	4.00			5.59E-01
40 LILLINGTON - CAPE FEAR RIVER	5/2/2005	4.00			6.18E-01
40 LILLINGTON - CAPE FEAR RIVER	5/16/2005	4.00			5.60E-01
40 LILLINGTON - CAPE FEAR RIVER	5/31/2005	4.00			5.76E-01
40 LILLINGTON - CAPE FEAR RIVER	6/13/2005	4.00			4.42E-01
40 LILLINGTON - CAPE FEAR RIVER	6/27/2005	4.00			4.63E-01
40 LILLINGTON - CAPE FEAR RIVER	7/11/2005	4.00			5.96E-01
40 LILLINGTON - CAPE FEAR RIVER	7/25/2005	4.00			6.11E-01
40 LILLINGTON - CAPE FEAR RIVER	8/8/2005	4.00			5.32E-01
40 LILLINGTON - CAPE FEAR RIVER	8/22/2005	4.00			6.09E-01
40 LILLINGTON - CAPE FEAR RIVER	9/5/2005	4.00			5.35E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Iodine

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
40 LILLINGTON - CAPE FEAR RIVER	9/19/2005	4.00			5.20E-01
40 LILLINGTON - CAPE FEAR RIVER	10/3/2005	4.00			5.58E-01
40 LILLINGTON - CAPE FEAR RIVER	10/17/2005	4.00			5.13E-01
40 LILLINGTON - CAPE FEAR RIVER	10/31/2005	4.00			5.27E-01
40 LILLINGTON - CAPE FEAR RIVER	11/14/2005	4.00			5.51E-01
40 LILLINGTON - CAPE FEAR RIVER	11/28/2005	4.00			5.96E-01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2005	4.00			6.31E-01
40 LILLINGTON - CAPE FEAR RIVER	12/27/2005	4.00			4.32E-01

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Analysis: Tritium

Quantity: Liters

Concentration (Activity): pCi/Liter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
38	CAPE FEAR PLANT INTAKE - CONTROL	1/14/2005	0.005	<LLD	3.65E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	2/14/2005	0.005	<LLD	3.12E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	3/14/2005	0.005	<LLD	3.04E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	4/11/2005	0.005	<LLD	3.05E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	5/13/2005	0.005	<LLD	3.12E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	0.005	<LLD	3.08E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	0.005	<LLD	3.05E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	8/11/2005	0.005	<LLD	3.11E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	9/12/2005	0.005	<LLD	3.17E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	10/13/2005	0.005	<LLD	3.06E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	0.005	<LLD	3.07E+02	
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	0.005	<LLD	3.03E+02	
40	LILLINGTON - CAPE FEAR RIVER	1/14/2005	0.005	<LLD	3.69E+02	
40	LILLINGTON - CAPE FEAR RIVER	2/14/2005	0.005	<LLD	3.09E+02	
40	LILLINGTON - CAPE FEAR RIVER	3/14/2005	0.005	<LLD	3.05E+02	
40	LILLINGTON - CAPE FEAR RIVER	4/11/2005	0.005	<LLD	3.05E+02	
40	LILLINGTON - CAPE FEAR RIVER	5/13/2005	0.005	<LLD	3.12E+02	
40	LILLINGTON - CAPE FEAR RIVER	6/13/2005	0.005	<LLD	3.09E+02	
40	LILLINGTON - CAPE FEAR RIVER	7/11/2005	0.005	<LLD	3.05E+02	
40	LILLINGTON - CAPE FEAR RIVER	8/11/2005	0.005	<LLD	3.11E+02	
40	LILLINGTON - CAPE FEAR RIVER	9/12/2005	0.005	<LLD	3.16E+02	
40	LILLINGTON - CAPE FEAR RIVER	10/13/2005	0.005	<LLD	3.07E+02	
40	LILLINGTON - CAPE FEAR RIVER	11/14/2005	0.005	<LLD	3.07E+02	
40	LILLINGTON - CAPE FEAR RIVER	12/12/2005	0.005	<LLD	3.03E+02	
51	WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2005	0.005	6.38E+03	2.73E+02	3.18E+02
51	WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2005	0.005	5.20E+03	2.39E+02	3.09E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Drinking Water

Analysis: Tritium

Quantity: Liters

Concentration (Activity): pCi/Liter

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2005	0.005	5.07E+03	2.36E+02	3.04E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2005	0.005	4.23E+03	2.30E+02	3.07E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2005	0.005	4.38E+03	2.33E+02	3.12E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2005	0.005	4.85E+03	2.35E+02	3.06E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2005	0.005	3.37E+03	2.21E+02	3.06E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2005	0.005	3.11E+03	2.21E+02	3.11E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2005	0.005	2.67E+03	2.21E+02	3.18E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2005	0.005	2.72E+03	2.15E+02	3.06E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2005	0.005	4.03E+03	2.28E+02	3.07E+02
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2005	0.005	4.35E+03	2.29E+02	3.03E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
39 DEEP WELL NEAR DIABASE DIKES	2/16/2005	0.005	<LLD		3.00E+02
39 DEEP WELL NEAR DIABASE DIKES	5/19/2005	0.005	<LLD		3.09E+02
39 DEEP WELL NEAR DIABASE DIKES	8/24/2005	0.005	<LLD		3.13E+02
39 DEEP WELL NEAR DIABASE DIKES	11/16/2005	0.005	<LLD		3.09E+02
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	2/16/2005	0.005	<LLD		3.00E+02
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	5/19/2005	0.005	<LLD		3.10E+02
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	8/24/2005	0.005	<LLD		3.13E+02
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	11/16/2005	0.005	<LLD		3.09E+02
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	2/16/2005	0.005	6.20E+02	1.89E+02	3.00E+02
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	5/19/2005	0.005	4.99E+02	1.94E+02	3.11E+02
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	8/24/2005	0.005	4.63E+02	1.95E+02	3.13E+02
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	11/16/2005	0.005	7.23E+02	1.96E+02	3.10E+02
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	2/16/2005	0.005	<LLD		3.01E+02
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	5/19/2005	0.005	<LLD		3.11E+02
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	8/24/2005	0.005	<LLD		3.16E+02
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	11/16/2005	0.005	<LLD		3.10E+02
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	2/16/2005	0.005	<LLD		3.02E+02
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	5/19/2005	0.005	<LLD		3.09E+02
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	8/24/2005	0.005	<LLD		3.15E+02
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	11/16/2005	0.005	<LLD		3.09E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD	
26	SPILLWAY ON MAIN RES	1/14/2005	0.005	7.15E+03	2.80E+02	3.16E+02
26	SPILLWAY ON MAIN RES	2/14/2005	0.005	6.89E+03	2.54E+02	3.09E+02
26	SPILLWAY ON MAIN RES	3/14/2005	0.005	6.25E+03	2.46E+02	3.03E+02
26	SPILLWAY ON MAIN RES	4/11/2005	0.005	5.03E+03	2.37E+02	3.06E+02
26	SPILLWAY ON MAIN RES	5/13/2005	0.005	5.38E+03	2.42E+02	3.12E+02
26	SPILLWAY ON MAIN RES	6/13/2005	0.005	5.88E+03	2.44E+02	3.06E+02
26	SPILLWAY ON MAIN RES	7/11/2005	0.005	5.71E+03	2.42E+02	3.05E+02
26	SPILLWAY ON MAIN RES	8/11/2005	0.005	5.21E+03	2.40E+02	3.10E+02
26	SPILLWAY ON MAIN RES	9/12/2005	0.005	5.57E+03	2.46E+02	3.15E+02
26	SPILLWAY ON MAIN RES	10/13/2005	0.005	6.15E+03	2.47E+02	3.07E+02
26	SPILLWAY ON MAIN RES	11/14/2005	0.005	6.12E+03	2.50E+02	3.11E+02
26	SPILLWAY ON MAIN RES	12/12/2005	0.005	5.98E+03	2.43E+02	3.02E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	1/14/2005	0.005	<LLD		3.65E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	2/14/2005	0.005	<LLD		3.12E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	3/14/2005	0.005	<LLD		3.04E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	4/11/2005	0.005	<LLD		3.05E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	5/13/2005	0.005	<LLD		3.12E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	0.005	<LLD		3.08E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	0.005	<LLD		3.05E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	8/11/2005	0.005	<LLD		3.11E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	9/12/2005	0.005	<LLD		3.17E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	10/13/2005	0.005	<LLD		3.06E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	0.005	<LLD		3.07E+02
38	CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	0.005	<LLD		3.03E+02

HNP Radiological Environmental Monitoring Analysis Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/Liter

Analysis: Tritium

Sample Point	Sample Date	Quantity	Activity	2 Sigma Error	LLD
40 LILLINGTON - CAPE FEAR RIVER	1/14/2005	0.005	<LLD		3.69E+02
40 LILLINGTON - CAPE FEAR RIVER	2/14/2005	0.005	<LLD		3.09E+02
40 LILLINGTON - CAPE FEAR RIVER	3/14/2005	0.005	<LLD		3.05E+02
40 LILLINGTON - CAPE FEAR RIVER	4/11/2005	0.005	<LLD		3.05E+02
40 LILLINGTON - CAPE FEAR RIVER	5/13/2005	0.005	<LLD		3.12E+02
40 LILLINGTON - CAPE FEAR RIVER	6/13/2005	0.005	<LLD		3.09E+02
40 LILLINGTON - CAPE FEAR RIVER	7/11/2005	0.005	<LLD		3.05E+02
40 LILLINGTON - CAPE FEAR RIVER	8/11/2005	0.005	<LLD		3.11E+02
40 LILLINGTON - CAPE FEAR RIVER	9/12/2005	0.005	<LLD		3.16E+02
40 LILLINGTON - CAPE FEAR RIVER	10/13/2005	0.005	<LLD		3.07E+02
40 LILLINGTON - CAPE FEAR RIVER	11/14/2005	0.005	<LLD		3.07E+02
40 LILLINGTON - CAPE FEAR RIVER	12/12/2005	0.005	<LLD		3.03E+02

2005 HNP Radiological Environmental Monitoring Gamma Isotopic Report

Comments

- NO-ACT refers to no detectable gamma activity being present in the samples. Refer to Table 5 for typical gamma Lower Limits of Detection for specific nuclides.

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	3579.3	PB-214	1.43E-03	9.95E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	3579.3	BE-7	9.89E-02	1.37E-02
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	3579.3	BI-214	1.91E-03	1.21E-03
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	3579.3	PB-212	1.76E-03	9.05E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	2/14/2005	3579.3	TL-208	7.10E-04	4.65E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/16/2005	3589	BE-7	1.31E-01	1.58E-02
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/16/2005	3589	PB-212	1.53E-03	7.26E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	5/16/2005	3589	PB-214	1.39E-03	1.08E-03
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	3496.4	PB-212	2.26E-03	7.27E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	3496.4	K-40	2.06E-02	1.16E-02
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	3496.4	PB-214	7.29E-03	1.69E-03
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	3496.4	BI-214	1.11E-02	2.00E-03
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	8/15/2005	3496.4	BE-7	1.16E-01	1.74E-02
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	3441.7	BE-7	1.11E-01	1.61E-02
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	3441.7	PB-212	1.28E-03	8.10E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	3441.7	TL-208	7.94E-04	7.18E-04
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	3441.7	PB-214	7.02E-03	1.43E-03
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	11/14/2005	3441.7	BI-214	6.37E-03	1.53E-03
2 SR 1134	2/14/2005	3412.9	PB-214	2.83E-03	1.82E-03
2 SR 1134	2/14/2005	3412.9	BE-7	7.22E-02	1.98E-02
2 SR 1134	5/16/2005	3469.4	BE-7	1.17E-01	1.94E-02
2 SR 1134	8/15/2005	3299.7	BE-7	1.12E-01	1.74E-02
2 SR 1134	11/14/2005	3345.3	BE-7	9.60E-02	1.91E-02
2 SR 1134	11/14/2005	3345.3	PB-212	2.10E-03	1.71E-03

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
4 NEW HILL NEAR 1ST BAPTIST CH	2/14/2005	3482.2	K-40	2.15E-02	1.10E-02
4 NEW HILL NEAR 1ST BAPTIST CH	2/14/2005	3482.2	BE-7	8.21E-02	1.36E-02
4 NEW HILL NEAR 1ST BAPTIST CH	2/14/2005	3482.2	PB-212	1.03E-03	6.79E-04
4 NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	3547.8	BE-7	1.39E-01	1.89E-02
4 NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	3547.8	K-40	1.35E-02	9.22E-03
4 NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	3547.8	PB-212	1.10E-03	6.31E-04
4 NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	3547.8	BI-214	2.49E-03	1.42E-03
4 NEW HILL NEAR 1ST BAPTIST CH	5/16/2005	3547.8	PB-214	3.29E-03	1.53E-03
4 NEW HILL NEAR 1ST BAPTIST CH	8/15/2005	3575.8	BE-7	1.18E-01	2.26E-02
4 NEW HILL NEAR 1ST BAPTIST CH	11/14/2005	3681.8	BE-7	1.10E-01	1.68E-02
5 PITTSBORO - CONTROL	2/14/2005	3593.2	PB-214	1.98E-03	1.23E-03
5 PITTSBORO - CONTROL	2/14/2005	3593.2	BE-7	9.91E-02	1.72E-02
5 PITTSBORO - CONTROL	5/16/2005	3508.2	BE-7	1.24E-01	1.84E-02
5 PITTSBORO - CONTROL	8/15/2005	3490	PB-214	2.63E-03	1.52E-03
5 PITTSBORO - CONTROL	8/15/2005	3490	BI-214	3.57E-03	1.55E-03
5 PITTSBORO - CONTROL	8/15/2005	3490	PB-212	1.12E-03	6.76E-04
5 PITTSBORO - CONTROL	8/15/2005	3490	K-40	1.88E-02	1.06E-02
5 PITTSBORO - CONTROL	8/15/2005	3490	BE-7	1.01E-01	1.73E-02
5 PITTSBORO - CONTROL	11/14/2005	3528.8	BE-7	1.08E-01	1.65E-02
26 SPILLWAY ON MAIN RES	2/14/2005	3484.1	PB-212	1.88E-03	8.66E-04
26 SPILLWAY ON MAIN RES	2/14/2005	3484.1	BE-7	8.57E-02	1.41E-02
26 SPILLWAY ON MAIN RES	5/16/2005	3299	BE-7	1.45E-01	2.10E-02
26 SPILLWAY ON MAIN RES	8/15/2005	3145	BE-7	1.10E-01	1.81E-02
26 SPILLWAY ON MAIN RES	8/15/2005	3145	PB-214	3.21E-03	1.84E-03

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Air Particulate

Quantity: CUBIC METERS

Concentration (Activity): pCi/cubic meter

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
26 SPILLWAY ON MAIN RES	11/14/2005	3626.5	PB-214	5.08E-03	1.44E-03
26 SPILLWAY ON MAIN RES	11/14/2005	3626.5	BI-214	3.47E-03	1.37E-03
26 SPILLWAY ON MAIN RES	11/14/2005	3626.5	PB-212	1.52E-03	7.29E-04
26 SPILLWAY ON MAIN RES	11/14/2005	3626.5	BE-7	1.09E-01	1.56E-02
47 SSW SECTOR 3.4 MI FROM SITE	2/14/2005	3611.5	BE-7	9.27E-02	1.96E-02
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2005	3487.5	PB-214	3.29E-03	1.55E-03
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2005	3487.5	BE-7	1.45E-01	1.71E-02
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2005	3487.5	K-40	1.17E-02	1.00E-02
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2005	3487.5	BI-214	1.67E-03	1.29E-03
47 SSW SECTOR 3.4 MI FROM SITE	5/16/2005	3487.5	PB-212	1.29E-03	6.19E-04
47 SSW SECTOR 3.4 MI FROM SITE	8/15/2005	3161.8	BE-7	1.06E-01	2.28E-02
47 SSW SECTOR 3.4 MI FROM SITE	11/14/2005	3592	BE-7	1.18E-01	2.33E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Aquatic Vegetation

Quantity: Grams (wet)

Concentration (Activity): pCi/gm wet

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
26 SPILLWAY ON MAIN RES	11/29/2005	655.7	K-40	2.66E+00	3.67E-01
26 SPILLWAY ON MAIN RES	11/29/2005	655.7	BE-7	2.60E-01	1.59E-01
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/29/2005	473.9	AC-228	7.36E-02	5.44E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/29/2005	473.9	CO-60	2.02E-02	1.38E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/29/2005	473.9	K-40	4.14E+00	4.83E-01
41 SHORELINE OF COOLING TOWER MIXING ZONE	11/29/2005	473.9	BE-7	3.01E-01	1.51E-01
61 2.5 MI E SECTOR HOLLEMANS XRD BR	11/29/2005	633.7	K-40	2.75E+00	3.60E-01
61 2.5 MI E SECTOR HOLLEMANS XRD BR	11/29/2005	633.7	BE-7	3.18E-01	1.19E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Bottom Feeder

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: Catfish

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
44 SITE VARIES WITHIN HARRIS LAKE	5/25/2005	530.1	BI-214	1.93E-01	6.32E-02
44 SITE VARIES WITHIN HARRIS LAKE	5/25/2005	530.1	K-40	2.88E+00	7.70E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/28/2005	595.8	K-40	2.66E+00	6.30E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/25/2005	581	PB-212	4.22E-02	3.74E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/25/2005	581	K-40	2.22E+00	7.07E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/30/2005	512.9	PB-214	1.06E-01	6.50E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/30/2005	512.9	K-40	3.40E+00	8.42E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Bottom Sediment

Quantity: GRAMS (dry)

Concentration (Activity): pCi/gm dry

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	CS-137	3.17E-01	7.57E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	TL-208	2.34E-01	8.06E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	PB-212	6.74E-01	1.07E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	BI-214	4.47E-01	1.76E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	PB-214	4.70E-01	1.38E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	RA-226	1.82E+00	8.94E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	AC-228	7.37E-01	3.24E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	CO-58	1.77E-01	9.99E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	K-40	7.14E+00	1.08E+00
52 HARRIS LAKE COOLING TOWER MIXING ZONE	1/26/2005	920.5	CO-60	2.18E+00	1.77E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	CS-137	3.48E-01	7.51E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	TL-208	2.08E-01	6.82E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	PB-212	6.24E-01	7.98E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	BI-214	4.13E-01	1.25E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	PB-214	4.95E-01	1.05E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	AC-228	5.06E-01	2.31E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	CO-58	1.76E-01	6.05E-02
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	CO-60	2.80E+00	1.68E-01
52 HARRIS LAKE COOLING TOWER MIXING ZONE	7/21/2005	1075.8	K-40	8.71E+00	9.94E-01

HNP 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
5	PITTSBORO - CONTROL	FIG LEAF	411.7	BE-7	3.63E-01	1.66E-01
5	PITTSBORO - CONTROL	FIG LEAF	411.7	K-40	3.38E+00	4.84E-01
5	PITTSBORO - CONTROL	FIG LEAF	411.7	TL-208	6.58E-02	2.74E-02
5	PITTSBORO - CONTROL	FIG LEAF	411.7	PB-212	2.33E-01	4.05E-02
5	PITTSBORO - CONTROL	MAPLE	310.1	K-40	3.92E+00	6.00E-01
5	PITTSBORO - CONTROL	MAPLE	310.1	BE-7	3.54E-01	2.32E-01
5	PITTSBORO - CONTROL	SWEETGUM	426.6	BI-214	7.33E-02	6.04E-02
5	PITTSBORO - CONTROL	SWEETGUM	426.6	K-40	3.05E+00	5.53E-01
5	PITTSBORO - CONTROL	SWEETGUM	426.6	TL-208	4.66E-02	3.85E-02
5	PITTSBORO - CONTROL	FIG LEAF	412.5	PB-212	1.01E-01	5.18E-02
5	PITTSBORO - CONTROL	FIG LEAF	412.5	AC-228	1.50E-01	6.83E-02
5	PITTSBORO - CONTROL	FIG LEAF	412.5	TL-208	2.77E-02	2.38E-02
5	PITTSBORO - CONTROL	FIG LEAF	412.5	K-40	3.40E+00	6.03E-01
5	PITTSBORO - CONTROL	FIG LEAF	412.5	BE-7	6.39E-01	2.51E-01
5	PITTSBORO - CONTROL	MAPLE	430.6	BE-7	2.49E-01	1.44E-01
5	PITTSBORO - CONTROL	MAPLE	430.6	K-40	2.42E+00	4.38E-01
5	PITTSBORO - CONTROL	MAPLE	430.6	PB-212	7.38E-02	3.59E-02
5	PITTSBORO - CONTROL	MAPLE	430.6	BI-214	2.56E-01	5.12E-02
5	PITTSBORO - CONTROL	MAPLE	430.6	PB-214	1.32E-01	4.97E-02
5	PITTSBORO - CONTROL	MAPLE	430.6	RA-226	5.36E-01	4.19E-01

HNP 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
5	PITTSBORO - CONTROL	SWEETGUM	460.6	PB-212	1.16E-01	3.66E-02
5	PITTSBORO - CONTROL	SWEETGUM	460.6	BI-214	2.74E-01	6.49E-02
5	PITTSBORO - CONTROL	SWEETGUM	460.6	K-40	2.54E+00	4.99E-01
5	PITTSBORO - CONTROL	SWEETGUM	460.6	BE-7	2.73E-01	2.19E-01
5	PITTSBORO - CONTROL	SWEETGUM	460.6	PB-214	1.50E-01	5.49E-02
5	PITTSBORO - CONTROL	FIG LEAF	458.5	BE-7	8.61E-01	2.65E-01
5	PITTSBORO - CONTROL	FIG LEAF	458.5	K-40	4.57E+00	5.99E-01
5	PITTSBORO - CONTROL	FIG LEAF	458.5	TL-208	6.52E-02	3.18E-02
5	PITTSBORO - CONTROL	FIG LEAF	458.5	PB-212	7.12E-02	4.35E-02
5	PITTSBORO - CONTROL	MAPLE	424.4	BE-7	4.49E-01	1.39E-01
5	PITTSBORO - CONTROL	MAPLE	424.4	K-40	2.26E+00	4.01E-01
5	PITTSBORO - CONTROL	MAPLE	424.4	TL-208	2.82E-02	1.93E-02
5	PITTSBORO - CONTROL	MAPLE	424.4	PB-212	9.40E-02	3.31E-02
5	PITTSBORO - CONTROL	SWEETGUM	342	K-40	2.39E+00	6.04E-01
5	PITTSBORO - CONTROL	SWEETGUM	342	TL-208	6.78E-02	3.25E-02
5	PITTSBORO - CONTROL	SWEETGUM	342	PB-212	7.51E-02	4.73E-02
5	PITTSBORO - CONTROL	FIG LEAF	334	BE-7	2.20E+00	3.82E-01
5	PITTSBORO - CONTROL	FIG LEAF	334	K-40	5.43E+00	7.31E-01
5	PITTSBORO - CONTROL	FIG LEAF	334	AC-228	2.45E-01	1.42E-01
5	PITTSBORO - CONTROL	MAPLE	329.2	BE-7	8.52E-01	2.23E-01

HNP 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
5	PITTSBORO - CONTROL	MAPLE	329.2	K-40	2.82E+00	4.82E-01
5	PITTSBORO - CONTROL	MAPLE	329.2	RA-226	5.62E-01	5.25E-01
5	PITTSBORO - CONTROL	SWEETGUM	375	BE-7	4.47E-01	2.26E-01
5	PITTSBORO - CONTROL	SWEETGUM	375	K-40	2.19E+00	5.10E-01
5	PITTSBORO - CONTROL	SWEETGUM	375	TL-208	3.54E-02	2.83E-02
5	PITTSBORO - CONTROL	SWEETGUM	375	AC-228	1.89E-01	1.08E-01
5	PITTSBORO - CONTROL	SWEETGUM	375	PB-212	1.23E-01	4.63E-02
5	PITTSBORO - CONTROL	FIG LEAF	431.6	BI-212	1.89E-01	1.63E-01
5	PITTSBORO - CONTROL	FIG LEAF	431.6	PB-214	5.94E-02	4.31E-02
5	PITTSBORO - CONTROL	FIG LEAF	431.6	BI-214	5.49E-02	4.61E-02
5	PITTSBORO - CONTROL	FIG LEAF	431.6	K-40	5.54E+00	5.55E-01
5	PITTSBORO - CONTROL	FIG LEAF	431.6	PB-212	4.36E-01	4.52E-02
5	PITTSBORO - CONTROL	FIG LEAF	431.6	AC-228	2.94E-01	7.94E-02
5	PITTSBORO - CONTROL	FIG LEAF	431.6	RA-226	4.47E-01	4.06E-01
5	PITTSBORO - CONTROL	FIG LEAF	431.6	TL-208	1.57E-01	2.98E-02
5	PITTSBORO - CONTROL	FIG LEAF	431.6	BE-7	1.15E+00	2.30E-01
5	PITTSBORO - CONTROL	MAPLE	541.3	K-40	2.09E+00	4.16E-01
5	PITTSBORO - CONTROL	MAPLE	541.3	TL-208	1.61E-01	2.86E-02
5	PITTSBORO - CONTROL	MAPLE	541.3	PB-212	4.45E-01	4.56E-02
5	PITTSBORO - CONTROL	MAPLE	541.3	AC-228	1.01E-01	7.73E-02

HNP 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
5	PITTSBORO - CONTROL	MAPLE	541.3	BE-7	1.11E+00	2.04E-01
5	PITTSBORO - CONTROL	SWEETGUM	514	K-40	2.17E+00	3.64E-01
5	PITTSBORO - CONTROL	SWEETGUM	514	TL-208	1.27E-01	2.61E-02
5	PITTSBORO - CONTROL	SWEETGUM	514	BI-212	2.18E-01	1.66E-01
5	PITTSBORO - CONTROL	SWEETGUM	514	PB-212	3.60E-01	4.25E-02
5	PITTSBORO - CONTROL	SWEETGUM	514	AC-228	2.20E-01	7.10E-02
5	PITTSBORO - CONTROL	SWEETGUM	514	BE-7	5.43E-01	1.66E-01
5	PITTSBORO - CONTROL	SWEETGUM	461.6	K-40	1.90E+00	4.48E-01
5	PITTSBORO - CONTROL	SWEETGUM	461.6	TL-208	1.09E-01	3.40E-02
5	PITTSBORO - CONTROL	SWEETGUM	461.6	AC-228	2.82E-01	9.65E-02
5	PITTSBORO - CONTROL	SWEETGUM	461.6	PB-212	2.84E-01	5.10E-01
5	PITTSBORO - CONTROL	SWEETGUM	461.6	BE-7	1.64E+00	2.60E-01
65	1.36 MI S SECTOR	DOGWOOD	308.6	BI-214	1.12E-01	5.92E-02
65	1.36 MI S SECTOR	DOGWOOD	308.6	PB-212	7.54E-02	5.51E-02
65	1.36 MI S SECTOR	DOGWOOD	308.6	TL-208	4.82E-02	3.62E-02
65	1.36 MI S SECTOR	DOGWOOD	308.6	PB-214	1.17E-01	8.63E-02
65	1.36 MI S SECTOR	DOGWOOD	308.6	K-40	3.16E+00	6.79E-01
65	1.36 MI S SECTOR	DOGWOOD	308.6	BE-7	3.77E-01	2.38E-01
65	1.36 MI S SECTOR	MAPLE	407.9	TL-208	4.29E-02	2.44E-02
65	1.36 MI S SECTOR	MAPLE	407.9	K-40	2.61E+00	4.14E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
65	1.36 MI S SECTOR	5/19/2005	MAPLE	407.9	BE-7	4.71E-01	1.66E-01
65	1.36 MI S SECTOR	5/19/2005	MAPLE	407.9	PB-214	7.79E-02	3.92E-02
65	1.36 MI S SECTOR	5/19/2005	MAPLE	407.9	BI-214	7.92E-02	5.41E-02
65	1.36 MI S SECTOR	5/19/2005	MAPLE	407.9	PB-212	6.74E-02	3.03E-02
65	1.36 MI S SECTOR	5/19/2005	SWEETGUM	429.1	PB-212	9.95E-02	3.97E-02
65	1.36 MI S SECTOR	5/19/2005	SWEETGUM	429.1	BI-214	7.57E-02	5.11E-02
65	1.36 MI S SECTOR	5/19/2005	SWEETGUM	429.1	TL-208	5.15E-02	1.94E-02
65	1.36 MI S SECTOR	5/19/2005	SWEETGUM	429.1	K-40	2.16E+00	5.04E-01
65	1.36 MI S SECTOR	5/19/2005	SWEETGUM	429.1	BE-7	4.31E-01	2.19E-01
65	1.36 MI S SECTOR	6/15/2005	DOGWOOD	322.7	PB-214	6.90E-02	6.11E-02
65	1.36 MI S SECTOR	6/15/2005	DOGWOOD	322.7	BI-212	9.00E-02	7.09E-02
65	1.36 MI S SECTOR	6/15/2005	DOGWOOD	322.7	BE-7	6.13E-01	2.49E-01
65	1.36 MI S SECTOR	6/15/2005	DOGWOOD	322.7	K-40	3.08E+00	7.16E-01
65	1.36 MI S SECTOR	6/15/2005	MAPLE	402.6	K-40	2.64E+00	4.51E-01
65	1.36 MI S SECTOR	6/15/2005	MAPLE	402.6	TL-208	2.90E-02	2.17E-02
65	1.36 MI S SECTOR	6/15/2005	MAPLE	402.6	BE-7	6.07E-01	2.17E-01
65	1.36 MI S SECTOR	6/15/2005	MAPLE	402.6	PB-212	3.50E-02	2.91E-02
65	1.36 MI S SECTOR	6/15/2005	SWEETGUM	405.8	PB-212	8.69E-02	4.60E-02
65	1.36 MI S SECTOR	6/15/2005	SWEETGUM	405.8	TL-208	4.42E-02	2.42E-02
65	1.36 MI S SECTOR	6/15/2005	SWEETGUM	405.8	K-40	1.94E+00	4.97E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
65	1.36 MI S SECTOR	6/15/2005	SWEETGUM	405.8	BE-7	8.57E-01	2.07E-01
65	1.36 MI S SECTOR	7/14/2005	DOGWOOD	364.1	BI-214	9.40E-02	4.57E-02
65	1.36 MI S SECTOR	7/14/2005	DOGWOOD	364.1	BE-7	1.14E+00	1.91E-01
65	1.36 MI S SECTOR	7/14/2005	DOGWOOD	364.1	K-40	1.63E+00	3.96E-01
65	1.36 MI S SECTOR	7/14/2005	DOGWOOD	364.1	PB-214	6.15E-02	4.55E-02
65	1.36 MI S SECTOR	7/14/2005	MAPLE	377	K-40	2.44E+00	6.00E-01
65	1.36 MI S SECTOR	7/14/2005	MAPLE	377	BE-7	5.41E-01	2.38E-01
65	1.36 MI S SECTOR	7/14/2005	SWEETGUM	376.6	K-40	1.98E+00	4.26E-01
65	1.36 MI S SECTOR	7/14/2005	SWEETGUM	376.6	TL-208	2.22E-02	1.92E-02
65	1.36 MI S SECTOR	7/14/2005	SWEETGUM	376.6	PB-212	7.31E-02	3.77E-02
65	1.36 MI S SECTOR	7/14/2005	SWEETGUM	376.6	BE-7	2.66E-01	1.66E-01
65	1.36 MI S SECTOR	8/15/2005	DOGWOOD	321.1	BE-7	1.71E+00	2.83E-01
65	1.36 MI S SECTOR	8/15/2005	DOGWOOD	321.1	K-40	2.18E+00	4.68E-01
65	1.36 MI S SECTOR	8/15/2005	DOGWOOD	321.1	TL-208	2.31E-02	2.03E-02
65	1.36 MI S SECTOR	8/15/2005	MAPLE	323.7	K-40	2.89E+00	5.71E-01
65	1.36 MI S SECTOR	8/15/2005	MAPLE	323.7	BE-7	1.99E+00	2.99E-01
65	1.36 MI S SECTOR	8/15/2005	SWEETGUM	259.8	BE-7	1.52E+00	3.16E-01
65	1.36 MI S SECTOR	8/15/2005	SWEETGUM	259.8	K-40	1.97E+00	6.44E-01
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	BE-7	1.23E+00	2.50E-01
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	TL-208	1.12E-01	2.99E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	BI-212	2.14E-01	1.49E-01
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	PB-212	3.02E-01	4.76E-02
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	BI-214	5.45E-02	4.46E-02
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	PB-214	4.12E-02	3.80E-02
65	1.36 MI S SECTOR	9/15/2005	MAPLE	390.7	K-40	2.52E+00	4.65E-01
65	1.36 MI S SECTOR	9/15/2005	SWEETGUM	454.4	BI-214	7.86E-02	4.40E-02
65	1.36 MI S SECTOR	9/15/2005	SWEETGUM	454.4	PB-212	3.78E-01	5.46E-02
65	1.36 MI S SECTOR	9/15/2005	SWEETGUM	454.4	BE-7	1.37E+00	2.20E-01
65	1.36 MI S SECTOR	9/15/2005	SWEETGUM	454.4	K-40	2.25E+00	5.11E-01
65	1.36 MI S SECTOR	9/15/2005	SWEETGUM	454.4	TL-208	1.27E-01	2.86E-02
65	1.36 MI S SECTOR	10/25/2005	MAPLE	485	PB-212	9.12E-02	3.98E-02
65	1.36 MI S SECTOR	10/25/2005	MAPLE	485	BE-7	6.77E-01	1.74E-01
65	1.36 MI S SECTOR	10/25/2005	MAPLE	485	TL-208	2.98E-02	2.38E-02
65	1.36 MI S SECTOR	10/25/2005	MAPLE	485	BI-214	5.58E-02	4.80E-02
65	1.36 MI S SECTOR	10/25/2005	MAPLE	485	K-40	1.88E+00	4.65E-01
65	1.36 MI S SECTOR	10/25/2005	SWEETGUM	500.4	BE-7	1.18E+00	1.74E-01
65	1.36 MI S SECTOR	10/25/2005	SWEETGUM	500.4	K-40	2.19E+00	3.85E-01
65	1.36 MI S SECTOR	10/25/2005	SWEETGUM	500.4	TL-208	4.05E-02	1.65E-02
65	1.36 MI S SECTOR	10/25/2005	SWEETGUM	500.4	PB-212	9.23E-02	2.96E-02
66	1.33 MI SSW SECTOR	5/19/2005	DOGWOOD	440.7	K-40	2.07E+00	4.52E-01

HNP 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	
66	1.33 MI SSW SECTOR	5/19/2005	DOGWOOD	440.7	BI-214	1.05E-01	4.86E-02
66	1.33 MI SSW SECTOR	5/19/2005	DOGWOOD	440.7	PB-214	8.21E-02	4.92E-02
66	1.33 MI SSW SECTOR	5/19/2005	DOGWOOD	440.7	BE-7	4.05E-01	1.68E-01
66	1.33 MI SSW SECTOR	5/19/2005	MAPLE	328.7	K-40	3.51E+00	7.08E-01
66	1.33 MI SSW SECTOR	5/19/2005	MAPLE	328.7	BI-214	9.91E-02	7.27E-02
66	1.33 MI SSW SECTOR	5/19/2005	MAPLE	328.7	PB-214	7.79E-02	5.49E-02
66	1.33 MI SSW SECTOR	5/19/2005	SWEETGUM	390	BE-7	3.28E-01	1.91E-01
66	1.33 MI SSW SECTOR	5/19/2005	SWEETGUM	390	BI-214	6.28E-02	4.28E-02
66	1.33 MI SSW SECTOR	5/19/2005	SWEETGUM	390	K-40	2.07E+00	4.21E-01
66	1.33 MI SSW SECTOR	6/15/2005	DOGWOOD	342.3	K-40	3.61E+00	6.69E-01
66	1.33 MI SSW SECTOR	6/15/2005	DOGWOOD	342.3	BE-7	1.09E+00	2.99E-01
66	1.33 MI SSW SECTOR	6/15/2005	MAPLE	335.8	TL-208	3.66E-02	2.53E-02
66	1.33 MI SSW SECTOR	6/15/2005	MAPLE	335.8	K-40	2.77E+00	4.88E-01
66	1.33 MI SSW SECTOR	6/15/2005	MAPLE	335.8	BE-7	5.12E-01	1.81E-01
66	1.33 MI SSW SECTOR	6/15/2005	SWEETGUM	410.4	TL-208	4.48E-02	2.61E-02
66	1.33 MI SSW SECTOR	6/15/2005	SWEETGUM	410.4	K-40	2.41E+00	5.20E-01
66	1.33 MI SSW SECTOR	6/15/2005	SWEETGUM	410.4	BE-7	3.71E-01	2.01E-01
66	1.33 MI SSW SECTOR	7/14/2005	DOGWOOD	376.3	BE-7	8.74E-01	2.31E-01
66	1.33 MI SSW SECTOR	7/14/2005	DOGWOOD	376.3	K-40	1.80E+00	5.22E-01
66	1.33 MI SSW SECTOR	7/14/2005	MAPLE	392.9	TL-208	2.52E-02	2.21E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Broadleaf Vegetation

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
66 1.33 MI SSW SECTOR	7/14/2005	MAPLE	392.9	BE-7	9.12E-01	1.72E-01
66 1.33 MI SSW SECTOR	7/14/2005	MAPLE	392.9	K-40	1.95E+00	3.76E-01
66 1.33 MI SSW SECTOR	7/14/2005	SWEETGUM	438.1	BE-7	6.12E-01	2.25E-01
66 1.33 MI SSW SECTOR	7/14/2005	SWEETGUM	438.1	K-40	1.82E+00	4.94E-01
66 1.33 MI SSW SECTOR	7/14/2005	SWEETGUM	438.1	PB-212	6.13E-02	4.56E-02
66 1.33 MI SSW SECTOR	8/15/2005	DOGWOOD	233.7	BE-7	2.79E+00	3.65E-01
66 1.33 MI SSW SECTOR	8/15/2005	DOGWOOD	233.7	K-40	3.06E+00	5.90E-01
66 1.33 MI SSW SECTOR	8/15/2005	MAPLE	320.3	BE-7	2.82E+00	3.58E-01
66 1.33 MI SSW SECTOR	8/15/2005	MAPLE	320.3	K-40	2.68E+00	4.94E-01
66 1.33 MI SSW SECTOR	8/15/2005	SWEETGUM	308.5	BE-7	1.44E+00	3.61E-01
66 1.33 MI SSW SECTOR	8/15/2005	SWEETGUM	308.5	K-40	2.21E+00	7.02E-01
66 1.33 MI SSW SECTOR	8/15/2005	SWEETGUM	308.5	TH-234	1.71E+00	1.63E+00
66 1.33 MI SSW SECTOR	9/15/2005	MAPLE	386.3	BI-212	2.53E-01	2.07E-01
66 1.33 MI SSW SECTOR	9/15/2005	MAPLE	386.3	PB-212	2.92E-01	3.92E-02
66 1.33 MI SSW SECTOR	9/15/2005	MAPLE	386.3	K-40	1.55E+00	3.64E-01
66 1.33 MI SSW SECTOR	9/15/2005	MAPLE	386.3	BE-7	1.76E+00	2.55E-01
66 1.33 MI SSW SECTOR	9/15/2005	MAPLE	386.3	TL-208	1.05E-01	2.82E-02
66 1.33 MI SSW SECTOR	9/15/2005	MAPLE	386.3	RA-226	5.29E-01	3.86E-01
66 1.33 MI SSW SECTOR	9/15/2005	SWEETGUM	523.6	BE-7	1.18E+00	2.32E-01
66 1.33 MI SSW SECTOR	9/15/2005	SWEETGUM	523.6	K-40	1.55E+00	3.71E-01

HNP 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
66 1.33 MI SSW SECTOR	9/15/2005	SWEETGUM	523.6	TL-208	9.21E-02	2.55E-02
66 1.33 MI SSW SECTOR	9/15/2005	SWEETGUM	523.6	PB-212	1.84E-01	4.15E-02
66 1.33 MI SSW SECTOR	9/15/2005	SWEETGUM	523.6	RA-226	3.38E-01	3.23E-01
66 1.33 MI SSW SECTOR	10/25/2005	MAPLE	390.4	RA-226	8.05E-01	5.92E-01
66 1.33 MI SSW SECTOR	10/25/2005	MAPLE	390.4	TL-208	3.02E-02	2.51E-02
66 1.33 MI SSW SECTOR	10/25/2005	MAPLE	390.4	K-40	3.19E+00	6.02E-01
66 1.33 MI SSW SECTOR	10/25/2005	MAPLE	390.4	BE-7	7.01E-01	2.51E-01
66 1.33 MI SSW SECTOR	10/25/2005	SWEETGUM	474.4	BE-7	1.09E+00	1.93E-01
66 1.33 MI SSW SECTOR	10/25/2005	SWEETGUM	474.4	BI-214	3.38E-02	3.19E-02
66 1.33 MI SSW SECTOR	10/25/2005	SWEETGUM	474.4	PB-212	3.21E-02	2.40E-02
66 1.33 MI SSW SECTOR	10/25/2005	SWEETGUM	474.4	K-40	1.92E+00	3.44E-01
66 1.33 MI SSW SECTOR	10/25/2005	SWEETGUM	474.4	TL-208	3.43E-02	1.98E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2005	1.0	BI-214	6.17E+00	3.95E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2005	1.0	K-40	2.78E+02	3.14E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2005	1.0	K-40	5.04E+01	3.82E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2005	1.0	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	1.0	K-40	6.62E+01	3.68E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	1.0	K-40	4.80E+01	3.70E+01
40 LILLINGTON - CAPE FEAR RIVER	1/14/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	2/14/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	3/14/2005	1.0	TL-208	6.62E+00	3.92E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2005	1.0	K-40	1.06E+02	8.16E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	5/13/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	6/13/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	7/11/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	8/11/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	9/12/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	10/13/2005	1.0	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	11/14/2005	1.0	RA-226	3.16E+01	2.82E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2005	1.0	NO-ACT		
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2005	1.0	TL-208	4.20E+00	1.85E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Drinking Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
51 WATER TREATMENT BLDG AT HARRIS PLANT	1/14/2005	1.0	K-40	6.29E+01	4.62E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2005	1.0	TL-208	3.63E+00	2.40E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	2/14/2005	1.0	K-40	6.86E+01	4.73E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	3/14/2005	1.0	K-40	6.06E+02	6.43E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	4/11/2005	1.0	NO-ACT		
51 WATER TREATMENT BLDG AT HARRIS PLANT	5/13/2005	1.0	TL-208	3.77E+00	2.12E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2005	1.0	TL-208	2.13E+00	1.97E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	6/13/2005	1.0	K-40	7.12E+01	4.69E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	7/11/2005	1.0	NO-ACT		
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2005	1.0	K-40	8.52E+01	4.63E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	8/11/2005	1.0	TL-208	3.06E+00	2.17E+00
51 WATER TREATMENT BLDG AT HARRIS PLANT	9/12/2005	1.0	NO-ACT		
51 WATER TREATMENT BLDG AT HARRIS PLANT	10/13/2005	1.0	NO-ACT		
51 WATER TREATMENT BLDG AT HARRIS PLANT	11/14/2005	1.0	K-40	7.52E+01	4.64E+01
51 WATER TREATMENT BLDG AT HARRIS PLANT	12/12/2005	1.0	NO-ACT		

HNP 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
5	PITTSBORO - CONTROL	COLLARDS	602.7	TL-208	1.95E-02	1.69E-02
5	PITTSBORO - CONTROL	COLLARDS	602.7	PB-212	6.25E-02	2.62E-02
5	PITTSBORO - CONTROL	COLLARDS	602.7	BI-214	9.08E-02	2.88E-02
5	PITTSBORO - CONTROL	COLLARDS	602.7	PB-214	4.00E-02	3.13E-02
5	PITTSBORO - CONTROL	COLLARDS	602.7	K-40	4.18E+00	4.08E-01
5	PITTSBORO - CONTROL	COLLARDS	511.9	BE-7	2.45E-01	1.16E-01
5	PITTSBORO - CONTROL	COLLARDS	511.9	K-40	3.83E+00	4.55E-01
5	PITTSBORO - CONTROL	COLLARDS	511.9	TL-208	5.28E-02	1.97E-02
5	PITTSBORO - CONTROL	COLLARDS	511.9	PB-212	9.51E-02	2.31E-02
5	PITTSBORO - CONTROL	COLLARDS	533.9	BE-7	2.17E-01	1.12E-01
5	PITTSBORO - CONTROL	COLLARDS	533.9	K-40	2.95E+00	3.84E-01
5	PITTSBORO - CONTROL	COLLARDS	533.9	PB-212	3.39E-02	2.26E-02
5	PITTSBORO - CONTROL	COLLARDS	505.8	K-40	2.19E+00	4.08E-01
5	PITTSBORO - CONTROL	COLLARDS	505.8	PB-214	3.98E-02	3.55E-02
5	PITTSBORO - CONTROL	COLLARDS	505.8	BI-214	4.97E-02	3.55E-02
5	PITTSBORO - CONTROL	COLLARDS	505.8	TL-208	3.07E-02	1.84E-02
5	PITTSBORO - CONTROL	COLLARDS	505.8	BE-7	1.91E-01	1.01E-01
5	PITTSBORO - CONTROL	COLLARDS	505.8	PB-212	5.74E-02	2.23E-02
5	PITTSBORO - CONTROL	COLLARDS	541.8	K-40	2.43E+00	4.38E-01
5	PITTSBORO - CONTROL	COLLARDS	541.8	TL-208	2.52E-02	1.88E-02

HNP 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
5	PITTSBORO - CONTROL	COLLARDS	541.8	PB-212	4.73E-02	3.57E-02
5	PITTSBORO - CONTROL	COLLARDS	541.8	BI-214	6.45E-02	4.81E-02
5	PITTSBORO - CONTROL	TOMATOES	925.1	K-40	2.03E+00	2.40E-01
5	PITTSBORO - CONTROL	CUCUMBERS	552.5	K-40	1.14E+00	3.17E-01
5	PITTSBORO - CONTROL	SQUASH	474.6	K-40	2.27E+00	4.71E-01
5	PITTSBORO - CONTROL	SQUASH	474.6	BI-214	5.91E-02	5.04E-02
5	PITTSBORO - CONTROL	SQUASH	659.7	K-40	1.54E+00	3.38E-01
5	PITTSBORO - CONTROL	TOMATOES	1060.1	K-40	1.63E+00	2.13E-01
5	PITTSBORO - CONTROL	EGGPLANT	510.3	K-40	1.52E+00	4.14E-01
5	PITTSBORO - CONTROL	TOMATOES	785.3	K-40	2.25E+00	3.12E-01
5	PITTSBORO - CONTROL	EGGPLANT	493.1	K-40	2.92E+00	3.90E-01
5	PITTSBORO - CONTROL	OKRA	380.8	K-40	2.33E+00	4.34E-01
5	PITTSBORO - CONTROL	MUSTARD GREENS	566.5	K-40	3.80E+00	4.13E-01
5	PITTSBORO - CONTROL	MUSTARD GREENS	566.5	TL-208	6.42E-02	2.00E-02
5	PITTSBORO - CONTROL	MUSTARD GREENS	566.5	BI-212	2.03E-01	1.33E-01
5	PITTSBORO - CONTROL	MUSTARD GREENS	566.5	PB-212	2.04E-01	3.32E-02
5	PITTSBORO - CONTROL	MUSTARD GREENS	566.5	BI-214	3.73E-02	3.51E-02
5	PITTSBORO - CONTROL	MUSTARD GREENS	566.5	BE-7	1.85E-01	1.11E-01
5	PITTSBORO - CONTROL	COLLARDS	496.8	BE-7	2.24E-01	1.21E-01
5	PITTSBORO - CONTROL	COLLARDS	496.8	K-40	2.25E+00	4.06E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Food Crop

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

All Media

<i>Sample Point</i>	<i>Sample Date</i>	<i>Media</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5	PITTSBORO - CONTROL	TURNIPS AND GREENS	489.2	TL-208	2.87E-02	1.82E-02
5	PITTSBORO - CONTROL	TURNIPS AND GREENS	489.2	PB-212	5.45E-02	3.10E-02
5	PITTSBORO - CONTROL	TURNIPS AND GREENS	489.2	K-40	3.60E+00	5.23E-01
5	PITTSBORO - CONTROL	COLLARDS	496.8	PB-212	7.88E-01	5.30E-02
5	PITTSBORO - CONTROL	COLLARDS	496.8	BI-212	5.82E-01	1.81E-01
5	PITTSBORO - CONTROL	COLLARDS	496.8	TL-208	2.97E-01	3.48E-01
5	PITTSBORO - CONTROL	COLLARDS	541.8	BE-7	1.51E-01	1.18E-01
5	PITTSBORO - CONTROL	COLLARDS	541.8	K-40	2.10E+00	3.17E-01
54	RD 1189 1.7 MI NNE (WILKINS OR MORRIS)	TOMATOES	875.4	K-40	1.76E+00	2.73E-01
54	RD 1189 1.7 MI NNE (WILKINS OR MORRIS)	CUCUMBERS	774.8	K-40	1.05E+00	2.21E-01
54	RD 1189 1.7 MI NNE (WILKINS OR MORRIS)	CUCUMBERS	791.2	K-40	1.13E+00	2.65E-01
54	RD 1189 1.7 MI NNE (WILKINS OR MORRIS)	TOMATOES	803.4	K-40	2.63E+00	3.22E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	640.8	BE-7	9.67E-02	9.16E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	640.8	K-40	2.80E+00	3.55E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	640.8	PB-212	5.60E-02	1.80E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	640.8	BI-214	1.21E-01	3.41E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	640.8	PB-214	4.08E-02	2.91E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	589.1	K-40	3.42E+00	3.79E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	589.1	BI-214	5.83E-02	3.52E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	COLLARDS	513.6	BI-214	6.64E-02	4.08E-02

HNP 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	
55	RD 1167 1.7 MI NNW (GOODWIN)	3/17/2005	COLLARDS	513.6	K-40	3.78E+00	4.37E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	7/14/2005	TOMATOES	748.5	K-40	2.23E+00	3.31E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	7/14/2005	SQUASH	591.3	K-40	1.59E+00	2.79E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	7/14/2005	CUCUMBERS	850.7	K-40	1.37E+00	2.56E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	8/15/2005	TOMATOES	816	K-40	2.35E+00	2.99E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	8/15/2005	CUCUMBERS	820.6	K-40	1.79E+00	2.57E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	9/19/2005	COLLARDS	460.2	PB-212	8.12E-02	2.99E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	9/19/2005	COLLARDS	460.2	K-40	3.26E+00	4.42E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	9/19/2005	COLLARDS	460.2	TL-208	2.83E-02	2.09E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	10/25/2005	COLLARDS	545.5	TL-208	5.90E-02	2.05E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	10/25/2005	COLLARDS	545.5	K-40	2.27E+00	4.41E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	10/25/2005	COLLARDS	545.5	PB-212	1.41E-01	3.48E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	10/25/2005	COLLARDS	545.5	PB-214	8.12E-02	4.46E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	11/16/2005	COLLARDS	516.6	TL-208	7.03E-02	2.52E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	11/16/2005	COLLARDS	516.6	BI-214	3.75E-02	3.47E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	11/16/2005	COLLARDS	516.6	BE-7	1.64E-01	1.21E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	11/16/2005	COLLARDS	516.6	K-40	2.55E+00	3.73E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	11/16/2005	COLLARDS	516.6	BI-212	1.59E-01	1.21E-01
55	RD 1167 1.7 MI NNW (GOODWIN)	11/16/2005	COLLARDS	516.6	PB-212	1.87E-01	3.62E-02
55	RD 1167 1.7 MI NNW (GOODWIN)	12/19/2005	COLLARDS	573.9	K-40	2.01E+00	3.43E-01

HNP 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	
55	RD 1167 1.7 MI NNW (GOODWIN)	12/19/2005	COLLARDS	573.9	BE-7	3.73E-01	1.06E-01
64	1.8 MI ENE SECTOR (MICHAEL)	1/20/2005	COLLARDS	695.1	BI-214	4.66E-02	3.76E-02
64	1.8 MI ENE SECTOR (MICHAEL)	1/20/2005	COLLARDS	695.1	TL-208	2.31E-02	2.02E-02
64	1.8 MI ENE SECTOR (MICHAEL)	1/20/2005	COLLARDS	695.1	K-40	3.90E+00	4.58E-01
64	1.8 MI ENE SECTOR (MICHAEL)	1/20/2005	COLLARDS	695.1	PB-212	7.90E-02	2.39E-02
64	1.8 MI ENE SECTOR (MICHAEL)	2/16/2005	COLLARDS	527.3	PB-212	6.98E-02	3.15E-02
64	1.8 MI ENE SECTOR (MICHAEL)	2/16/2005	COLLARDS	527.3	TL-208	2.44E-02	1.79E-02
64	1.8 MI ENE SECTOR (MICHAEL)	2/16/2005	COLLARDS	527.3	BE-7	1.49E-01	9.22E-02
64	1.8 MI ENE SECTOR (MICHAEL)	2/16/2005	COLLARDS	527.3	K-40	4.69E+00	4.57E-01
64	1.8 MI ENE SECTOR (MICHAEL)	3/17/2005	COLLARDS	533.4	K-40	3.76E+00	5.03E-01
64	1.8 MI ENE SECTOR (MICHAEL)	3/17/2005	COLLARDS	533.4	PB-212	6.31E-02	3.75E-02
64	1.8 MI ENE SECTOR (MICHAEL)	4/14/2005	COLLARDS	589.2	PB-214	4.61E-02	3.82E-02
64	1.8 MI ENE SECTOR (MICHAEL)	4/14/2005	COLLARDS	589.2	BI-214	1.21E-01	4.67E-02
64	1.8 MI ENE SECTOR (MICHAEL)	4/14/2005	COLLARDS	589.2	PB-212	4.85E-02	2.54E-02
64	1.8 MI ENE SECTOR (MICHAEL)	4/14/2005	COLLARDS	589.2	K-40	4.60E+00	4.51E-01
64	1.8 MI ENE SECTOR (MICHAEL)	7/14/2005	BROCCOLI	493.4	TL-208	4.11E-02	2.29E-02
64	1.8 MI ENE SECTOR (MICHAEL)	7/14/2005	COLLARDS	516.5	TL-208	2.80E-02	2.00E-02
64	1.8 MI ENE SECTOR (MICHAEL)	7/14/2005	COLLARDS	516.5	K-40	4.98E+00	4.81E-01
64	1.8 MI ENE SECTOR (MICHAEL)	7/14/2005	BROCCOLI	493.4	PB-212	6.68E-02	3.88E-02
64	1.8 MI ENE SECTOR (MICHAEL)	7/14/2005	BROCCOLI	493.4	K-40	3.87E+00	5.59E-01

HNP 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
64	1.8 MI ENE SECTOR (MICHAEL)	TOMATOES	895.4	K-40	2.94E+00	2.98E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	516.5	PB-212	6.42E-02	2.98E-02
64	1.8 MI ENE SECTOR (MICHAEL)	TOMATOES	807.8	K-40	2.93E+00	3.35E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	400	RA-226	4.08E-01	3.03E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	400	K-40	4.28E+00	5.55E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	400	BE-7	5.69E-01	1.94E-01
64	1.8 MI ENE SECTOR (MICHAEL)	BROCCOLI	373.2	K-40	4.40E+00	6.05E-01
64	1.8 MI ENE SECTOR (MICHAEL)	BROCCOLI	373.2	BE-7	2.20E-01	1.76E-01
64	1.8 MI ENE SECTOR (MICHAEL)	BROCCOLI	386	PB-212	8.12E-02	4.22E-02
64	1.8 MI ENE SECTOR (MICHAEL)	CABBAGE	460.2	K-40	4.20E+00	5.83E-01
64	1.8 MI ENE SECTOR (MICHAEL)	CABBAGE	460.2	PB-212	7.81E-02	4.08E-02
64	1.8 MI ENE SECTOR (MICHAEL)	BROCCOLI	386	K-40	6.95E+00	6.51E-01
64	1.8 MI ENE SECTOR (MICHAEL)	BROCCOLI	386	TL-208	4.94E-02	2.69E-02
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	504.5	TL-208	7.74E-02	2.73E-02
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	504.5	K-40	3.10E+00	4.43E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	504.5	PB-212	1.86E-01	3.23E-02
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	556.9	PB-212	3.34E-01	3.93E-02
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	556.9	K-40	4.76E+00	5.60E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	556.9	TL-208	1.28E-01	2.58E-02
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	556.9	BI-212	4.23E-01	1.43E-01

HNP 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
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	566.1	BE-7	5.02E-01	1.63E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	566.1	K-40	2.84E+00	4.53E-01
64	1.8 MI ENE SECTOR (MICHAEL)	COLLARDS	566.1	PB-212	3.33E-02	2.39E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Free Swimmer

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: Largemouth Bass

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
44 SITE VARIES WITHIN HARRIS LAKE	5/25/2005	598.4	K-40	2.52E+00	6.82E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/28/2005	602	K-40	2.36E+00	6.61E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/25/2005	576.9	K-40	2.61E+00	6.12E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/28/2005	615.5	K-40	2.28E+00	5.78E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Free Swimmer

Quantity: GRAMS (wet)

Concentration (Activity): pCi/gm wet

Media: Sunfish

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
44 SITE VARIES WITHIN HARRIS LAKE	5/25/2005	518.6	K-40	2.81E+00	8.22E-01
44 SITE VARIES WITHIN HARRIS LAKE	11/28/2005	555.7	K-40	1.43E+00	6.26E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/25/2005	540.8	BI-214	8.95E-02	4.39E-02
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	5/25/2005	540.8	K-40	3.02E+00	7.60E-01
45 SITE VARIES ABOVE BUCKHORN DAM - CONTROL	11/28/2005	517.4	K-40	3.27E+00	8.32E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Groundwater

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
39 DEEP WELL NEAR DIABASE DIKES	2/16/2005	1	NO-ACT		
39 DEEP WELL NEAR DIABASE DIKES	5/19/2005	1	PB-212	5.25E+00	4.19E+00
39 DEEP WELL NEAR DIABASE DIKES	8/24/2005	1	K-40	7.90E+01	7.70E+01
39 DEEP WELL NEAR DIABASE DIKES	11/16/2005	1	NO-ACT		
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	2/16/2005	1	K-40	2.97E+02	6.76E+01
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	5/19/2005	1	K-40	9.57E+01	7.66E+01
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	8/24/2005	1	NO-ACT		
57 0.4 MI SSW SECTOR N BANK ESW INTAKE	11/16/2005	1	NO-ACT		
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	2/16/2005	1	NO-ACT		
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	5/19/2005	1	NO-ACT		
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	8/24/2005	1	K-40	1.31E+02	8.74E+01
58 0.5 MI WSW SECTOR N BANK ESW INTAKE	11/16/2005	1	NO-ACT		
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	2/16/2005	1	NO-ACT		
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	5/19/2005	1	K-40	1.36E+02	8.97E+01
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	5/19/2005	1	PB-212	7.56E+00	5.63E+00
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	8/24/2005	1	NO-ACT		
59 0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD)	11/16/2005	1	NO-ACT		
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	2/16/2005	1	NO-ACT		
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	5/19/2005	1	K-40	1.26E+02	7.61E+01
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	8/24/2005	1	K-40	1.42E+02	8.13E+01
60 0.5 MI ESE SECTOR W BANK OF THOMAS CREEK	11/16/2005	1	PB-212	6.02E+00	5.53E+00

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
5 PITTSBORO - CONTROL	1/4/2005	1	K-40	1.77E+03	2.27E+02
5 PITTSBORO - CONTROL	1/17/2005	1	K-40	1.29E+03	1.97E+02
5 PITTSBORO - CONTROL	2/14/2005	1	K-40	1.49E+03	2.06E+02
5 PITTSBORO - CONTROL	2/28/2005	1	K-40	1.44E+03	2.08E+02
5 PITTSBORO - CONTROL	3/14/2005	1	K-40	1.43E+03	1.76E+02
5 PITTSBORO - CONTROL	3/28/2005	1	K-40	1.46E+03	1.60E+02
5 PITTSBORO - CONTROL	4/11/2005	1	K-40	1.26E+03	2.27E+02
5 PITTSBORO - CONTROL	4/25/2005	1	K-40	1.39E+03	2.06E+02
5 PITTSBORO - CONTROL	4/25/2005	1	RA-226	2.05E+02	1.28E+02
5 PITTSBORO - CONTROL	5/9/2005	1	BI-214	3.85E+01	1.98E+01
5 PITTSBORO - CONTROL	5/9/2005	1	K-40	1.41E+03	2.09E+02
5 PITTSBORO - CONTROL	5/23/2005	1	K-40	1.44E+03	1.71E+02
5 PITTSBORO - CONTROL	6/6/2005	1	K-40	1.39E+03	1.65E+02
5 PITTSBORO - CONTROL	6/20/2005	1	PB-212	1.67E+01	1.22E+01
5 PITTSBORO - CONTROL	6/20/2005	1	K-40	1.46E+03	2.02E+02
5 PITTSBORO - CONTROL	6/20/2005	1	RA-226	2.00E+02	1.81E+02
5 PITTSBORO - CONTROL	7/5/2005	1	K-40	1.31E+03	1.73E+02
5 PITTSBORO - CONTROL	7/18/2005	1	K-40	1.37E+03	1.63E+02
5 PITTSBORO - CONTROL	8/1/2005	1	K-40	1.33E+03	1.97E+02
5 PITTSBORO - CONTROL	8/15/2005	1	K-40	1.32E+03	1.68E+02
5 PITTSBORO - CONTROL	8/15/2005	1	TL-208	6.80E+00	5.50E+00
5 PITTSBORO - CONTROL	9/12/2005	1	K-40	1.42E+03	1.99E+02
5 PITTSBORO - CONTROL	9/26/2005	1	PB-212	1.57E+01	1.28E+01
5 PITTSBORO - CONTROL	9/26/2005	1	K-40	1.44E+03	1.96E+02
5 PITTSBORO - CONTROL	10/10/2005	1	K-40	1.38E+03	2.04E+02
5 PITTSBORO - CONTROL	10/24/2005	1	K-40	1.48E+03	2.07E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Milk

Quantity: Liters

Concentration (Activity): pCi/L

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
5 PITTSBORO - CONTROL	11/7/2005	1	K-40	1.42E+03	2.07E+02
5 PITTSBORO - CONTROL	11/21/2005	1	K-40	1.47E+03	2.05E+02
5 PITTSBORO - CONTROL	12/5/2005	1	K-40	1.38E+03	1.75E+02
5 PITTSBORO - CONTROL	12/5/2005	1	BI-214	2.22E+01	1.66E+01
5 PITTSBORO - CONTROL	12/19/2005	1	BI-214	3.13E+01	1.61E+01
5 PITTSBORO - CONTROL	12/19/2005	1	K-40	1.29E+03	1.56E+02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: *Shoreline Sediment*

Quantity: *GRAMS (dry)*

Concentration (Activity): *pCi/gm dry*

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>	
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	K-40	8.09E+00	8.49E-01
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	TL-208	7.05E-02	2.51E-02
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	PB-212	2.12E-01	3.94E-02
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	BI-214	1.58E-01	4.87E-02
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	PB-214	1.56E-01	4.98E-02
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	BE-7	3.54E-01	1.84E-01
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	AC-228	2.85E-01	9.32E-02
26	SPILLWAY ON MAIN RES	1/26/2005	1273.2	RA-226	7.70E-01	4.83E-01
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	PB-214	2.37E-01	5.79E-02
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	K-40	1.21E+01	9.90E-01
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	TL-208	1.07E-01	3.62E-02
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	BI-214	1.82E-01	6.36E-02
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	BE-7	3.10E-01	1.74E-01
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	RA-226	1.19E+00	6.17E-01
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	AC-228	3.14E-01	1.38E-01
26	SPILLWAY ON MAIN RES	7/21/2005	1352.1	PB-212	2.88E-01	5.56E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	TL-208	1.38E-01	3.49E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	K-40	1.16E+01	1.06E+00
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	PB-212	2.38E-01	5.12E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	BI-214	2.19E-01	8.09E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	PB-214	2.65E-01	7.51E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	AC-228	3.22E-01	1.07E-01
41	SHORELINE OF COOLING TOWER MIXING ZONE	1/26/2005	1337.5	RA-226	7.19E-01	6.57E-01
41	SHORELINE OF COOLING TOWER MIXING ZONE	7/21/2005	1614.5	PB-214	1.59E-01	6.35E-02
41	SHORELINE OF COOLING TOWER MIXING ZONE	7/21/2005	1614.5	BE-7	3.78E-01	2.12E-01
41	SHORELINE OF COOLING TOWER MIXING ZONE	7/21/2005	1614.5	K-40	1.00E+01	9.00E-01

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Shoreline Sediment

Quantity: GRAMS (dry)

Concentration (Activity): pCi/gm dry

<i>Sample Point</i>	<i>Sample Date</i>	<i>Quantity</i>	<i>Isotope</i>	<i>Activity</i>	<i>2 Sigma Error</i>
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/21/2005	1614.5	TL-208	7.40E-02	3.71E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/21/2005	1614.5	PB-212	1.68E-01	5.79E-02
41 SHORELINE OF COOLING TOWER MIXING ZONE	7/21/2005	1614.5	BI-214	1.12E-01	4.61E-02

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
26 SPILLWAY ON MAIN RES	1/14/2005	1	K-40	6.80E+01	4.68E+01
26 SPILLWAY ON MAIN RES	2/14/2005	1	K-40	2.72E+02	3.26E+01
26 SPILLWAY ON MAIN RES	3/14/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	4/11/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	5/13/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	6/13/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	7/11/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	8/11/2005	1	K-40	7.37E+01	4.37E+01
26 SPILLWAY ON MAIN RES	8/11/2005	1	TL-208	2.76E+00	1.33E+00
26 SPILLWAY ON MAIN RES	9/12/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	10/13/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	11/14/2005	1	NO-ACT		
26 SPILLWAY ON MAIN RES	12/12/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	1/14/2005	1	BI-214	6.17E+00	3.95E+00
38 CAPE FEAR PLANT INTAKE - CONTROL	2/14/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	3/14/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	4/11/2005	1	K-40	2.78E+02	3.14E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	5/13/2005	1	K-40	5.04E+01	3.82E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	6/13/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	7/11/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	8/11/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	9/12/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	10/13/2005	1	NO-ACT		
38 CAPE FEAR PLANT INTAKE - CONTROL	11/14/2005	1	K-40	6.62E+01	3.68E+01
38 CAPE FEAR PLANT INTAKE - CONTROL	12/12/2005	1	K-40	4.80E+01	3.70E+01
40 LILLINGTON - CAPE FEAR RIVER	1/14/2005	1	NO-ACT		

HNP Radiological Environmental Monitoring Gamma Isotopic Report

Media Type: Surface Water

Quantity: Liters

Concentration (Activity): pCi/L

Sample Point	Sample Date	Quantity	Isotope	Activity	2 Sigma Error
40 LILLINGTON - CAPE FEAR RIVER	2/14/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	3/14/2005	1	TL-208	6.62E+00	3.92E+00
40 LILLINGTON - CAPE FEAR RIVER	3/14/2005	1	K-40	1.06E+02	8.16E+01
40 LILLINGTON - CAPE FEAR RIVER	4/11/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	5/13/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	6/13/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	7/11/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	8/11/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	9/12/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	10/13/2005	1	NO-ACT		
40 LILLINGTON - CAPE FEAR RIVER	11/14/2005	1	RA-226	3.16E+01	2.82E+01
40 LILLINGTON - CAPE FEAR RIVER	12/12/2005	1	NO-ACT		

Corrections to Annual Radiological Environmental Operating Report for 2004

Figure 9 HNP From 1/1/2004 To 12/31/2004
DRINKING WATER for GROSS BETA - Activity (pCi/Liter)

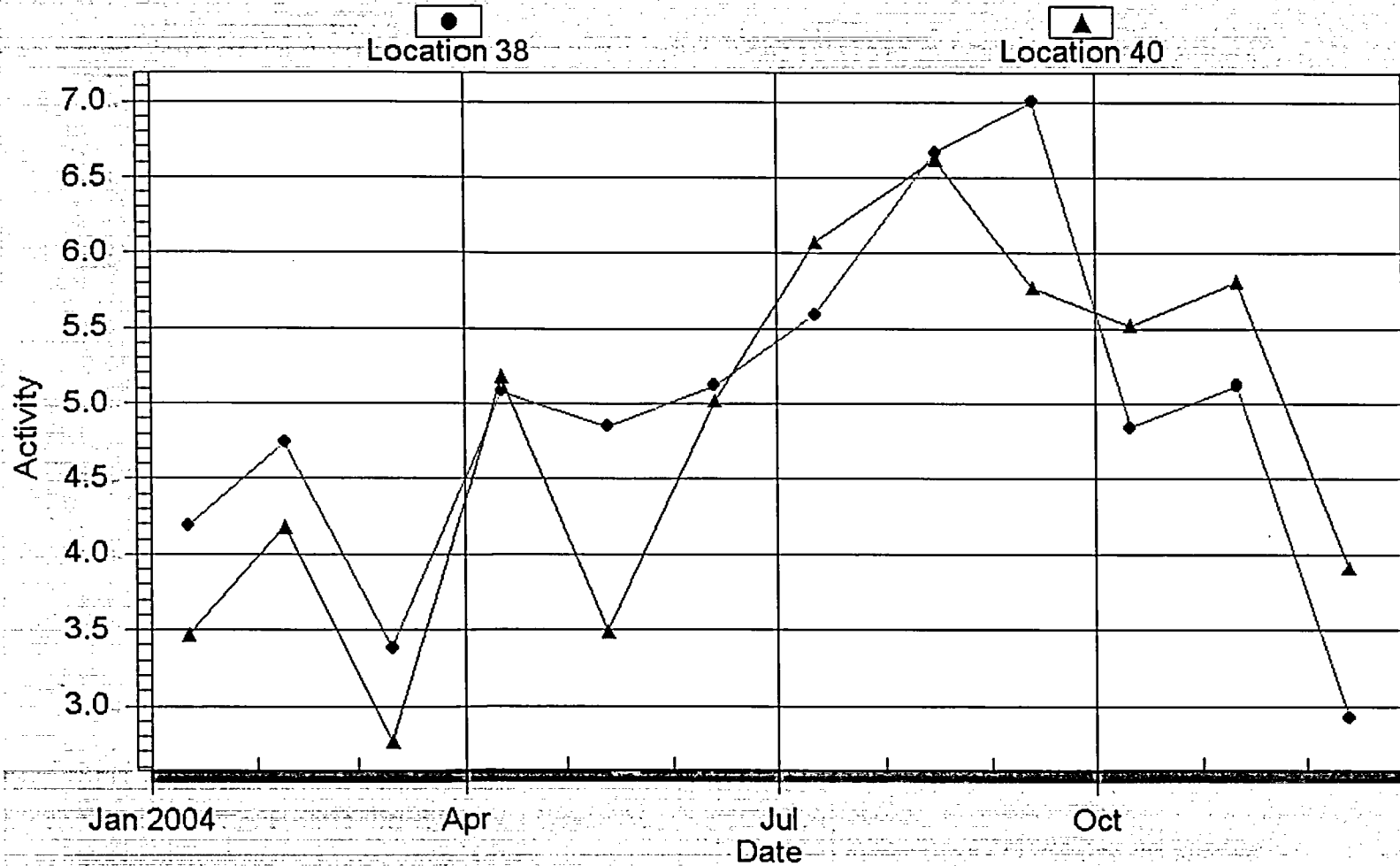


Figure 10 HNP From 1/1/2004 To 12/31/2004
SURFACE WATER for GROSS BETA - Activity (pCi/Liter)

