



Ernest J. Kapopoulos, Jr.  
Vice President  
Harris Nuclear Plant  
5413 Shearon Harris Rd  
New Hill NC 27562-9300

919-362-2502

APR 24 2014

Serial: HNP-14-038

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Shearon Harris Nuclear Power Plant, Unit 1  
Docket No. 50-400

Subject: Annual Radiological Environmental Operating Report

Ladies and Gentlemen:

In accordance with Harris Nuclear Plant Technical Specification 6.9.1.3, Duke Energy Progress, Inc., is providing the enclosed Annual Radiological Environmental Operating Report for 2013.

This submittal contains no regulatory commitments. Please refer any questions regarding this submittal to Dave Corlett, Manager – Regulatory Affairs, at (919) 362-3137.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ernest J. Kapopoulos, Jr.', written in a cursive style.

Ernest J. Kapopoulos, Jr.

Enclosure

cc: Mr. J. D. Austin, NRC Sr. Resident Inspector, HNP  
Mr. A. Hon, NRC Project Manager, HNP  
Mr. V. M. McCree, NRC Regional Administrator, Region II



---

# **ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT**

---

**DUKE ENERGY PROGRESS, INC.**

**SHEARON HARRIS NUCLEAR POWER PLANT**

**2013**



---

# TABLE OF CONTENTS

---

<b>1.0 Executive Summary</b>	1-1
<b>2.0 Introduction</b>	2-1
2.1 Site Description and Sample Locations	2-1
2.2 Scope and Requirements of the REMP	2-2
2.3 Statistical and Calculational Methodology	2-3
2.3.1 Estimation of the Mean Value	2-3
2.3.2 Lower Limit of Detection and Minimum Detectable Activity	2-3
2.3.3 Trend Identification	2-4
<b>3.0 Interpretation of Results</b>	3-1
3.1 Airborne Radioiodine and Particulates	3-2
3.2 Drinking Water	3-7
3.3 Surface Water	3-9
3.4 Ground Water	3-11
3.5 Milk/Broadleaf Vegetation	3-11
3.6 Food Products	3-12
3.7 Aquatic Vegetation	3-12
3.8 Fish	3-13
3.9 Shoreline Sediment	3-13
3.10 Bottom Sediment	3-14
3.11 Direct Gamma Radiation	3-14
3.11.1 Environmental TLD	3-14
3.12 Land Use Census	3-15
3.12.1 Purpose of Land Use Census	3-16
3.12.2 Methodology	3-16
3.12.3 Land Use Census Results	3-17
<b>4.0 Quality Assurance</b>	4-1
4.1 Sample Collection	4-1
4.2 Sample Analysis	4-1
4.3 Dosimetry Analysis	4-1
4.4 Laboratory Equipment Quality Assurance	4-1
4.4.1 Daily Quality Control	4-1
4.4.2 Calibration Verification	4-1
4.4.3 Batch Processing	4-1
4.5 Duke Energy Intercomparison Program	4-2
4.6 Eckert & Ziegler Analytics Cross Check Program	4-2
4.7 ERA Proficiency Testing	4-2
4.8 State of North Carolina Intercomparison Program	4-2

## Appendices

Appendix A: Environmental Sampling and Analysis Procedures . . . . .	A-1
I. Change of Sampling Procedures . . . . .	A-2
II. Description of Analysis Procedures . . . . .	A-2
III. Change of Analysis Procedures . . . . .	A-3
IV. Sampling and Analysis Procedures . . . . .	A-3
A.1 Airborne Particulate and Radioiodine . . . . .	A-3
A.2 Drinking Water . . . . .	A-4
A.3 Surface Water . . . . .	A-4
A.4 Ground Water . . . . .	A-4
A.5 Milk . . . . .	A-5
A.6 Broadleaf Vegetation . . . . .	A-5
A.7 Food Products . . . . .	A-5
A.8 Aquatic Vegetation . . . . .	A-5
A.9 Fish . . . . .	A-6
A.10 Shoreline Sediment . . . . .	A-6
A.11 Bottom Sediment . . . . .	A-6
A.12 Direct Gamma Radiation (TLD) . . . . .	A-6
A.13 Annual Land Use Census . . . . .	A-7
Appendix B: Radiological Environmental Monitoring Program – Summary of Results 2013 . . . . .	B-1
Radiological Environmental Monitoring Program Data Summary. . . . .	B-2
Footnotes to Appendix B . . . . .	B-5
Appendix C: Sampling Deviations and Unavailable Analyses . . . . .	C-1
Air Cartridge and Air Particulates . . . . .	C-2
Food Crops/Products . . . . .	C-2
Drinking/Surface Water . . . . .	C-3
Milk/Broadleaf Vegetation . . . . .	C-3
TLDs . . . . .	C-4
Appendix D: Analytical Deviations . . . . .	D-1
Air Cartridge and Air Particulates . . . . .	D-2
Appendix E: Radiological Environmental Monitoring Program Results 2013 . . . . .	E-1
Appendix F: Errata to Previous Reports . . . . .	F-1
Errata to the 2013 AREOR . . . . .	F-2

## LIST OF FIGURES

2.1-1	Radiological Environmental Sampling Locations (Distant from Plant) . . . . .	2-5
2.1-2	Radiological Environmental Sampling Locations (Distant from Plant). . . . .	2-6
2.1-3	Radiological Environmental Sampling Locations (Nearest Plant). . . . .	2-7
2.1-4	Radiological Environmental Sampling Locations (Nearest Plant). . . . .	2-8
2.1-5	Radiological Environmental Ground Water (GW) Sampling Locations. . . . .	2-9
3.1-1	Air Particulate for Gross Beta – Activity (Location 1 and 5) . . . . .	3-3
3.1-2	Air Particulate for Gross Beta – Activity (Location 2 and 5) . . . . .	3-3
3.1-3	Air Particulate for Gross Beta – Activity (Location 4 and 5) . . . . .	3-4
3.1-4	Air Particulate for Gross Beta – Activity (Location 26 and 5) . . . . .	3-4
3.1-5	Air Particulate for Gross Beta – Activity (Location 47 and 5) . . . . .	3-5
3.1-6	Air Particulate for Gross Beta – Activity (Location 63 and 5) . . . . .	3-5
3.1-7	Air Particulate for Gross Beta – Activity (Location 90 and 5) . . . . .	3-6
3.1-8	Air Particulate for Gross Beta – Activity (Location 91 and 5) . . . . .	3-6
3.2	Drinking Water for Gross Beta - Activity (Location 38 and 40) . . . . .	3-8
3.3-1	Surface Water for Gross Beta - Activity (Location 26 and 38) . . . . .	3-10
3.3-2	HNP 2013 Surface Water Tritium Activity . . . . .	3-10

3.11.1	HNP 2013 TLD Averages for Inner and Outer Ring Locations . . . . .	3-15
3.12	Harris Nuclear Plant 2013 Land Use Census Map. . . . .	3-19

**LIST OF TABLES**

2.1-A	Radiological Monitoring Program Sampling Locations . . . . .	2-10
2.1-B	Radiological Monitoring Program Sampling Locations (TLD Sites) . . . . .	2-11
2.2-A	Reporting Levels for Radioactivity Concentrations in Environmental Samples	2-12
2.2-B	REMP Analysis Frequency . . . . .	2-12
2.2-C	Detection Capabilities for the Lower Limits of Detection. . . . .	2-13
3.0-A	Harris Potential Dose Pathway . . . . .	3-2
3.12.3	Harris Land Use Census Comparison (2012 – 2013). . . . .	3-18
4.0-A	Duke Energy Interlaboratory Comparison Program . . . . .	4-3
4.0-B	Eckert & Ziegler Analytics Cross Check Program . . . . .	4-4
4.0-C	Environmental Resource Associates (ERA) Proficiency Testing . . . . .	4-6

**LIST OF ACRONYMS USED IN THIS TEXT** *(in alphabetical order)*

A	Annually
AC	Air Cartridge
AP	Air Particulate
APAC	Air Particulate Air Cartridge/Radioiodine
BW	BiWeekly
C	Control
CR	Condition Report - Corrective Action Program
DEHNR	Department of Environmental Health and Natural Resources
DW	Drinking Water
ERA	Environmental Resource Associates
GPS	Global Positioning System
GW	Ground Water
HNP	Harris Nuclear Plant or Shearon Harris Nuclear Plant
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
M	Monthly
MDA	Minimum Detectable Activity
mrem	Millirem
Mk	Milk
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m <sup>3</sup>	picocurie per cubic meter
PIP	Problem Investigation Program
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SM	Semimonthly
SW	Surface Water
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
μCi/ml	microcurie per milliliter
W	Weekly

---

# 1.0 EXECUTIVE SUMMARY

---

The Harris Nuclear Plant (HNP) is operated by Duke Energy Progress, Inc. under a license granted by the Nuclear Regulatory Commission (NRC). 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 describes the HNP REMP and the program results for January 1, 2013, through December 31, 2013.

Included in the report are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by plant operations, and a summary of environmental radiological sampling results. Quality assurance practices, sampling deviations, unavailable samples, and program changes are also discussed. Concentrations observed in the environment in 2013 for plant related radionuclides were generally within the ranges of concentrations observed in the past. Inspection of the data showed that radioactivity concentrations were as expected and all positively identified measurements attributed to plant operations were within the HNP ODCM regulatory limits.

Monitoring results for environmental media are summarized as follows:

- Air-monitoring results are lower than the concentrations of radioactivity from pre-operation monitoring. These observations are also consistent with past operational data and control data other than during the timeframe of the 1986 Chernobyl incident and the 2011 Japan earthquake and tsunami which triggered the Fukushima Dai-ichi nuclear power plant incident.
- Milk and broadleaf vegetation monitoring results are similar to all the past years where no I-131 concentrations were detected other than during the timeframe of the 1986 Chernobyl incident and the 2011 Japan earthquake and tsunami which triggered the Fukushima Dai-ichi nuclear power plant incident. Broadleaf vegetation is sampled in lieu of indicator milk samples. The broadleaf vegetation sampling continues since the indicator milk location ceased operation in 2013.
- Terrestrial vegetation includes various crops collected during a growing season and results indicate no by-product/plant-related activity.
- Aquatic organism monitoring includes fish and aquatic vegetation. The fish and aquatic vegetation results indicate no by-product/plant-related activity.
- Surface (and drinking) water results indicate no by-product/plant-related gamma activity.

- Surface water (non-drinking water) results from the Harris Lake spillway show the presence of tritium, which is attributed to plant operation, but is well below the drinking water limit (20,000 pCi/Liter) and the EPA reportable non-drinking water limit (30,000 pCi/Liter). Refer to Section 3.0 Interpretations of Results.
- Ground water results show the presence of tritium; however, the results are well below the drinking water limit (20,000 pCi/Liter) and the EPA reportable non-drinking water limit (30,000 pCi/Liter). Refer to Section 3.0 Interpretations of Results.
- 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, in the environmental monitoring program. The Harris Lake Surface water samples and the Ground water samples revealed tritium concentrations that are well within the applicable regulatory limits.

---

## 2.0 INTRODUCTION

---

### 2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Duke Energy's Harris Nuclear Plant consists of a pressurized water reactor with a net output of approximately 930 MWe (Megawatts 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 approximately fifteen (15) miles northeast of Sanford, North Carolina. The nearest community is New Hill, North Carolina, 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 during the construction of the Harris Plant. The lake is fed by Buckhorn Creek and is approximately 4,400 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 blowdown, and radiological waste process systems.

Fishing, boating, and swimming are popular activities on Harris Lake and other nearby lakes. Duke Energy Progress, 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 residences on the plant site. The chief use of 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.

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. Although the contribution to background radiation is small, Duke Energy Progress, Inc. has established the Radiological Environmental Monitoring Program (REMP) 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.

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 locations are selected because they are unaffected by the operation of the plant. Figures 2.1-1,



2.1-2, 2.1-3, 2.1-4, and 2.1-5 are maps depicting the HNP REMP sampling locations and the Thermoluminescent Dosimeter (TLD) monitoring locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B.

## **2.2 SCOPE AND REQUIREMENTS OF THE REMP**

The Radiological Environmental Monitoring Program (REMP) was established in 1982 at the Harris Nuclear Plant (HNP). Radiation and radioactivity in various environmental media have been monitored for 31 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. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station.

This monitoring program is based on NRC guidance and is conducted in accordance with Operational Requirement 3.12.1 in the HNP Offsite Dose Calculation Manual (ODCM) and applicable procedures; with regards to sample media, sampling locations, sampling frequency and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of plant origin from natural or other “man-made” environmental radioactivity. This program provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public and state and federal agencies concerned with the environment. Reporting levels for activity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by the HNP Offsite Dose Calculation Manual (ODCM), is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR 50. Results are shown in Table 3.12.3.

Participation in an interlaboratory comparison program is performed in fulfillment of HNP ODCM Operational Requirements. The comparison program provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10 CFR 50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

## **2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY**

### **2.3.1 ESTIMATION OF THE MEAN VALUE**

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. "Net activity (or concentration)" is the activity (or concentration) determined to be present in the sample. No "Minimum Detectable Activity", "Lower Limit of Detection", "Less Than Level", or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\bar{x}$  = estimate of the mean,

$i$  = individual sample,

$N$  = total number of samples with a net activity (or concentration),

$x_i$  = net activity (or concentration) for sample  $i$ .

### **2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY**

The Lower Limit of Detection (LLD), and Minimum Detectable Activity (MDA) are used throughout the REMP.

**LLD** - The LLD, as defined in the ODCM as the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield and the radioactive decay of the sample between sample collection and counting. The "required" LLD's for each sample medium and selected radionuclides are given in the ODCM and are listed in Table 2.2-C.

**MDA** - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is

calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement.

### **2.3.3 TREND IDENTIFICATION**

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear plant. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment, but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the Chernobyl accident and the Japan earthquake and tsunami which triggered the Fukushima Dai-ichi nuclear power plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

Radiological Environmental Sampling Locations  
(Distant from Plant)

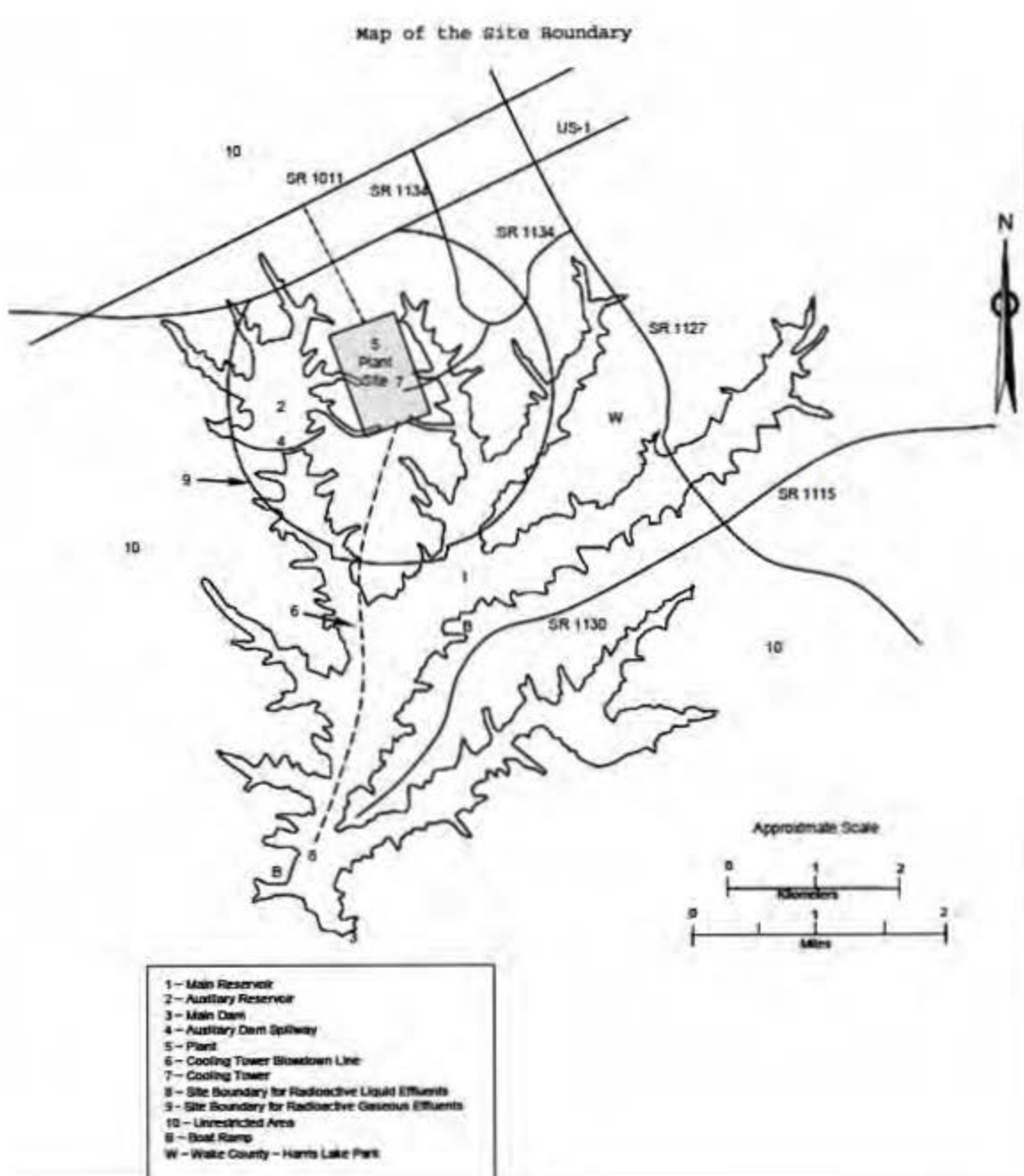


Figure 2.1-2

**Radiological Environmental Sampling Locations  
(Distant from Plant)**

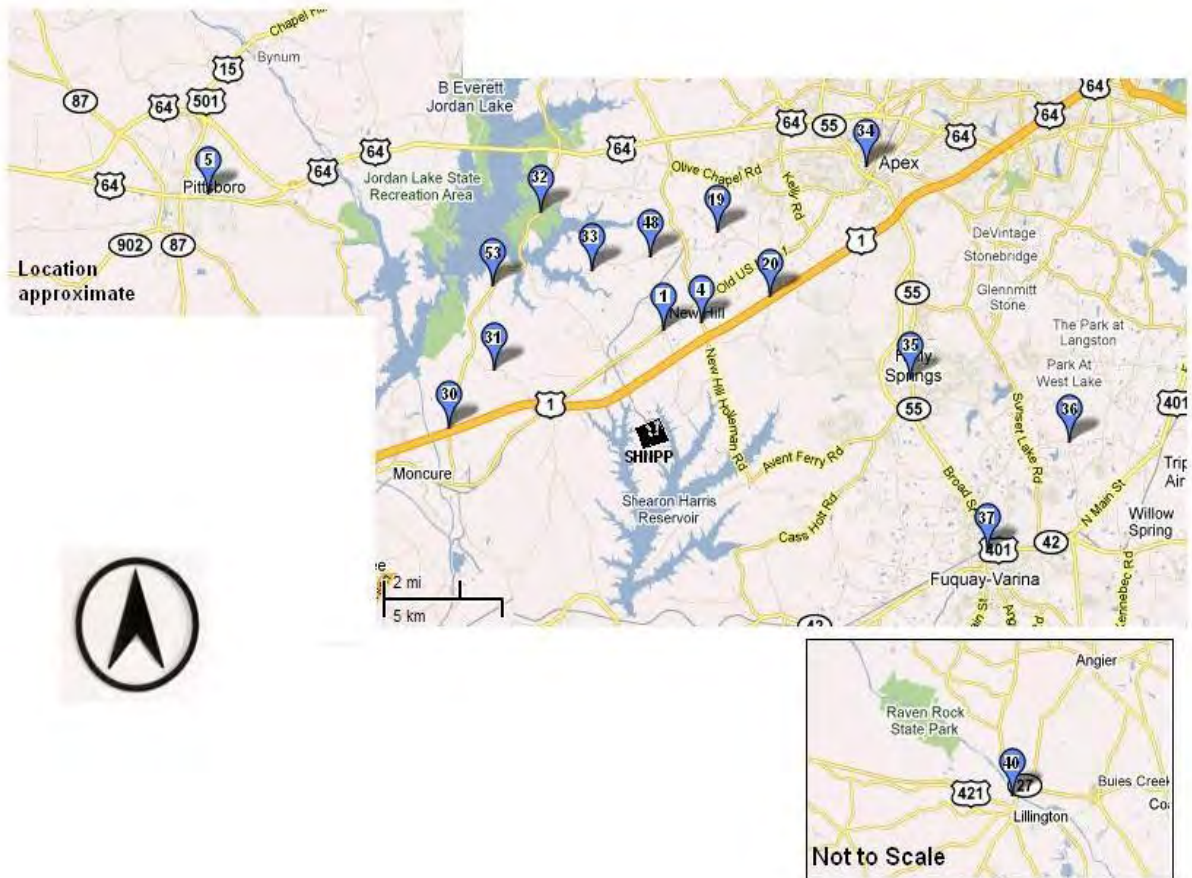


Figure 2.1-3

**Radiological Environmental Sampling Locations  
(Nearest Plant)**



Figure 2.1-4

Radiological Environmental Sampling Locations  
(Nearest Plant)

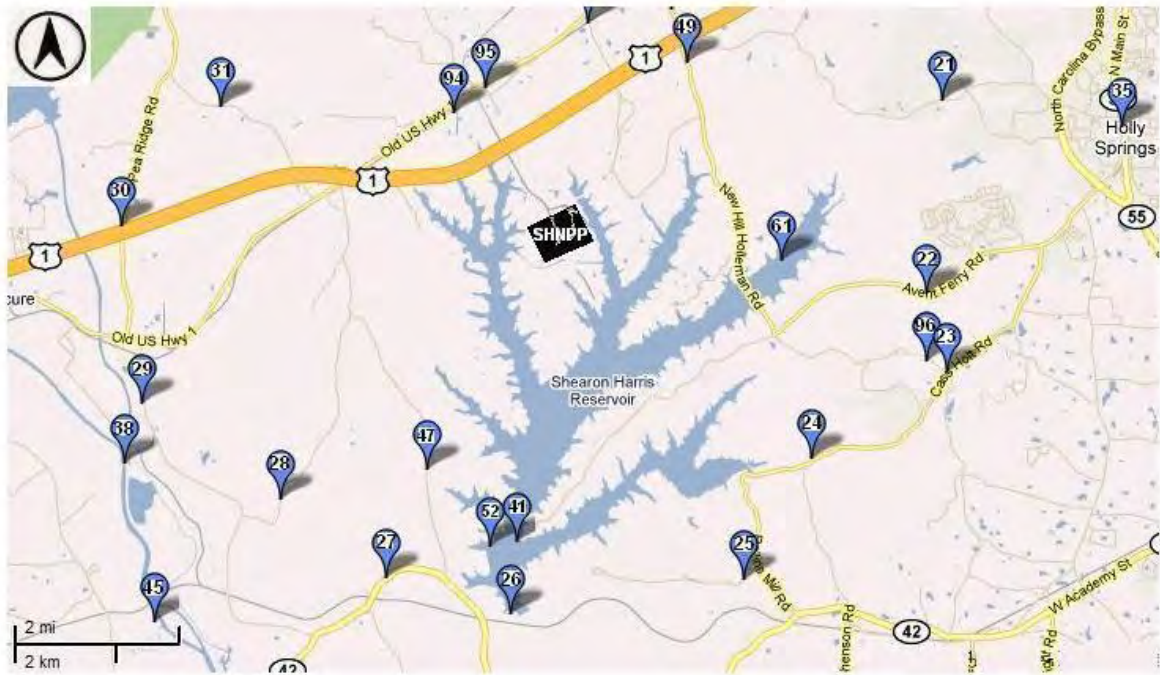


Figure 2.1-5

Radiological Environmental Ground Water (GW) Sampling Locations





**TABLE 2.1-A**

**HARRIS NUCLEAR PLANT**

**RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS**

Table 2.1-A Codes				Table 2.1-A Codes (Cont.)					
W	Weekly	SM	Semimonthly	AC	Air Cartridge	SB	Sediment Bottom	FI	Fish
BW	BiWeekly	Q	Quarterly	AP	Air Particulate	AV	Aquatic Vegetation	MK	Milk
M	Monthly	SA	Semiannually	SW	Surface Water	FP	Food Product		
A	Annual			DW	Drinking Water	BLV	Broadleaf Vegetation		
C	Control	I	Indicator	SS	Sediment Shoreline	GW	Ground Water		

Site #	Type	Location Description*	AC & AP	SW	DW	SS	SB	AV	FP <sup>(a)</sup>	Fish (FI)	Milk (Mk)	BLV <sup>(b)</sup>	GW
1	I	2.6 miles N	W/Q										
2	I	1.4 miles NNE	W/Q										
4	I	3.1 miles NNE	W/Q										
5	C	>12 miles WNW – Pittsboro >12 Miles NNW – Pittsboro (BLV)	W/Q						M <sup>(a)</sup>		SM/M	M <sup>(b)</sup>	
12	I	0.9 miles SSW										M <sup>(b)</sup>	
26	I	4.7 miles S	W/Q	BW/M		SA		A					
38	C	6.2 miles WSW		BW/M	BW/M								
40	I	17.2 miles SSE -- Lillington		BW/M	BW/M								
41	I	3.8 miles S				SA		A					
44	I	Site varies in Harris Lake								SA			
45	C	Site varies in Cape Fear River above Buckhorn Dam								SA			
47	I	3.4 miles SSW	W/Q										
51	I	Water Treatment Building (On Site)			BW/M								
52	I	3.8 miles S					SA						
57	I	0.4 miles SSW											Q
59	I	0.5 miles NNE											Q
60	I	0.5 miles ESE											Q
61	C	2.5 miles E						A					
63	I	0.6 miles SW	W/Q									M <sup>(b)</sup>	
68	I	0.2 miles W											Q
69	I	0.2 miles NNE											Q
70	I	0.4 miles E											Q
71	I	0.3 miles SE											Q
72	I	0.2 miles SE											Q
73	I	0.2 miles S											Q
74	I	0.2 miles SSE											Q
75	I	0.1 miles ESE											Q
76	I	0.1 miles S											Q
77	I	0.4 miles S											Q
78	I	0.5 miles S											Q
79	I	0.5 miles S											Q
80	I	0.6 miles S											Q
81	I	0.6 miles S											Q
82	I	0.6 miles S											Q
83	I	1.6 miles SSW											Q
90	I	0.5 miles SSW	W/Q										
91	I	1.6 miles ENE	W/Q										
96	I	4.6 miles ESE Humbug Farm (not sampled in 2013)									SM/M		

(a) When Available, during Harvest/Growing Season  
 (b) During Growing Season per ODCM – May through October

\* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

**TABLE 2.1-B****HARRIS NUCLEAR PLANT****RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES)**

Table 2.1-B Codes			
IR	Inner Ring	OR	Outer Ring
C	Control	SI	Special Interest

Site #	Measure Type	Location*	Distance (miles)	Sector	Site #	Measure Type	Location*	Distance (miles)	Sector
1	IR		2.6	N	26	OR		4.7	S
2	IR		1.4	NNE	27	OR		4.8	SSW
3	IR		1.9	ENE	28	OR		4.8	SW
4	SI	New Hill (Population Center)	3.1	NNE	29	OR		5.7	WSW
5	C	Pittsboro	>12	WNW	30	OR		5.6	W
6	IR		0.8	ENE	31	OR		4.7	WNW
7	IR		0.7	E	32	SI	Jordan Lake (Population Center)	6.4	NNW
8	IR		0.6	ESE	33	OR		4.5	NNW
9	IR		2.2	SE	34	SI	Apex (Population Center)	8.7	NE
10	IR		2.2	SSE	35	SI	Holly Springs (Population Center)	6.9	E
11	IR		0.6	S	36	SI	Sunset Lake (Population Center)	10.9	E
12	IR		0.9	SSW	37	SI	Fuquay-Varina (Population Center)	9.2	ESE
13	IR		0.7	WSW	48	OR		4.5	N
14	IR		1.5	W	49	IR		2.5	NE
15	IR		2.0	W	50	IR		2.6	ESE
19	OR		5.0	NNE	53	OR		5.8	NW
20	OR		4.5	NE	56	IR		3.0	WSW
21	OR		4.8	ENE	63	IR		0.6	SW
22	OR		4.3	E	67	IR		1.2	ENE
23	OR		4.8	ESE	93	IR		2.2	WNW
24	OR		4.0	SE	94	IR		2.0	NW
25	OR		4.7	SSE	95	IR		2.0	NNW

\* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

**TABLE 2.2-A**

**REPORTING LEVELS FOR RADIOACTIVITY  
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

Analysis	Water (pCi/liter)	Airborne Particulate or Gases (pCi/m <sup>3</sup> )	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)
H-3	20,000 <sup>(a)</sup>				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	2 <sup>(b)</sup>	0.9		3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

(a) For drinking water samples. This is 40 CFR Part 141 value. If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.  
 (b) If no drinking water pathway exists, a value of 20 pCi/liter may be used.

**TABLE 2.2-B**

**REMP ANALYSIS FREQUENCY**

Sample Medium	Analysis Schedule	Gamma Isotopic	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X				
Air Particulate	Weekly				X	
	Quarterly	X				
Direct Radiation	Quarterly					X
Surface Water	Biweekly Composite			X		
	Monthly Composite	X	X		X	
Drinking Water	Biweekly Composite			X		
	Monthly Composite	X	X		X	
Ground Water	Quarterly	X	X			
Bottom Sediment	Semiannually	X				
Shoreline Sediment	Semiannually	X				
Milk	Semimonthly/Monthly	X		X		
Fish	Semiannually	X				
Aquatic Vegetation	Annually	X				
Broadleaf Vegetation	Monthly <sup>(a)</sup>	X				
Food Products	Monthly <sup>(b)</sup>	X				

(a) During growing season per ODCM - - May through October  
 (b) When Available

**TABLE 2.2-C****DETECTION CAPABILITIES FOR THE LOWER LIMIT OF DETECTION**

Analysis	Water (pCi/liter)	Airborne Particulates or Gases (pCi/m <sup>3</sup> )	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01				
H-3	2000 <sup>(a)</sup>					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95	15					
I-131	1 <sup>(b)</sup>	0.07		1	60	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15			15		

(a) If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

(b) If no drinking water pathway exists, a value of 15 pCi/liter may be used.

---

## 3.0 INTERPRETATION OF RESULTS

---

The following section depicts and explains the review of the REMP results conducted during 2013 for the Harris Nuclear Plant (HNP) and fulfills the reporting requirements of Technical Specifications 6.9.1.3 and HNP ODCM E.3. Review of all 2013 REMP analysis results was performed to identify changes in environmental levels as a result of HNP operations. Sample data for 2013 was compared to preoperational and historical data.

Evaluation for significant trends was performed for radionuclides that are listed as required within the HNP ODCM. The radionuclides include: H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140 and La-140. Gross beta analysis results were trended for drinking water and gross beta trending for air particulates was initiated in 1996. Other radionuclides detected that are the result of plant operation, but not required for reporting, are trended.

The HNP ODCM addresses actions to be taken if radionuclides other than those required are detected in samples collected. The occurrences of these radionuclides could be the result of HNP liquid effluents which contained the radionuclides.

A change occurred in 2013 in the analysis procedures, the analysis instrumentation, and the analysis laboratory due to the merger between Progress Energy and Duke Energy. The Harris Energy and Environmental Center (HE&EC) (Progress Energy's central laboratory) was subsequently decommissioned and all laboratory services were consolidated at the EnRad Laboratory in Huntersville, N.C.

Review of all 2013 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from HNP and surrounding areas that were attributable to plant operations. Inspection of the data showed that radioactivity concentrations were as expected and all positively identified measurements attributed to plant operations were within HNP ODCM regulatory limits; thus presenting no significant impact to the environment or public health and safety.

A statistical summary of all the HNP data for 2013 has been compiled and summarized in Appendix B along with any plant-derived activity detected within the scope of the REMP. 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 poses no radiological dose to the general public via this pathway due to the fact that the bottom sediment is not easily accessible. This sample is for long-term trends.

Radioactivity in environmental samples attributed to plant operations in 2013 for which there is a potential dose pathway to the public is seen in Table 3.0-A.

**Table 3.0-A Harris Potential Dose Pathway**

<b>Environmental Media</b>	<b>Radionuclide</b>	<b>Location w/Highest Annual Mean</b>	<b>Activity and Occurrence</b>	<b>Maximum Individual Dose (mrem/yr)</b>
Surface Water	H-3 (tritium)	Harris Lake	8,210 pCi/L (13/13)	No ingestion pathway. No dose calculated.
Fish	H-3 (tritium)	Harris Lake	See above H-3 activity Assume H-3 equilibrium between lake water and fish tissue	0.0181 Total Body

### **3.1 AIRBORNE RADIOIODINE AND PARTICULATES**

All 466 air cartridge/radioiodine (AC) samples from indicator and control stations had I-131 concentrations less than the ODCM LLD of  $7.00E-2$  pCi/m<sup>3</sup>. The air samplers operated for a total of 99.7% availability for the 2013 year. No I-131 activity due to HNP operations has been detected in air samples collected from 1987 through 2013, which is the entire operating history of the plant. However, I-131 was detected in air samples for a three week period following the Fukushima Dai-ichi nuclear power plant incident after the March 11, 2011, earthquake and tsunami (CR # 456564) and for a six-week period following the Chernobyl incident in April 1986.

For the period of January 1, 2013, to December 31, 2013, the gross beta activity was detectable in all airborne particulate (AP) samples, with acceptable runtime, from the eight indicator locations and the control location. The 415 indicator samples had an average concentration of  $1.61E-2$  pCi/m<sup>3</sup>, a value lower than the preoperational data of  $2.00E-2$  pCi/m<sup>3</sup>. Similar gross beta activities were observed at the control location in Pittsboro, which had an average concentration of  $1.65E-2$  pCi/m<sup>3</sup> in 52 control samples. Figures 3.1-1 through 3.1-8 provide a graphic representation of the gross beta activity at the indicator locations compared to the control location for the year 2013. No plant-related gamma activity was observed for any air particulate filters analyzed during 2013. Natural gamma concentrations identified are typical of the natural environment and are not attributed to plant operations. Refer to Appendix C or Appendix D for deviations and unavailable samples in the 2013 collection year.

No plant-related gamma activity was detected in quarterly composite filter samples from either the indicator or control locations during 2013. HNP ODCM LLDs and reporting levels for air particulates are contained in Section 2.0 in Table 2.2-C and 2.2-A respectively.

Figure 3.1-1

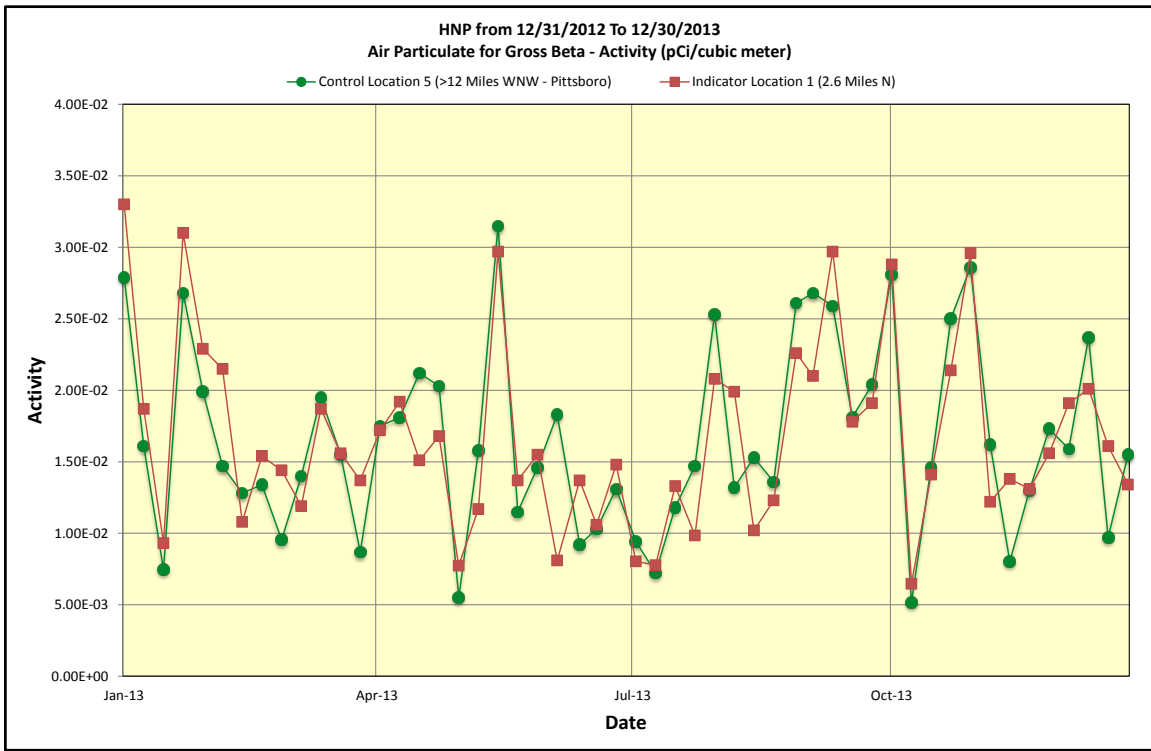


Figure 3.1-2

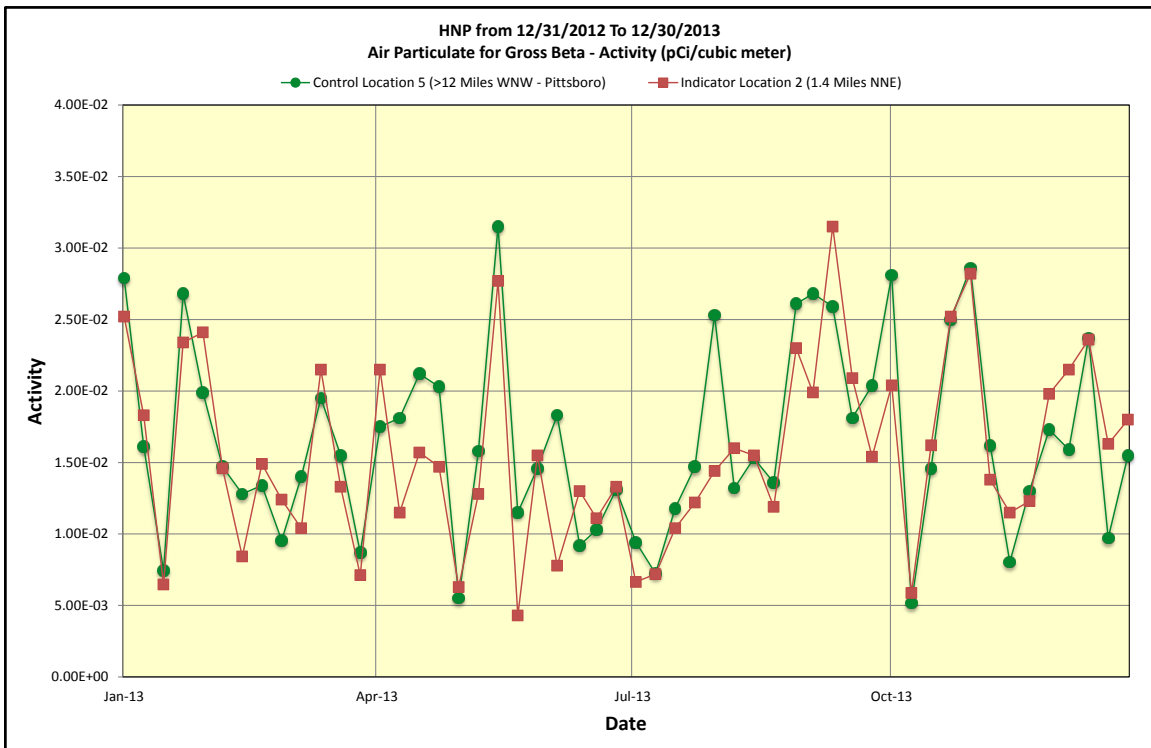


Figure 3.1-3

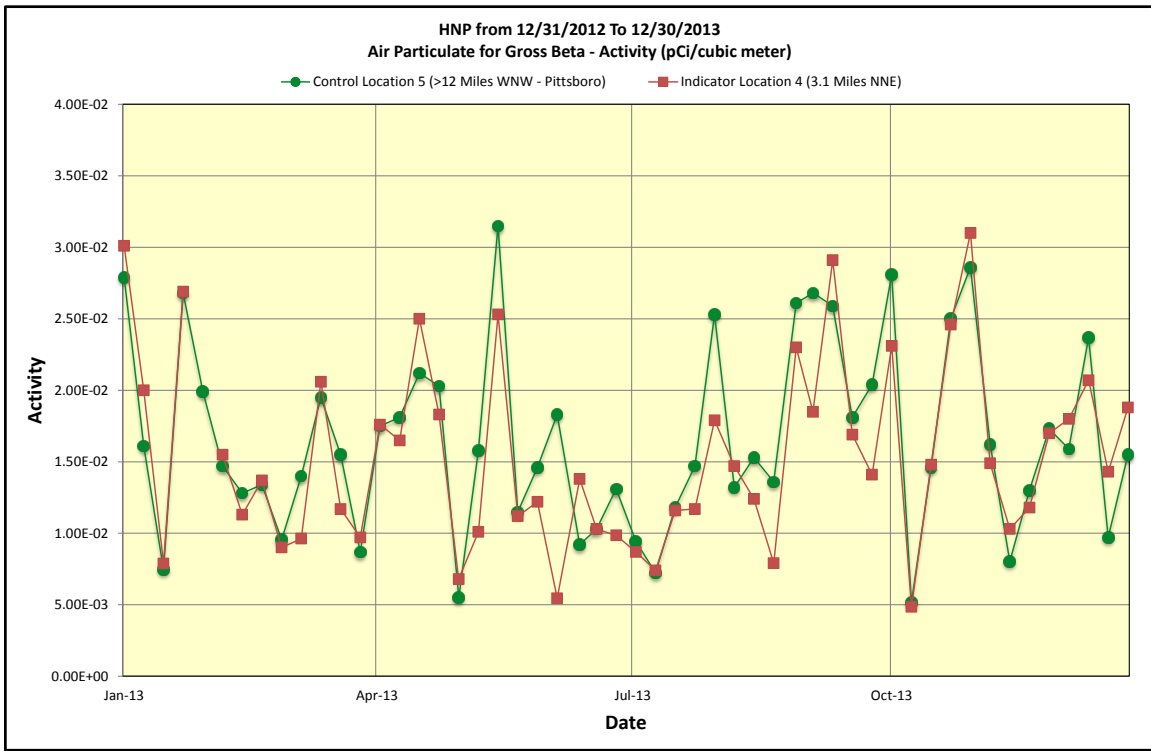


Figure 3.1-4

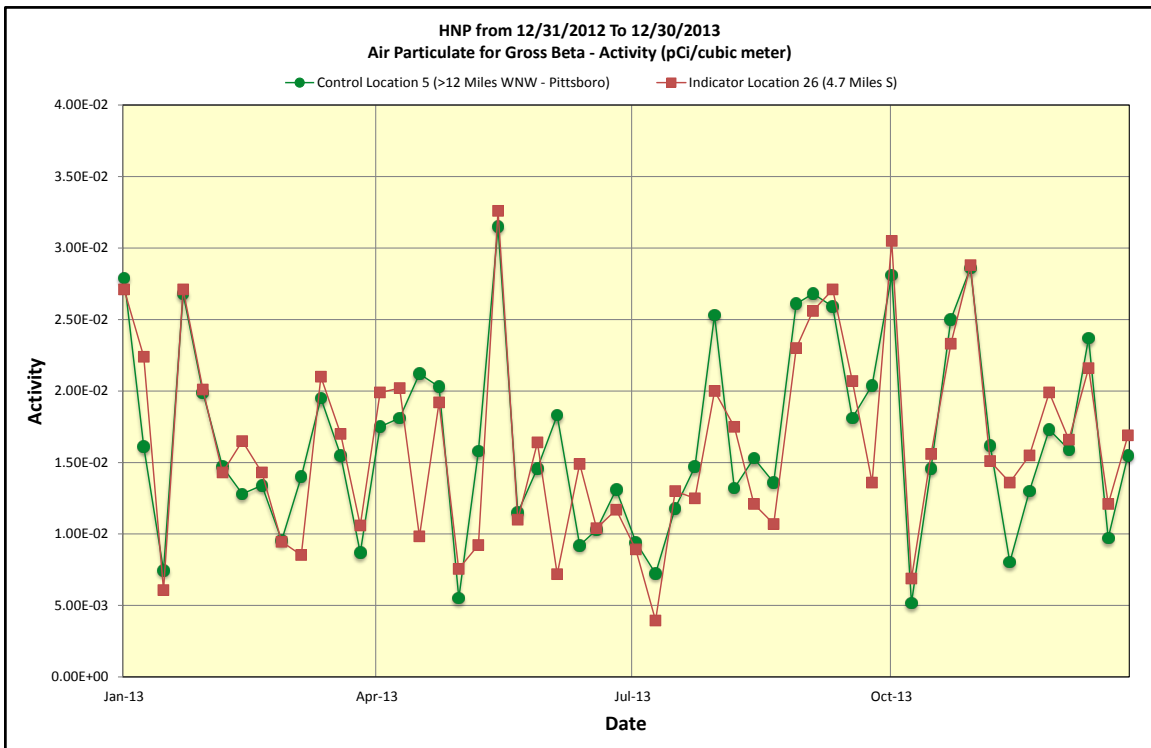




Figure 3.1-5

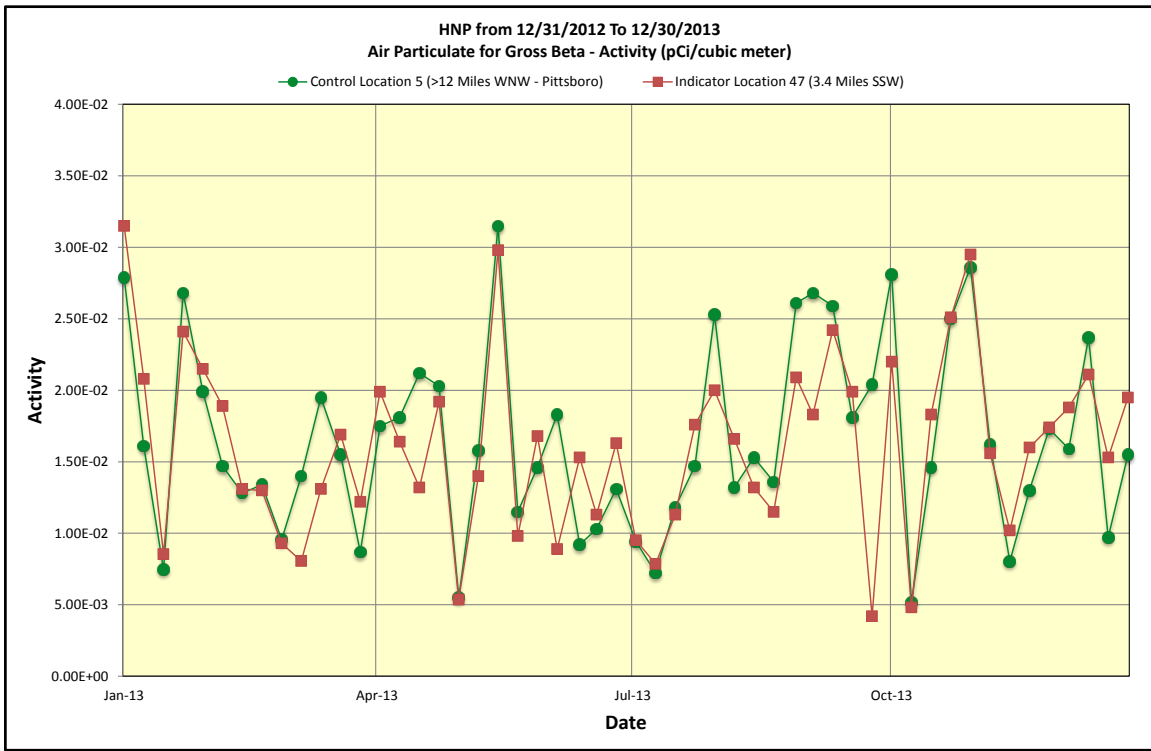


Figure 3.1-6

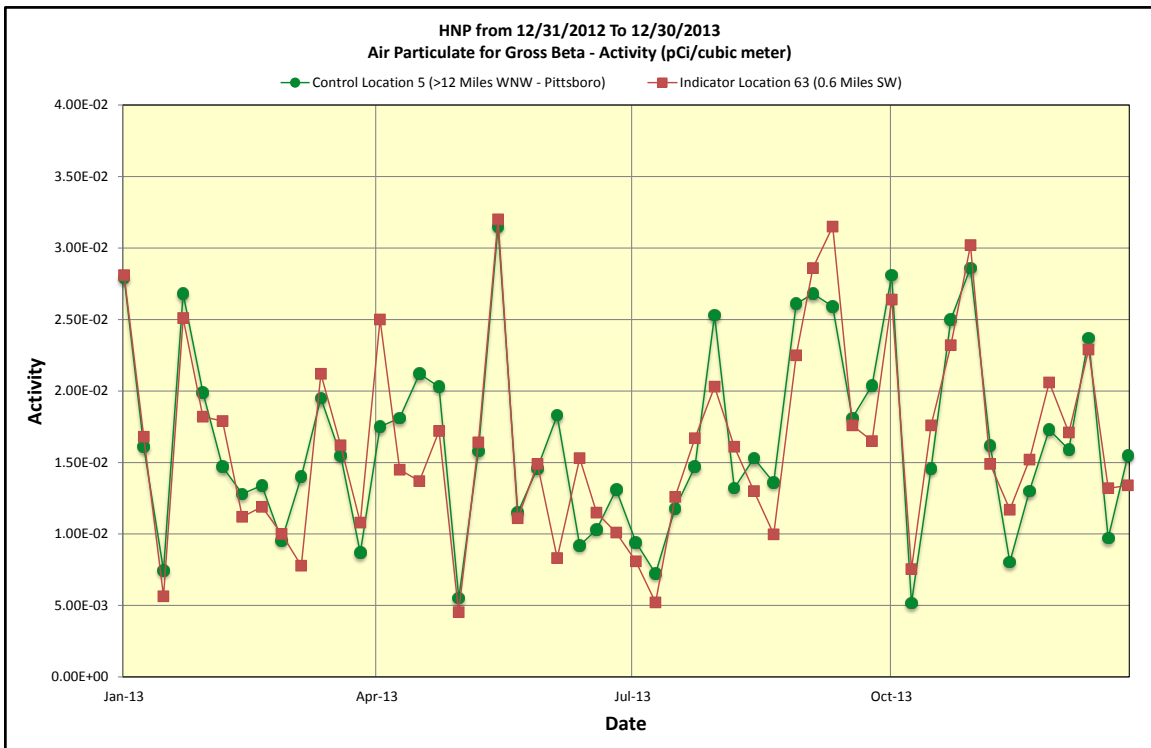


Figure 3.1-7

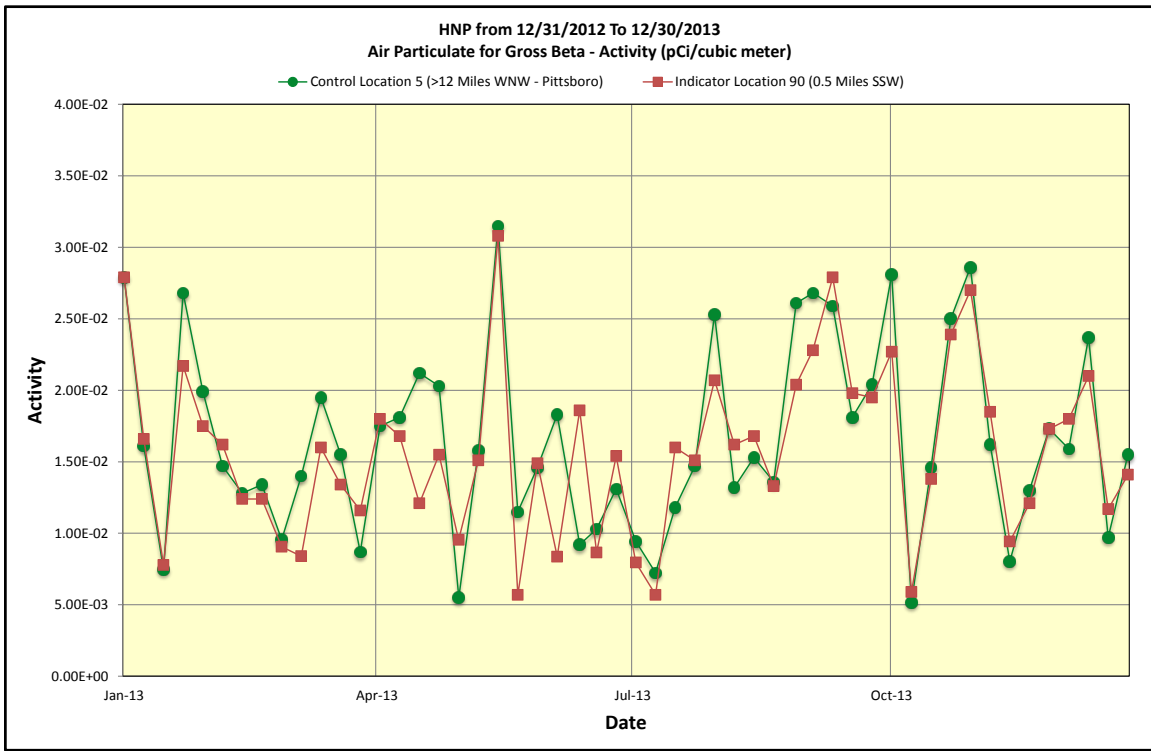
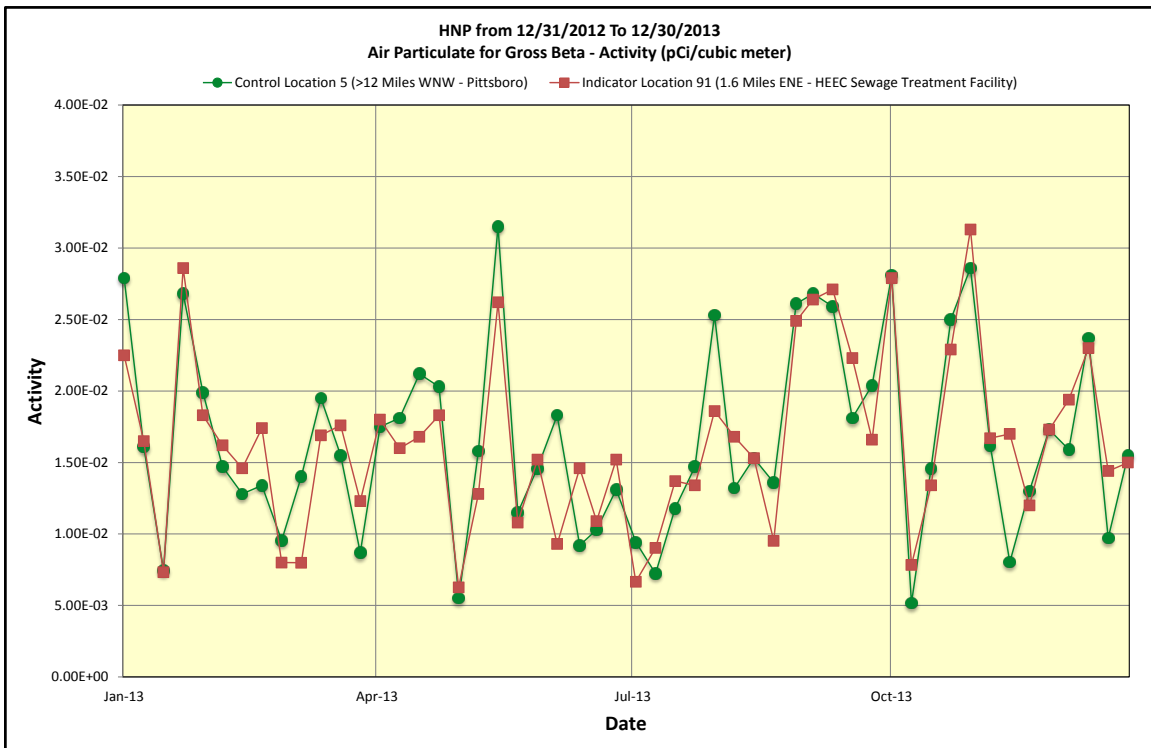


Figure 3.1-8



## 3.2 DRINKING WATER

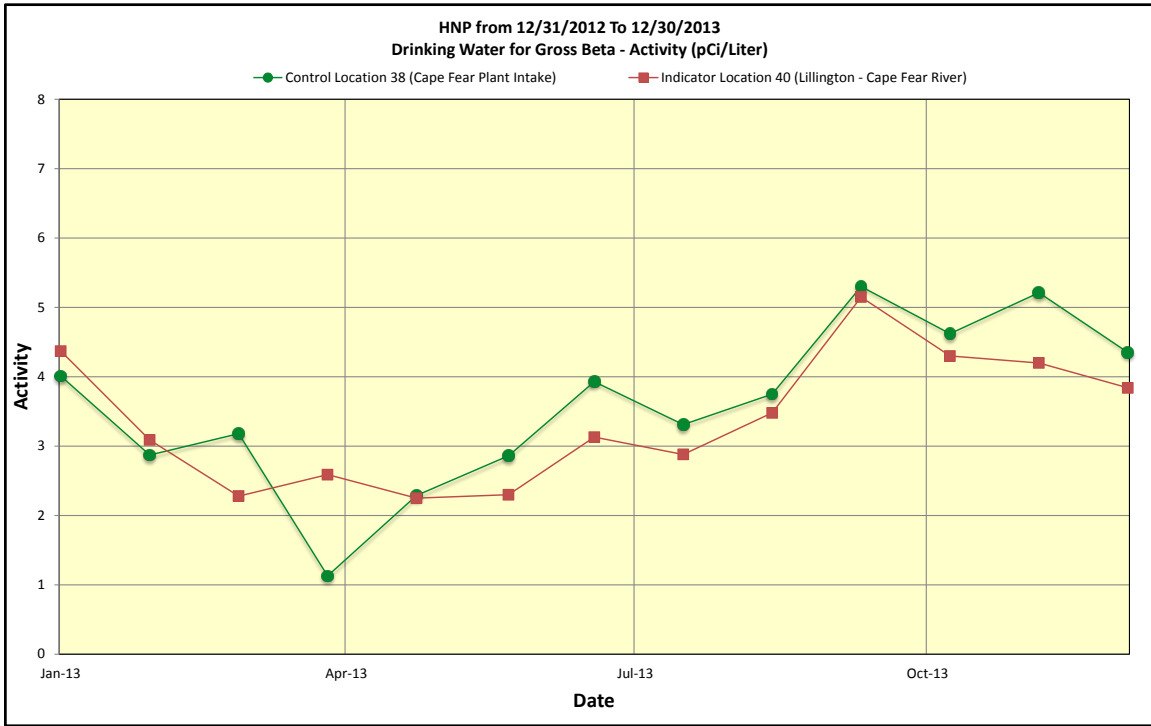
Twenty-six drinking water samples collected at the Lillington Municipal water supply (DW/SW-40), the 26 water treatment building samples (DW-51) at the Harris Plant, and the 26 control samples collected from the Cape Fear River above the Buckhorn Dam (DW/SW-38) contained less than detectable I-131 activity ( $< 1.0\text{E}+0$  pCi/L, HNP ODCM LLD) during 2013. It has typically been the experience for all of the I-131 drinking water samples to contain less than the ODCM LLD ( $< 1.0\text{E}+0$  pCi/L) for the preoperational and operational period with the exception of the 1986 Chernobyl incident and the 2011 Japan earthquake and tsunami which triggered the Fukushima Dai-ichi nuclear power plant incident (CR #458543). The water samplers operated for a total of 98.8% availability for the 2013 year. Refer to Appendix C or Appendix D for deviations and unavailable samples in 2013 collection year.

The average annual gross beta concentrations at the indicator and control locations were  $2.90\text{E}+0$  pCi/L and  $3.60\text{E}+0$  pCi/L, respectively. The preoperational average was  $4.00\text{E}+0$  pCi/L. These concentrations are attributed to the natural environment and are not attributed to plant operations. Figure 3.2 provides graphic representation of the drinking water gross beta activity during 2013 for Location 40 (Lillington) and Location 38 (control at Cape Fear).

Analyses for gamma-emitting radionuclides from plant operations indicated all concentrations were less than the lower limit of detection for drinking water. Table 2.2-C contains ODCM LLD values for gamma-emitting radionuclides in drinking water.

Tritium concentrations in the Lillington Municipal Water Supply samples (DW/SW-40) were less than the ODCM LLD (2000 pCi/L) and the administrative limit (250 pCi/L) (see Appendix B, Footnote 7). The annual average tritium concentration for the Water Treatment Building sample on site (DW-51) was  $5.89\text{E}+3$  pCi/L, with a minimum and maximum value of  $2.55\text{E}+3$  pCi/L and  $9.34\text{E}+3$  pCi/L, respectively.

Figure 3.2



### **3.3 SURFACE WATER**

Surface water samples were collected (weekly) and analyzed (bi-weekly) for I-131. Water samples collected contained less than detectable I-131 activity during 2013. It has typically been the experience for the I-131 surface water samples to contain less than the ODCM LLD ( $< 1.0E+0$  pCi/L) for the preoperational and operational period with the exception of the 1986 Chernobyl incident and the 2011 Japan earthquake and tsunami which triggered the Fukushima Dai-ichi nuclear power plant incident (CR # 458495 and 461822). The water samplers operated for a total of 98.8% availability for the 2013 year. Refer to Appendix C or Appendix D for deviations and unavailable samples in the 2013 collection year.

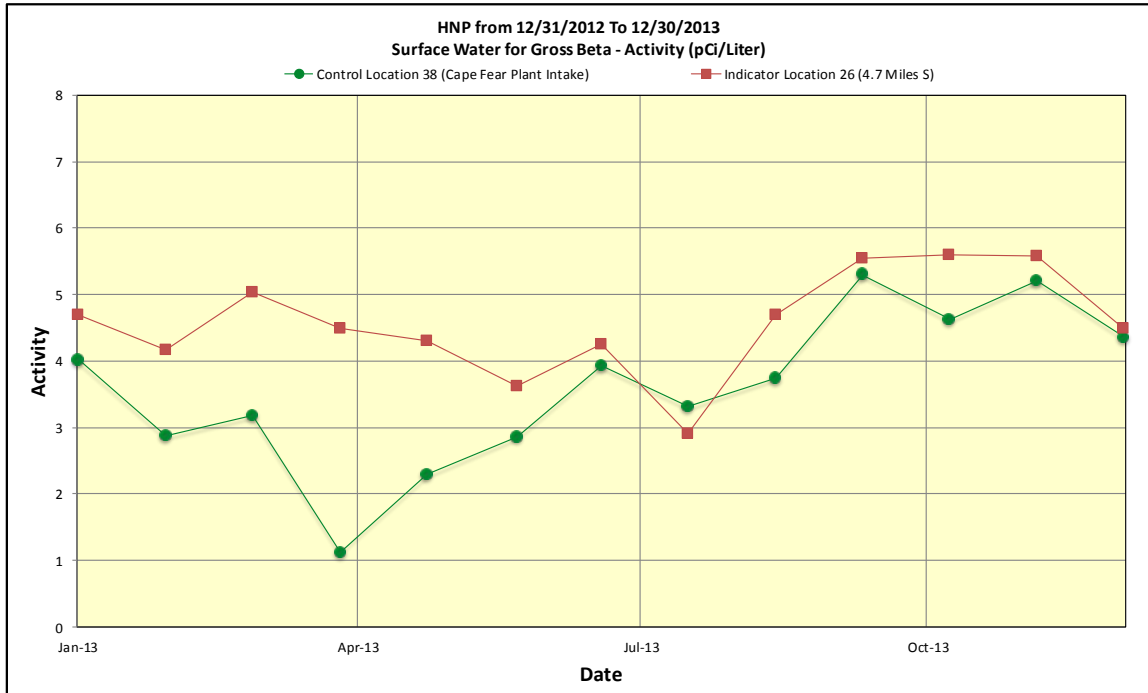
Average gross beta concentrations at the indicator and control locations were  $3.97E+0$  pCi/L and  $3.60E+0$  pCi/L, respectively, in 2013, indicating no contribution from plant operations (See Figure 3.3-1).

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 2.2-C).

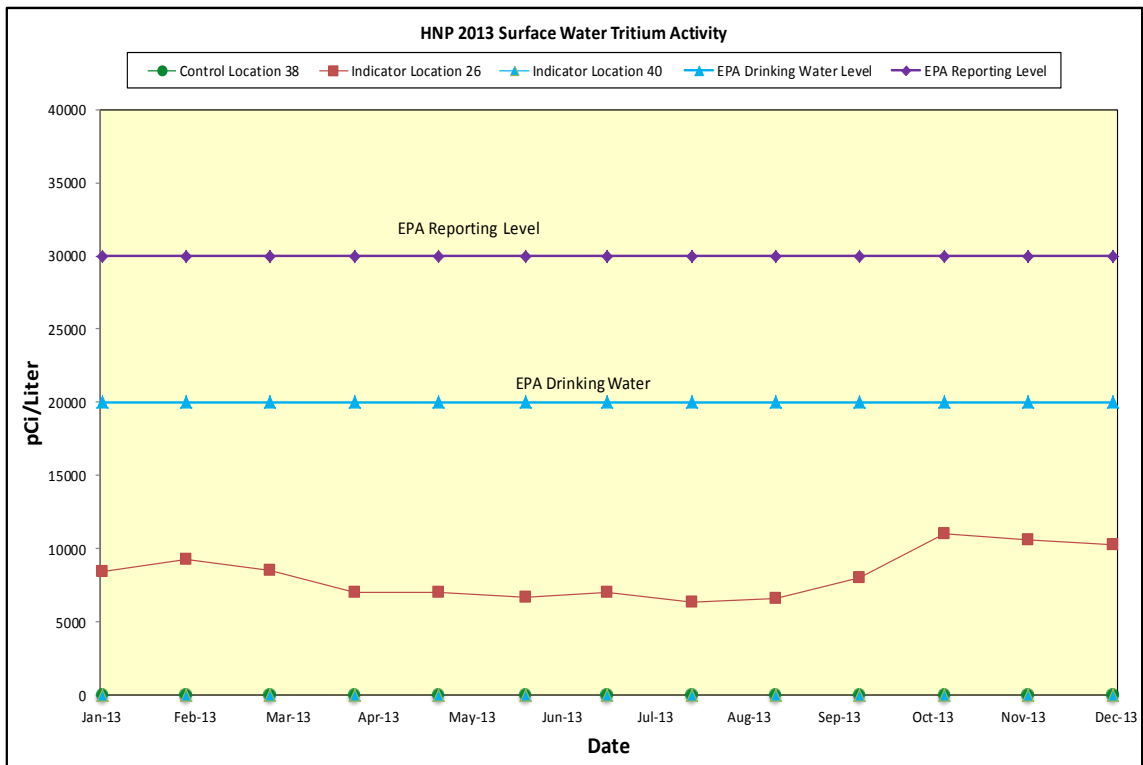
The annual average tritium concentration in Harris Lake at the Spillway was  $8.21E+3$  pCi/L with minimum and maximum values of  $6.38E+3$  pCi/L and  $1.10E+4$  pCi/L, respectively (see Figure 3.3-2). The average Harris Lake Spillway (SW-26) tritium concentration showed a slight increase in tritium compared to the annual average of  $8.08E+3$  pCi/L in 2012. This 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. The increase in the average tritium concentration from 2012 to 2013 is due to the low rainfall in 2013 and the number of liquid waste releases.

The November SW-26 tritium concentration was 11,000 pCi/L, which exceeds the HNP administrative limit for tritium (10,000 pCi/L) in Harris Lake. No regulatory limits were violated or exceeded, so this is not a reportable event. The increase was due to the repeat down powers in 2013, where the plant generated and released a significant amount of liquid waste. The continuing need to release liquid waste causes tritium to accumulate in Harris Lake (CR # 651341 / PIP # G-13-02256).

**Figure 3.3-1**



**Figure 3.3-2**



### **3.4 GROUND WATER**

Ground water samples are collected on site at HNP and analyzed for gamma emitters and tritium. The measured ground water gamma and tritium concentrations were below the required HNP ODCM Table 4.12-1 LLDs for environmental samples and Table 2.2-C, except for GW-83 tritium. The tritium LLDs 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 approximately 250 pCi/L, which is well below the requirements specified in the HNP ODCM.

The ground water tritium analysis shows the presence of tritium, ranging from 228 pCi/Liter to 2.61E+3 pCi/Liter in 2013; however, the results are well below the EPA reportable drinking water limit (20,000 pCi/Liter) and non-drinking water limit (30,000 pCi/Liter). The ground water wells, located on site at HNP, are all monitoring wells and are not a water supply for drinking or irrigation. Therefore, there is no radiological dose via this pathway.

### **3.5 MILK/BROADLEAF VEGETATION**

During 2013, as in all the past years with the exception of the 1986 Chernobyl incident and the 2011 Japan earthquake and tsunami which triggered the Fukushima Dai-ichi nuclear power plant incident (CR #458543), no I-131 activity was detected in the control milk sample. This control milk location is located greater than 12 miles WNW from the plant, thus in an area to be out of the influence of the plant. Gamma analyses revealed no detectable radioactivity from plant operations. Natural gamma activity is consistently identified in each control milk sample. Potassium-40, is a natural occurring nuclide in any organic material. The K-40 concentrations in the milk control samples range from 1.36E+3 pCi/L to 1.82E+3 pCi/L. Other natural occurring nuclides are identified in some of the control milk samples.

In mid-September of 2010, the Humbug Farm (Goat milk indicator MK-96 – located in the ESE sector) was added to the HNP Environmental Monitoring Program. This is a small local goat farm which provides samples of goat milk during the spring and summer months. The dairy's Nubian and Saanen goats only produce milk about six months per year – from around March to September/October. In 2013, the Humbug Farm ceased operations (CR # 604191 / PIP # G-13-00704); therefore, no indicator milk samples were collected. In May of 1997, the Maple Knoll Dairy (indicator MK-42 - located in the SSE sector) ceased operations.

In lieu of the monthly 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 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 during the growing season (May through October), at two locations at the site boundary (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 gamma analyses on the broadleaf vegetation did not detect any plant-related radioactivity in any of the broadleaf vegetation (Fig Leaf, Maple, Sweetgum, and Wax Myrtle) in 2013. Refer to Appendix C or Appendix D for deviations and unavailable samples in the 2013 collection year.

### **3.6 FOOD PRODUCTS**

None of the gardens identified during past or present annual Land Use Census are irrigated by water in which liquid plant wastes have been discharged. In July 2006, Revision 18 of the HNP ODCM identified that food crop collection was above and beyond requirements and were no longer required to be collected. In order to maintain historical trends, an indicator location (#55) and control location (#5) were sampled and reported in the current year's data report (CR # 141151). In September 2013, Revision 24 of the HNP ODCM reinstated control location #5 into the monthly Radiological Environmental Monitoring Program to ensure the food crop pathway was monitored (CR # 613179).

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 2013 included collards, okra, and tomatoes. Gamma analyses of the food crops detected no plant-related activity in five (5) samples from an indicator location and three (3) samples from control locations collected in 2013. The individual, from control location 5 in 2013, did not plant a large enough variety of produce or the garden did not produce three (3) different kinds of food crops/products. This was mostly due to seasonal unavailability, lack of sufficient quantity planted or lack of a variety of crops planted, and crops being too small to harvest at the time of collection. Therefore, food crop/product from location 5 (control) was not available for sampling September, October, November, and December of 2013, which constitutes a deviation to the program (see Appendix C).

### **3.7 AQUATIC VEGETATION**

The 2013 data shows that there were two aquatic vegetation indicator samples and one control sample 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 no plant-related activity in the two indicator samples or the one control sample collected during 2013. No long-term trends are readily observed in these samples.



### 3.8 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 2013, other than naturally occurring nuclides. This is consistent with the data for 1989-2012. During the Chernobyl period, Cs-134 and Cs-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 0.0181 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:

	<b>Child</b>	<b>Teenager</b>	<b>Adult</b>
<b>Consumption of fish kg/yr</b>	6.9	16	21
<b>Dose (Total Body/Organ) mrem/yr</b>	0.0115	0.0139	0.0181

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 0.0115, 0.0139, and 0.0181 mrem/year respectively.

### 3.9 SHORELINE SEDIMENT

Shoreline sediment samples were collected semiannually in 2013 from opposite the discharge structure and near the main dam. Gamma analyses of the shoreline sediments

detected all natural activity in the samples collected during 2013. No long-term trends are readily observed in these samples.

### **3.10 BOTTOM SEDIMENT**

During 2013, a total of 2 bottom sediment samples were analyzed from the indicator location.

The 2013 data shows Co-58 (2.84E+1 pCi/kg dry), Co-60 (2.40E+2 pCi/kg dry to 6.00E+2 pCi/kg dry), Cs-137 (1.59E+2 pCi/kg dry to 2.28E+2 pCi/kg dry), and Sb-125 (7.70E+1 pCi/kg 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 underwater). These samples are for long-term trends for liquid effluents.

### **3.11 DIRECT GAMMA RADIATION**

#### **3.11.1 ENVIRONMENTAL TLD**

In 2013, 174 TLDs were analyzed, 170 at indicator locations and 4 at the control location. TLDs are collected and analyzed quarterly.

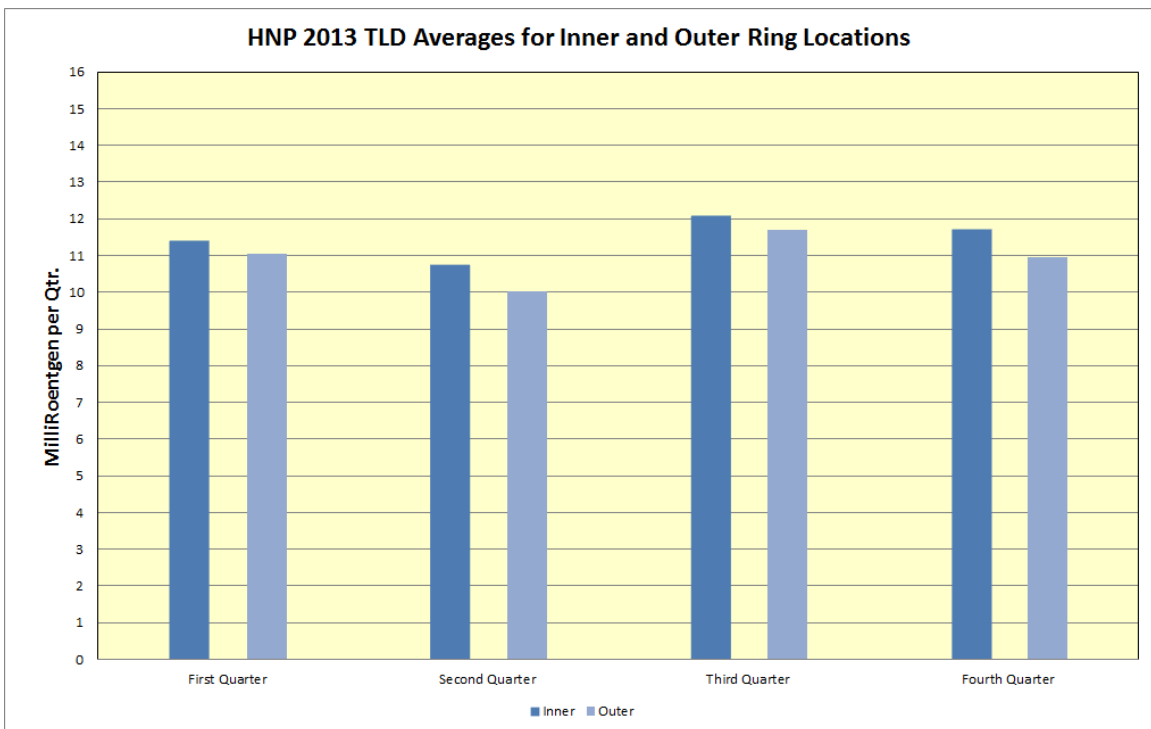
Thermoluminescent dosimeters (TLDs) were used to monitor ambient radiation exposures in the plant environs. The average quarterly exposure at the indicator and control locations was 11.3 mR/std. qtr. and 14.7 mR/std. qtr. respectively. The highest indicator location was 8.7 miles NE of the plant (Apex at Population Center) and its average was 15.1 mR/std. qtr. The differences among these locations are attributed to variations in soils, local geology, and are not the result of plant operations. There were two missing TLDs during the HNP 2013 collection period (CR # 600766 and CR # 634519).

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 3.11.1. These data illustrate that the quarterly inner ring TLD exposures for all four quarters of 2013 are slightly higher than the outer ring TLD exposures.

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. The 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.

**Figure 3.11.1**



### **3.12 LAND USE CENSUS**

The 2013 HNP Annual Land Use Census was conducted August 13 and August 14, 2013, as required by the HNP ODCM 4.12.2. Table 3.12.3 summarizes the 2013 census results. A map indicating identified locations is shown in Figure 3.12. During the 2013 census no irrigated gardens or milk locations were identified within five miles (8 kilometers) of HNP. No environmental program changes were required as a result of the 2013 Land Use Census.

### **3.12.1 PURPOSE OF 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 (8 kilometer) 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 or eating goat cheese 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.

### **3.12.2 METHODOLOGY**

The following must be identified within the five-mile (8 kilometer) 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.

### **3.12.3 LAND USE CENSUS RESULTS**

The 2012 and 2013 results of the survey for the nearest resident, garden, milk and meat animals in each sector are compared in Table 3.12.3.

The nearest resident in each sector remained the same from 2012 to 2013, except in the SE, SSE, and W sectors. No gardens were located within 5 miles of the plant for the NNE, NE, ENE, E, SE, and S sectors. The gardens located in 2013 were the same as the gardens located in 2012, except for the addition of four new gardens, which are located in the SSE sector (at 4.26 miles), the SW sector (at 2.9 miles), the W sector (at 3.73 miles), and the WNW sector (at 4.68 miles). The garden in the SSW sector at 4.3 miles in 2012 was no longer available during the 2013 census, but a garden was located at 3.8 miles in the SSW sector in 2013. All meat animals located in 2013 were the same as 2012, except in the E sector (at 1.7 miles), the SE sector (at 4.11 miles), the SSW sector (at 3.93 miles), the W sector (at 4.12 miles), and the WNW sector (at 4.68 miles). No meat animals were found in the NNE, NE, SSE, and S sectors in 2013. Milk goats found in the ESE sector in 2012 are no longer available and were not incorporated into the 2013 HNP environmental monitoring sample program. The resident in the S sector, although technically just outside the 5-mile radius, has again been included in the data because of the historical prevailing winds. Harris Lake County Park was included in the 2011 survey based on the described plans that in the future permanent residents (rangers and a campground) would be on the Park site; however, since the 2011 survey the plans have changed and permanent residents will not occur. Therefore, the Harris Lake County Park was not included in the 2013 Land Use Census survey.

**Table 3.12.3 Harris Land Use Census Comparison (2012 – 2013)**

Nearest Pathway (Miles)

SECTOR	RESIDENT		GARDEN		MEAT ANIMAL		MILK ANIMAL	
	2012	2013	2012	2013	2012	2013	2012	2013
N	2.2	2.2	2.2	2.2	2.2	2.2	---	---
NNE	1.9	1.9	---	---	---	---	---	---
NE	2.3	2.3	---	---	---	---	---	---
ENE	1.6	1.6	---	---	1.8	1.8	---	---
E	1.7	1.7	---	---	---	1.7*	---	---
ESE	2.6	2.6	4.6	4.6	4.6	4.6	4.7	---*
SE	2.6	4.11*	2.6	---*	2.6	4.11*	---	---
SSE	4.2	4.26*	---	4.26*	---	---	---	---
S	5.3	5.3	---	---	---	---	---	---
SSW	3.8	3.8	4.3	3.8*	---	3.93*	---	---
SW	2.9	2.9	---	2.9*	2.9	2.9	---	---
WSW	4.5	4.5	4.5	4.5	4.5	4.5	---	---
W	3.0	2.75*	---	3.73*	---	4.12*	---	---
WNW	2.5	2.5	---	4.68*	---	4.68*	---	---
NW	2.4	2.4	2.4	2.4	2.4	2.4	---	---
NNW	1.6	1.6	2.0	2.0	2.0	2.0	---	---

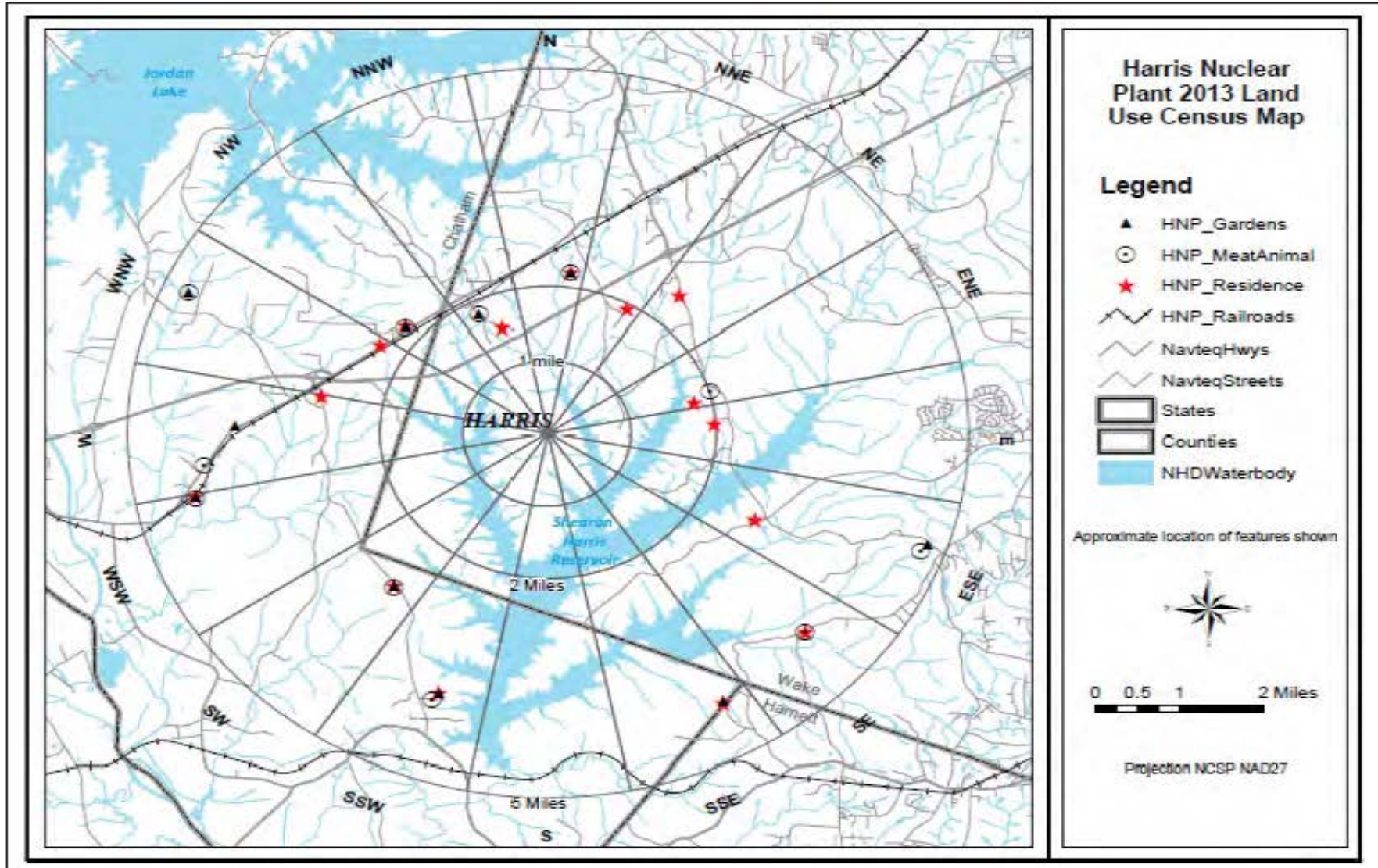
\* Represents a change from the previous year.

“---“ indicates no occurrences within the 5 mile radius

Sector and distance determined by Global Positioning System.

**NOTE:** A new GPS unit was used for the readings (two decimal places) in the SE, SSE, SSW, W, and WNW sectors for the 2013 census.

Figure 3.12



---

## **4.0 QUALITY ASSURANCE**

---

### **4.1 SAMPLE COLLECTION**

EnRad Laboratories, Fisheries, and Aquatic Ecology performed the environmental sample collections as specified by approved sample collection procedures.

### **4.2 SAMPLE ANALYSIS**

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is located in Huntersville, North Carolina, at Duke Energy's Environmental Center.

### **4.3 DOSIMETRY ANALYSIS**

The Radiation Dosimetry and Records group at the Harris Energy and Environmental Center (HEEC) in New Hill, NC performed environmental dosimetry measurements as specified by approved dosimetry analysis procedures.

### **4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE**

#### **4.4.1 DAILY QUALITY CONTROL**

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

#### **4.4.2 CALIBRATION VERIFICATION**

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

#### **4.4.3 BATCH PROCESSING**

Method quality control samples are analyzed with sample analyses that are processed in batches. These include gross beta in drinking and surface water and tritium analyses.



#### **4.5 DUKE ENERGY INTERCOMPARISON PROGRAM**

EnRad Laboratories participated in the Duke Energy Fleet Scientific Services (FSS) Intercomparison Program during 2013. Interlaboratory cross-check standards including gamma in water (Marinelli beakers) and tritium in water samples were analyzed during 2013. A summary of the EnRad Laboratory program results for 2013 is documented in Table 4.0-A.

#### **4.6 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM**

EnRad Laboratories participated in the Eckert & Ziegler Analytics Cross Check Program during 2013. Cross-check standards including Marinelli beakers, air filters, tritium in water, and Iodine in milk samples were analyzed at various times of the year. A summary of the EnRad Laboratory program results for 2013 is documented in Table 4.0-B.

#### **4.7 ERA PROFICIENCY TESTING**

EnRad Laboratories performed method proficiency testing through a program administered by Environmental Resource Associates (ERA) of Arvada, CO. ERA supplied requested method proficiency samples for analysis and nuclide concentration determination. ERA reported proficiency test results to the North Carolina Department of Health and Human Services, North Carolina Public Health Drinking Water Laboratory Certification Program. A summary of these proficiency test data for 2013 is documented in Table 4.0-C.

#### **4.8 STATE OF NORTH CAROLINA INTERCOMPARISON PROGRAM**

EnRad Laboratories routinely participates with the State of North Carolina Department of Environmental Health and Natural Resources (DEHNR) in an intercomparison program. EnRad Laboratories sends Harris Nuclear Plant Radiological Environmental Monitoring Program air, drinking water, surface water, milk, fish, food products, and shoreline sediment samples to the State of North Carolina Radiation Protection Section for intercomparison analysis.

# TABLE 4.0-A

## DUKE ENERGY

### INTERLABORATORY COMPARISON PROGRAM

#### 2013 EnRad Fleet Scientific Services Cross Check Performance Summary

Cross check samples were distributed by Fleet Scientific Services (FSS) in accordance with Duke Energy Nuclear Generation Procedure SRPMP 9-2. Six water samples were analyzed for tritium and gamma emitters. The below table lists results for specific analyses. All 27 results were evaluated as prescribed in procedure SRPMP 9-2 and passed the acceptance criteria for the program.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	FSS Value	EnRad/FSS Ratio	Evaluation
Tritium in Water	Q131TWR1	H-3	1	pCi/L	7.48E+02	7.27E+02	1.03	Pass
					7.53E+02	7.27E+02	1.04	Pass
					7.11E+02	7.27E+02	0.98	Pass
	Q131TWR2	H-3	1	pCi/L	7.51E+05	7.85E+05	0.96	Pass
					7.52E+05	7.85E+05	0.96	Pass
					7.49E+05	7.85E+05	0.95	Pass
	Q131TWR3	H-3	1	pCi/L	6.23E+03	5.86E+03	1.06	Pass
					6.36E+03	5.86E+03	1.09	Pass
					6.32E+03	5.86E+03	1.08	Pass
Gamma in Water	Q131GWR - 0.5 L	Mn-54	1	pCi/L	4.16E+03	3.85E+03	1.08	Pass
		Co-57	1	pCi/L	7.42E+03	6.86E+03	1.08	Pass
		Co-60	1	pCi/L	5.94E+03	5.84E+03	1.02	Pass
		Sn-113	1	pCi/L	7.15E+03	7.23E+03	0.99	Pass
		Ba-133	1	pCi/L	5.86E+03	5.70E+03	1.03	Pass
		Cs-137	1	pCi/L	3.38E+03	3.46E+03	0.98	Pass
	Q131GWR - 1.0 L	Mn-54	1	pCi/L	4.21E+03	3.85E+03	1.09	Pass
		Co-57	1	pCi/L	7.68E+03	6.86E+03	1.12	Pass
		Co-60	1	pCi/L	5.90E+03	5.84E+03	1.01	Pass
		Sn-113	1	pCi/L	6.94E+03	7.23E+03	0.96	Pass
		Ba-133	1	pCi/L	5.58E+03	5.70E+03	0.98	Pass
		Cs-137	1	pCi/L	3.38E+03	3.46E+03	0.98	Pass
	Q131GWR - 3.5 L	Mn-54	1	pCi/L	4.38E+03	3.85E+03	1.14	Pass
		Co-57	1	pCi/L	7.91E+03	6.86E+03	1.15	Pass
		Co-60	1	pCi/L	6.18E+03	5.84E+03	1.06	Pass
		Sn-113	1	pCi/L	7.52E+03	7.23E+03	1.04	Pass
		Ba-133	1	pCi/L	5.93E+03	5.70E+03	1.04	Pass
		Cs-137	1	pCi/L	3.48E+03	3.46E+03	1.00	Pass

# TABLE 4.0-B

## ECKERT & ZIEGLER ANALYTICS

### CROSS CHECK PROGRAM

#### 2013 Cross Check Results for EnRad Laboratories

Cross check samples are received, prepared, and analyzed in all four quarters of 2013. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the average result reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84750 (IP 84750). Fifty-seven environmental results were reported, of which 57 (100%) met the acceptance criteria based on IP 84750.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter	E10509	Gross Beta	1	pCi	86.5	94.2	0.92	Agreement
	E10606	Gross Beta	3	pCi	187	215	0.87	Agreement
Gamma Filter	E10508	Ce-141	1	pCi	97.3	107	0.91	Agreement
		Cr-51	1	pCi	256	269	0.95	Agreement
		Cs-134	1	pCi	113	122	0.93	Agreement
		Cs-137	1	pCi	144	151	0.95	Agreement
		Co-58	1	pCi	109	119	0.92	Agreement
		Mn-54	1	pCi	121	119	1.02	Agreement
		Fe-59	1	pCi	149	144	1.04	Agreement
		Zn-65	1	pCi	179	171	1.04	Agreement
		Co-60	1	pCi	224	228	0.98	Agreement
I-131 in Milk	E10531	I-131	2	pCi/L	91.8	97.3	0.94	Agreement
I-131 in Water	E10709	I-131	4	pCi/L	98.6	99	1.00	Agreement
Beta in Water	E10532	Gross Beta	2	pCi/L	304	293	1.04	Agreement
	E10708	Gross Beta	4	pCi/L	291	279	1.04	Agreement
I-131 Cartridge	E10533	I-131	2	pCi	94	89.7	1.05	Agreement
	E10707	I-131	4	pCi	77.2	76.5	1.01	Agreement
Gamma Composite Filter	E10534	Ce-141	2	pCi	80.6	77.1	1.05	Agreement
		Cr-51	2	pCi	240	214	1.12	Agreement
		Cs-134	2	pCi	107	107	1.00	Agreement
		Cs-137	2	pCi	122	129	0.95	Agreement
		Co-58	2	pCi	76.6	80.2	0.96	Agreement
		Mn-54	2	pCi	149	147	1.01	Agreement
		Fe-59	2	pCi	105	102	1.03	Agreement
		Zn-65	2	pCi	196	186	1.06	Agreement
		Co-60	2	pCi	152	150	1.02	Agreement

## TABLE 4.0-B (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Tritium in Water	E10535	H-3	2	pCi/L	9690	9890	0.98	Agreement
	E10705	H-3	4	pCi/L	13800	14500	0.95	Agreement
Gamma Composite Filter	E10706	Ce-141	4	pCi	107	117	0.91	Agreement
		Cr-51	4	pCi	332	317	1.05	Agreement
		Cs-134	4	pCi	145	152	0.96	Agreement
		Cs-137	4	pCi	126	135	0.93	Agreement
		Co-58	4	pCi	118	120	0.98	Agreement
		Mn-54	4	pCi	177	180	0.99	Agreement
		Fe-59	4	pCi	140	118	1.19	Agreement
		Zn-65	4	pCi	781	793	0.99	Agreement
		Co-60	4	pCi	155	157	0.99	Agreement
Gamma in Milk	E10536	I-131	2	pCi/L	96.2	95.5	1.01	Agreement
		Ce-141	2	pCi/L	92	90.4	1.02	Agreement
		Cr-51	2	pCi/L	238	250	0.95	Agreement
		Cs-134	2	pCi/L	122	125	0.98	Agreement
		Cs-137	2	pCi/L	145	151	0.96	Agreement
		Co-58	2	pCi/L	93.1	94	0.99	Agreement
		Mn-54	2	pCi/L	180	172	1.05	Agreement
		Fe-59	2	pCi/L	129	120	1.08	Agreement
		Zn-65	2	pCi/L	239	217	1.10	Agreement
		Co-60	2	pCi/L	177	175	1.01	Agreement
Gamma in Water	E10704	I-131	4	pCi/L	95.4	92.4	1.03	Agreement
		Ce-141	4	pCi/L	89.3	88.8	1.01	Agreement
		Cr-51	4	pCi/L	243	240	1.01	Agreement
		Cs-134	4	pCi/L	109	115	0.95	Agreement
		Cs-137	4	pCi/L	104	102	1.02	Agreement
		Co-58	4	pCi/L	91.5	90.6	1.01	Agreement
		Mn-54	4	pCi/L	141	136	1.04	Agreement
		Fe-59	4	pCi/L	92.6	89.1	1.04	Agreement
		Zn-65	4	pCi/L	629	600	1.05	Agreement
Co-60	4	pCi/L	123	119	1.04	Agreement		

# TABLE 4.0-C

## ENVIRONMENTAL RESOURCE ASSOCIATES (ERA) PROFICIENCY TESTING

### 2013 Proficiency Test Results for EnRad Laboratories

North Carolina Department of Health and Human Services Laboratory Certification  
EnRad Laboratories

Proficiency test samples are received, prepared, and analyzed in second and fourth quarters of 2013. Results are reported directly to Environmental Resource Associates as described in the instruction package within the study period. Proficiency test data are reported to ERA for evaluation. The acceptance criteria for the program was based on the National Environmental Laboratory Accreditation Conference (NELAC) Field of Proficiency Testing criteria. Fourteen results were reported of which 12 (85.7%) met the acceptance criteria. ERA reports proficiency test results to the North Carolina Department of Health and Human Services, North Carolina Public Drinking Water Laboratory Certification Program. This testing is to satisfy the North Carolina state drinking water radiochemistry certification requirements. The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors (PIPs G-13-00925 and G-13-02152). Complete documentation of any evaluation will be available and provided to the NRC upon request.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	ERA Value	Acceptance Limits	Evaluation
Gamma Emitters in Water	RAD-93	Ba-133	2	pCi/L	82.5	82.1	69.0 - 90.3	Acceptable
		Cs-134	2	pCi/L	41.9	42.8	34.2 - 47.1	Acceptable
		Cs-137	2	pCi/L	42.1	41.7	37.0 - 48.8	Acceptable
		Co-60	2	pCi/L	71	65.9	59.3 - 75.0	Acceptable
		Zn-65	2	pCi/L	207	189	170 - 222	Acceptable
Gamma Emitters in Water	RAD-95	Ba-133	4	pCi/L	48.3	54.2	44.7 - 59.9	Acceptable
		Cs-134	4	pCi/L	81.5	86.7	71.1 - 95.4	Acceptable
		Cs-137	4	pCi/L	180	206	185 - 228	Not Acceptable *
		Co-60	4	pCi/L	103	102	91.8 - 114	Acceptable
		Zn-65	4	pCi/L	337	333	300 - 389	Acceptable
Tritium in Water	RAD-93	H-3	2	pCi/L	6620	4050	3450 - 4460	Not Acceptable #
	RAD-95	H-3	4	pCi/L	17000	17700	15500 - 19500	Acceptable
Iodine-131 in Water	RAD-93	I-131	2	pCi/L	26.9	23.8	19.7 - 28.3	Acceptable
	RAD-95	I-131	4	pCi/L	21.4	23.6	19.6 - 28.0	Acceptable

\* See PIP G-13-02152

# See PIP G-13-00925

**APPENDIX A**

**ENVIRONMENTAL SAMPLING**  
**&**  
**ANALYSIS PROCEDURES**

---

# APPENDIX A

---

## ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at the Harris Nuclear Plant (HNP) was required to ensure compliance with 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). Analytical procedures were employed to ensure that the ODCM detection capabilities were achieved.

Environmental sampling and analyses were performed by EnRad Laboratories, Dosimetry and Records, Fisheries and Aquatic Ecology.

Section IV of this appendix describes the environmental sampling frequencies and analysis procedures by media type.

### I. CHANGE OF SAMPLING PROCEDURES

Control location 5 (Food Product) was added back to the HNP ODCM per Revision 24 in September of 2013 (CR # 613179). All food product locations had been removed from the HNP ODCM since none were irrigated by water influenced by plant waste discharge; however, food product sampling continued though not required.

The Humbug Farm (Goat milk indicator Mk-96 – located in the ESE Sector) ceased operations; therefore, no indicator milk samples were collected in 2013 (CR # 604191/PIP # G-13-00704)

### II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Canberra analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish, food products, aquatic vegetation, and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.), and then transferred to an appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-weighed amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk and water). The resin is then dried, mixed thoroughly, and a net resin weight determined before being transferred to an appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed monthly by using low-level environmental liquid scintillation analysis technique on a Packard 2550 liquid scintillation system or Perkin-Elmer 2900TR liquid scintillation system. Tritium samples are distilled and batch processed with a tritium spike and blank to verify instrument performance and sample preparation technique are acceptable.

Gross beta analysis is performed monthly by concentrating a designated aliquot of sample precipitate and analyzing it by Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

### **III. CHANGE OF ANALYSIS PROCEDURES**

All the analysis procedures were changed, due to all the samples being analyzed at the EnRad Laboratory in 2013 instead of the Harris Energy and Environmental Center (HEEC) as in past years. No EnRad analysis procedures were changed during 2013.

### **IV. SAMPLING AND ANALYSIS PROCEDURES**

#### **A.1 AIRBORNE PARTICULATE AND RADIOIODINE**

Airborne particulate and radioiodine samples at each of nine locations were composited continuously by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly. A separate weekly gamma analysis was performed on each charcoal cartridge. A weekly gross beta analysis was performed on each filter and then the filters were composited to produce quarterly filter samples for gamma analysis. The continuous composite samples were collected from the locations listed below.

Location 1 =	2.6 miles N
Location 2 =	1.4 miles NNE
Location 4 =	3.1 miles NNE
Location 5 =	>12 miles WNW – Pittsboro (Control)
Location 26 =	4.7 miles S
Location 47 =	3.4 miles SSW
Location 63 =	0.6 miles SW
Location 90 =	0.5 miles SSW
Location 91 =	1.6 miles ENE



## **A.2 DRINKING WATER**

Weekly composite drinking water samples were collected from three locations, with aliquots going to biweekly and monthly composite samples. A low-level Iodine-131 analysis was performed on biweekly composites. Gross beta, tritium, and gamma analyses were performed on the monthly composites. The composites are collected from the locations listed below.

Location 38	=	6.2 miles WSW (Control)
Location 40	=	17.2 miles SSE Lillington
Location 51	=	Water Treatment Building (on Site)

## **A.3 SURFACE WATER**

Weekly composite surface water samples were collected from three locations, with aliquots going to biweekly and monthly composite samples. A low-level Iodine-131 analysis was performed on the biweekly composites. Gross beta, tritium, and gamma analyses were performed on the monthly composites. The composites are collected from the locations listed below.

Location 26	=	4.7 miles S
Location 38	=	6.2 miles WSW (Control)
Location 40	=	17.2 miles SSE Lillington

## **A.4 GROUND WATER**

Grab samples were collected quarterly from ground water wells at nineteen (19) locations. A gamma analysis and tritium analysis were performed on each sample. The samples were collected from the locations listed below.

Location 57	=	0.4 miles SSW
Location 59	=	0.5 miles NNE
Location 60	=	0.5 miles ESE
Location 68	=	0.2 miles W
Location 69	=	0.2 miles NNE
Location 70	=	0.4 miles E
Location 71	=	0.3 miles SE
Location 72	=	0.2 miles SE
Location 73	=	0.2 miles S
Location 74	=	0.2 miles SSE
Location 75	=	0.1 miles ESE
Location 76	=	0.1 miles S
Location 77	=	0.4 miles S
Location 78	=	0.5 miles S
Location 79	=	0.5 miles S

Location 80	=	0.6 miles S
Location 81	=	0.6 miles S
Location 82	=	0.6 miles S
Location 83	=	1.6 miles SSW

**A.5 MILK**

Monthly grab samples were collected at one location. A gamma and low-level Iodine-131 analysis was performed on each sample. The monthly grab samples were collected from the location listed below.

Location 5	=	Manco Dairy - >12 miles WNW (Control)
------------	---	---------------------------------------

**A.6 BROADLEAF VEGETATION**

Monthly samples, three different species, were collected at each of three locations during the growing season, May through October. A gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 5	=	>12 miles NNW – Pittsboro (Control)
Location 12	=	0.9 miles SSW
Location 63	=	0.6 miles SW

**A.7 FOOD PRODUCTS**

Monthly samples, of three different types of broadleaf vegetation, were collected when available during the growing season at one location. A gamma analysis was performed on each sample. The samples were collected from the location listed below.

Location 5	=	>12 miles WNW – Pittsboro (Control)
------------	---	-------------------------------------

**A.8 AQUATIC VEGETATION**

Annual samples were collected at each of the three locations. A gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 26	=	4.7 miles S
Location 41	=	3.8 miles S
Location 61	=	2.5 miles E (Control)

## **A.9 FISH**

Semiannual samples of bottom feeders (catfish) and free swimmers (sunfish and largemouth bass) were collected at each of two locations. A gamma analysis was performed on the edible portions of each sample. The samples were collected from the locations listed below.

Location 44 = Site varies in Harris Lake  
Location 45 = Site varies in Cape Fear River above Buckhorn  
Dam (Control)

## **A.10 SHORELINE SEDIMENT**

Semiannual samples were collected at each of two locations. A gamma analysis was performed on each sample following the drying and removal of rocks and clams. The samples were collected from the locations listed below.

Location 26 = 4.6 miles S  
Location 41 = 3.8 miles S

## **A.11 BOTTOM SEDIMENT**

Semiannual samples were collected from the one location. A gamma analysis was performed on each sample following the drying; the removal of rocks, clams, etc.; and grinding. The samples were collected from the location listed below.

Location 52 = 3.8 miles S

## **A.12 DIRECT GAMMA RADIATION (TLD)**

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-four locations. A gamma exposure rate was determined for each TLD. TLD locations are listed in Table 2.1-B. The TLDs were placed as indicated below.

- \* An inner ring of 21 TLDs, one in each meteorological sector in the general area of the site boundary.
- \* An outer ring of 16 TLDs, one in each meteorological sector in the 6 to 8 kilometer range.
- \* The remaining TLDs were placed in special interest areas such as population centers, residential areas, schools, and at a control location.

### **A.13 ANNUAL LAND USE CENSUS**

An Annual Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the plant, the nearest location from the site boundary in each of the sixteen meteorological sectors, the following:

- \* The Nearest Residence
- \* The Nearest Garden greater than 50 square meters or 500 square feet, producing broadleaf vegetables
- \* The Nearest Milk-giving Animal (cow, goat, etc.)
- \* The Nearest Meat Animal (beef, hogs, chickens, etc.)

The census was conducted during the growing season from 8/13 – 8/14/2013. Results are shown in Table 3.12.3. No changes were made to the sampling procedures during 2013 as a result of the 2013 census.

**APPENDIX B**

**RADIOLOGICAL  
ENVIRONMENTAL MONITORING  
PROGRAM**

**SUMMARY OF RESULTS**

**2013**

**HARRIS NUCLEAR PLANT  
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Shearon Harris Nuclear Power Plant  
Wake County, North Carolina

Docket Numbers: STN 50-400  
Calendar Year: 2013

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	Location w/Highest Annual Mean <sup>(2)</sup>		Control Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>		
Air Particulate (pCi/m <sup>3</sup> )	Gross Beta 467 <sup>(4)</sup>	See Table 2.2-C	1.61E-2 (415/415) 3.95E-3 – 3.30E-2	Loc. # 1 2.6 miles N	1.67E-2 (52/52) 6.47E-3 – 3.30E-2	Loc. # 5 1.65E-2 (52/52) 5.17E-3 – 3.15E-2	0
	Gamma 36	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Air Radioiodine (pCi/m <sup>3</sup> )	I-131 466 <sup>(4)</sup>	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Drinking Water <sup>(4)(8)</sup> (pCi/l)	I-131 78	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Gross Beta 39	4	2.90E+0 (26/26) 1.82E+0 – 5.15E+0	Loc. # 40 Lillington Cape Fear River 17.2 miles SSE)	3.37E+0 (13/13) 2.25E+0 – 5.15E+0	Loc. # 38 3.60E+0 (13/13) 1.13E+0 – 5.30E+0	0
	Gamma 39	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium <sup>(5)</sup> 39	2000 <sup>(7)</sup>	5.89E+3 (13/26) 2.25E+3 – 9.34E+3	Loc. # 51 Water Treatment Building on Site	5.89E+3 (13/13) 2.25E+3 – 9.34E+3	All less than LLD	0
Surface Water <sup>(4)</sup> (pCi/l)	I-131 78	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Gross Beta 39	4	3.97E+0 (26/26) 2.25E+0 – 5.59E+0	Loc. # 26 Harris Lake Spillway 4.7 miles S	4.57E+0 (13/13) 2.91E+0 – 5.59E+0	Loc. # 38 3.60E+0 (13/13) 1.13E+0 – 5.30E+0	0
	Gamma 39	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium 39	2000 <sup>(7)</sup>	8.21E+3 (13/26) 6.38E+3 – 1.10E+4	Loc. # 26 Harris Lake Spillway 4.7 miles S	8.21E+3 (13/13) 6.38E+3 – 1.10E+4	All less than LLD	0

**HARRIS NUCLEAR PLANT  
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)**

Shearon Harris Nuclear Power Plant  
Wake County, North Carolina

Docket Numbers: STN 50-400  
Calendar Year: 2013

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	Location w/Highest Annual Mean <sup>(2)</sup>		Control Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>		
Ground Water (pCi/l)	Gamma 76	See Table 2.2-C	All less than LLD	----	----	No Control	0
	Tritium 76	2000 <sup>(7)</sup>	6.88E+2 (28/76) 2.28E+2 – 2.61E+3	Loc. # 83 On Site (BD-MW16) along Cooling Tower Blowdown line 1.6 miles SSW	2.16E+3 (4/4) 1.86E+3 – 2.61E+3	No Control	0
Milk (pCi/l)	I-131 12	See Table 2.2-C	----	----	----	All less than LLD	0
	Gamma 12	See Table 2.2-C	----	----	----	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma 54 <sup>(4)</sup>	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Food Products (pCi/kg, wet)	Gamma 8 <sup>(4)</sup>	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Aquatic Vegetation (pCi/kg, wet)	Gamma 3	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Fish Bottom-Feeders (pCi/kg, wet)	Gamma 4	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Fish Free-Swimmers (pCi/kg, wet)	Gamma 8	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Sediments -- Shoreline (pCi/kg, dry)	Gamma 4	See Table 2.2-C	All less than LLD	----	----	No Control	0

**HARRIS NUCLEAR PLANT  
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)**

Shearon Harris Nuclear Plant  
Wake County, North Carolina

Docket Numbers: STN 50-400  
Calendar Year: 2013

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) <sup>(1)</sup>	All Indicator Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	Location w/Highest Annual Mean <sup>(2)</sup>		Control Locations Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean <sup>(2)(3)</sup> Range <sup>(2)</sup>		
Sediments -- Bottom (pCi/kg, dry)	Gamma 2 Co-58	See Table 2.2-C	2.84E+1 (1/2) Single Value	Loc. # 52 Harris Lake Cooling Tower Mixing Zone 3.8 miles S	2.84E+1 (1/2) Single Value	No Control	0
	Co-60	See Table 2.2-C	4.20E+2 (2/2) 2.40E+2 – 6.00E+2	Loc. # 52 Harris Lake Cooling Tower Mixing Zone 3.8 miles S	4.20E+2 (2/2) 2.40E+2 – 6.00E+2	No Control	0
	Cs-137	See Table 2.2-C	1.94E+2 (2/2) 1.59E+2 – 2.28E+2	Loc. # 52 Harris Lake Cooling Tower Mixing Zone 3.8 miles S	1.94E+2 (2/2) 1.59E+2 – 2.28E+2	No Control	0
	Sb-125	-----	7.70E+1 (1/2) Single Value	Loc. # 52 Harris Lake Cooling Tower Mixing Zone 3.8 miles S	7.70E+1 (1/2) Single Value	No Control	0
Direct Radiation (TLD) (mR per quarter) <sup>(6)</sup>	TLD Readout 174 <sup>(4)</sup>	-----	1.13E+1 (170/170) 8.40E+0 – 1.61E+1	Loc. # 34 Apex (Population Center) 8.7 miles NE	1.51E+1 (3/3) 1.45E+1 – 1.61E+1	Loc. # 5 1.47E+1 (4/4) 1.29E+1 – 1.57E+1	0



## Footnotes to Appendix B

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. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. Although quarterly composite samples are required, monthly composite samples are used to provide more frequent and sensitive analyses.
6. 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).
7. Tritium Lower Limit of Detection (LLD) is approximately  $2.50E+2$  pCi/L for samples that typically demonstrate activity less than the LLD. The LLD was lowered in order to maintain comparable LLD and result values with the NC Division of Radiation Protection (NCDRP) Laboratory.
8. Drinking Water 51 (DW-51) has been included, as of 2009, in the Data Summary even though it does not meet the EPA (Environmental Protection Agency) definition of a public drinking water supply.

**APPENDIX C**

**SAMPLING DEVIATIONS**

**&**

**UNAVAILABLE ANALYSES**

---

# APPENDIX C

---

## HARRIS NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

### 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 were two missed samples in 2013 from the established air samplers. The air samplers operated for a total of 99.7% availability in 2013.

#### Missed Samples:

- APAC-4; January 28 – February 4, 2013 – Down time was 145.5 hours, which was caused by a blown fuse in the air sampler. The fuse was replaced and the air sampler was restarted. No telemetry notification of sampler being down, since telemetry is not positioned to pick up on this (CR # 587181 / PIP # G-13-00208).
- AC-63; See Appendix D

#### Missed Surveillances:

- APAC-4; April 15 – April 22, 2013 – Down time of approximately 62.2 hours, which was due to severe weather conditions in the area which resulted in a blown fuse. The event was captured by telemetry notification of a brief power outage (1 minute) and returned to service, but air sampler fuse blew and the telemetry is not positioned to pick up on this. The fuse was replaced and air sampler restarted and returned to service (CR # 602765).
- APAC-47; June 13, 2013 – Down time of approximately 23.3 hours due to a power outage (based on sampler run timer and telemetry). The outage was due to bad thunderstorms with high winds and excessive rain in the area (CR # 612890).

Other down times were identified that did not meet the definition of “missed surveillances.” Additional information of these events can be found in the corrective action program (CR # 580220, 584471, 586058, 606346, 607806, 608470, and 612893).

### Food Crops/Products

None of the gardens identified during past or present annual Land Use Census are irrigated by water in which liquid plant wastes have been discharged. In July 2006, Revision 18 of the HNP ODCM identified that food crop collection was above and beyond requirements and were no longer required to be collected. In order to maintain historical trends, an indicator location (#55) and control location (#5) were sampled and reported in the current year’s data report (CR # 141151). In September 2013, Revision 24 of the HNP ODCM reinstated

control location #5 into the monthly Radiological Environmental Monitoring Program to ensure the food crop pathway was monitored (CR # 613179). Since there are no crops that are irrigated by plant associated water, failure to monitor an indicator location does not constitute a failure to monitor the pathway.

The individual, from control location 5 in 2013, did not plant a large enough variety of produce or the garden did not produce three (3) different kinds of food crops/products. This was mostly due to seasonal unavailability, lack of sufficient quantity planted or lack of a variety of crops planted, and crops being too small to harvest at the time of collection. Therefore, food crop/product from location 5 (control) was not available for sampling September, October, November, and December of 2013, which constitutes a deviation to the program.

### **Drinking / Surface Water**

SW-26 (January 14 – January 21, 2013) had approximately 83 hours of missed surveillances due to a power surge during the severe winter weather event on 1/17/13 (CR # 584472).

DW/SW-38 (April 15 – April 22, 2013) had approximately two (2) hours of missed surveillances due to a water sampler outage on April 18, 2013 (CR # 602771).

DW/SW-40 (May 20 – May 27, 2013) had approximately 50 hours of missed surveillances due to after collecting 115 samples the water sampler ceased operation. The maximum volume of the sampler was reached prior to the end of the collection period. At the beginning of the next collection period, the sampler was verified to be working properly (CR # 608591).

DW/SW-38 (June 3 – June 10, 2013) had approximately 47 hours of missed surveillances.

DW/SW-40 (June 3 – June 10, 2013) had approximately 58 hours of missed surveillances.

The missed surveillances for DW/SW-38 and 40 were due to the malfunction and premature shutdown of the samplers due to high sample level. This was caused by a rise in the Cape Fear River water level from heavy rainfall from Tropical Storm Andrea. The samplers were reprogrammed and verified to be working properly (CR # 611427).

DW/SW-38 (June 24 – July 1, 2013) had approximately 20 hours of missed surveillances. The water sampler experienced a malfunction during sample collection. The water sampler was replaced on 6/27/13. The cause of the event is unknown (CR # 615167).

DW/SW-40 (June 24 – July 1, 2013) had approximately 33 hours of missed surveillances due to after collecting 135 samples the water sampler ceased operation. The maximum water volume of the sampler was reached prior to the end of the collection period due to heavy rainfall in the area (CR # 615168).

### **Milk / Broadleaf Vegetation**

If milk sampling cannot be performed, then three (3) different kinds of broadleaf vegetation nearest each of two different offsite locations of highest predicted annual average ground level D/Q shall be sampled. The new indicator milk sample (Mk-96) that was introduced to the HNP Environmental Monitoring Program in mid-September of 2010 (Humbug Farm –

goat milk) was unavailable for sampling in 2013 (CR # 604191 / PIP # G-13-00704). Broadleaf vegetation samples were not available for sampling due to seasonal unavailability during January, February, March, April, November, and December of 2013 (CR # 584607, 590075, and 596224).

### TLDs

Two TLD samples, out of a possible 176 TLD samples (indicator and control locations), were missing during 2013.

TLD # 37      First Quarter 2013

TLD # 37 was missing in the field. The pole that the TLD was attached to was removed. The area was searched, but the TLD could not be located (CR # 600766).

TLD # 34      Third Quarter 2013

TLD # 34 was missing in the field. The area was searched, but the TLD could not be located (CR #634519 / PIP # G-13-01853).

**APPENDIX D**

**ANALYTICAL DEVIATIONS**

---

# APPENDIX D

---

## HARRIS NUCLEAR PLANT

### ANALYTICAL DEVIATIONS

#### Air Cartridge and Air Particulates

##### Missed Samples:

- AC-63; collection period March 25 – April 1, 2013 – HNP air radioiodine sample was collected without incident and was received at EnRad Lab (LIMS # 254759), but was not processed for analysis (I-131, Cs-134, and Cs-137). This resulted in a laboratory processing error, which results in a missed sample. This is in violation of the sampling requirements described in the HNP ODCM (CR # 611129 / PIP # G-13-00892).

**APPENDIX E**

**RADIOLOGICAL  
ENVIRONMENTAL MONITORING  
PROGRAM RESULTS**

**2013**

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2013.



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
250253	12/31/2012 - 1/7/2013	Beta	3.30E-02	2.70E-03	5.84E-03
250671	1/7/2013 - 1/14/2013	Beta	1.87E-02	2.73E-03	7.69E-03
250800	1/21/2013 - 1/28/2013	Beta	3.10E-02	2.61E-03	5.63E-03
251132	1/14/2013 - 1/21/2013	Beta	9.32E-03	2.31E-03	7.04E-03
251304	1/28/2013 - 2/4/2013	Beta	2.29E-02	2.53E-03	6.35E-03
251322	2/4/2013 - 2/11/2013	Beta	2.15E-02	2.47E-03	6.23E-03
251627	2/11/2013 - 2/18/2013	Beta	1.08E-02	2.18E-03	6.32E-03
252093	2/18/2013 - 2/25/2013	Beta	1.54E-02	2.28E-03	6.16E-03
252722	2/25/2013 - 3/4/2013	Beta	1.44E-02	2.19E-03	5.93E-03
253102	3/4/2013 - 3/11/2013	Beta	1.19E-02	2.25E-03	6.45E-03
253905	3/11/2013 - 3/18/2013	Beta	1.87E-02	2.41E-03	6.30E-03
254227	3/18/2013 - 3/25/2013	Beta	1.56E-02	2.27E-03	6.10E-03
254762	3/25/2013 - 4/1/2013	Beta	1.37E-02	2.28E-03	6.35E-03
255323	4/1/2013 - 4/8/2013	Beta	1.72E-02	2.40E-03	6.44E-03
255851	4/8/2013 - 4/15/2013	Beta	1.92E-02	2.45E-03	6.36E-03
256085	4/15/2013 - 4/22/2013	Beta	1.51E-02	2.28E-03	6.13E-03
256362	4/22/2013 - 4/29/2013	Beta	1.68E-02	2.32E-03	6.11E-03
256431	12/31/2012 - 4/1/2013	I-131	<7.00E-02	0.00E+00	7.00E-02
		Cs-134	<6.94E-04	0.00E+00	6.94E-04
		Cs-137	<8.21E-04	0.00E+00	8.21E-04
		Be-7	1.22E-01	9.07E-03	1.01E-02
		K-40	3.65E-02	6.07E-03	8.91E-03
257152	4/29/2013 - 5/6/2013	Beta	7.74E-03	2.15E-03	6.61E-03
257308	5/6/2013 - 5/13/2013	Beta	1.17E-02	2.20E-03	6.28E-03
257755	5/13/2013 - 5/20/2013	Beta	2.97E-02	2.68E-03	6.06E-03
257999	5/20/2013 - 5/27/2013	Beta	1.37E-02	2.40E-03	6.83E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
258234	5/27/2013 - 6/3/2013	Beta	1.55E-02	2.31E-03	6.22E-03
258581	6/3/2013 - 6/10/2013	Beta	8.10E-03	2.31E-03	7.12E-03
259058	6/10/2013 - 6/18/2013	Beta	1.37E-02	2.09E-03	5.75E-03
259606	6/18/2013 - 6/24/2013	Beta	1.06E-02	2.59E-03	7.76E-03
260240	6/24/2013 - 7/1/2013	Beta	1.48E-02	2.22E-03	5.93E-03
260700	7/1/2013 - 7/8/2013	Beta	8.04E-03	2.12E-03	6.39E-03
261663	7/8/2013 - 7/15/2013	Beta	7.77E-03	2.16E-03	6.57E-03
262165	7/15/2013 - 7/22/2013	Beta	1.33E-02	2.34E-03	6.65E-03
262749	7/22/2013 - 7/29/2013	I-131	<3.68E-02	0.00E+00	3.68E-02
		Cs-134	<4.52E-04	0.00E+00	4.52E-04
		Cs-137	<5.15E-04	0.00E+00	5.15E-04
		Be-7	1.49E-01	6.11E-03	6.41E-03
		K-40	2.88E-02	4.45E-03	4.33E-03
263171	7/29/2013 - 8/5/2013	Beta	9.85E-03	2.24E-03	6.62E-03
263398	8/5/2013 - 8/12/2013	Beta	2.08E-02	2.54E-03	6.54E-03
264056	8/12/2013 - 8/19/2013	Beta	1.99E-02	2.59E-03	6.83E-03
265187	8/19/2013 - 8/26/2013	Beta	1.02E-02	2.07E-03	5.94E-03
265496	8/26/2013 - 9/3/2013	Beta	1.23E-02	2.29E-03	6.55E-03
267182	9/3/2013 - 9/9/2013	Beta	2.26E-02	2.44E-03	6.17E-03
267655	9/9/2013 - 9/16/2013	Beta	2.10E-02	2.86E-03	7.60E-03
268491	9/16/2013 - 9/23/2013	Beta	2.97E-02	2.81E-03	6.71E-03
269651	9/23/2013 - 9/30/2013	Beta	1.78E-02	2.49E-03	6.66E-03
270753	9/30/2013 - 10/7/2013	Beta	1.91E-02	2.30E-03	5.73E-03
271478	10/7/2013 - 10/14/2013	Beta	2.88E-02	2.80E-03	6.77E-03
272085	10/14/2013 - 10/21/2013	Beta	6.47E-03	2.09E-03	6.49E-03
272468		Beta	1.41E-02	2.41E-03	6.84E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272593	7/1/2013 - 9/30/2013	I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.94E-04	0.00E+00	2.94E-04
		Cs-137	<3.54E-04	0.00E+00	3.54E-04
		Be-7	5.51E-02	3.49E-03	3.98E-03
		K-40	2.45E-02	2.78E-03	3.71E-03
272868	10/21/2013 - 10/28/2013	Beta	2.14E-02	2.46E-03	6.15E-03
273959	10/28/2013 - 11/4/2013	Beta	2.96E-02	2.84E-03	6.87E-03
274406	11/4/2013 - 11/11/2013	Beta	1.22E-02	2.35E-03	6.77E-03
274920	11/11/2013 - 11/18/2013	Beta	1.38E-02	2.33E-03	6.55E-03
276474	11/18/2013 - 11/25/2013	Beta	1.31E-02	2.33E-03	6.62E-03
277390	11/25/2013 - 12/2/2013	Beta	1.56E-02	2.34E-03	6.35E-03
278722	12/2/2013 - 12/9/2013	Beta	1.91E-02	2.41E-03	6.19E-03
278995	12/9/2013 - 12/16/2013	Beta	2.01E-02	2.47E-03	6.41E-03
279641	12/16/2013 - 12/23/2013	Beta	1.61E-02	2.47E-03	6.80E-03
280119	12/23/2013 - 12/30/2013	Beta	1.34E-02	2.22E-03	6.16E-03
280585	9/30/2013 - 12/30/2013	Cs-134	<8.03E-04	0.00E+00	8.03E-04
		Cs-137	<8.55E-04	0.00E+00	8.55E-04
		Be-7	1.24E-01	1.14E-02	1.22E-02
		K-40	3.44E-02	5.97E-03	1.03E-02

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250254	12/31/2012 - 1/7/2013	Beta	2.52E-02	2.47E-03	5.74E-03
250672	1/7/2013 - 1/14/2013	Beta	1.83E-02	2.69E-03	7.59E-03
250801	1/21/2013 - 1/28/2013	Beta	2.34E-02	2.37E-03	5.52E-03
251133	1/14/2013 - 1/21/2013	Beta	6.47E-03	2.19E-03	6.96E-03
251305	1/28/2013 - 2/4/2013	Beta	2.41E-02	2.55E-03	6.29E-03
251323	2/4/2013 - 2/11/2013	Beta	1.46E-02	2.25E-03	6.16E-03
251628	2/11/2013 - 2/18/2013	Beta	8.43E-03	2.08E-03	6.23E-03
252094	2/18/2013 - 2/25/2013	Beta	1.49E-02	2.24E-03	6.09E-03
252723	2/25/2013 - 3/4/2013	Beta	1.24E-02	2.11E-03	5.86E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
253103	3/4/2013 - 3/11/2013	Beta	1.04E-02	2.17E-03	6.36E-03
253906	3/11/2013 - 3/18/2013	Beta	2.15E-02	2.46E-03	6.23E-03
254228	3/18/2013 - 3/25/2013	Beta	1.33E-02	2.18E-03	6.03E-03
254763	3/25/2013 - 4/1/2013	Beta	7.12E-03	2.04E-03	6.27E-03
255324	4/1/2013 - 4/8/2013	Beta	2.15E-02	2.50E-03	6.37E-03
255852	4/8/2013 - 4/15/2013	Beta	1.15E-02	2.21E-03	6.33E-03
256086	4/15/2013 - 4/22/2013	Beta	1.57E-02	2.29E-03	6.09E-03
256363	4/22/2013 - 4/29/2013	Beta	1.47E-02	2.24E-03	6.07E-03
256432	12/31/2012 - 4/1/2013	I-131	<5.08E-02	0.00E+00	5.08E-02
		Cs-134	<4.97E-04	0.00E+00	4.97E-04
		Cs-137	<5.47E-04	0.00E+00	5.47E-04
		Be-7	1.22E-01	7.70E-03	9.64E-03
		K-40	4.88E-02	4.74E-03	4.41E-03
257153	4/29/2013 - 5/6/2013	Beta	6.29E-03	2.13E-03	6.68E-03
257309	5/6/2013 - 5/13/2013	Beta	1.28E-02	2.24E-03	6.29E-03
257756	5/13/2013 - 5/20/2013	Beta	2.77E-02	2.62E-03	6.06E-03
258000	5/20/2013 - 5/27/2013	Beta	4.30E-03	2.12E-03	6.86E-03
258235	5/27/2013 - 6/3/2013	Beta	1.55E-02	2.32E-03	6.26E-03
258582	6/3/2013 - 6/10/2013	Beta	7.79E-03	2.32E-03	7.17E-03
259059	6/10/2013 - 6/18/2013	Beta	1.30E-02	2.09E-03	5.79E-03
259607	6/18/2013 - 6/24/2013	Beta	1.11E-02	2.61E-03	7.80E-03
260241	6/24/2013 - 7/1/2013	Beta	1.33E-02	2.18E-03	5.96E-03
260701	7/1/2013 - 7/8/2013	Beta	6.65E-03	2.09E-03	6.44E-03
261664	7/8/2013 - 7/15/2013	Beta	7.19E-03	2.15E-03	6.64E-03
262166	7/15/2013 - 7/22/2013	Beta	1.04E-02	2.27E-03	6.69E-03
262750	4/1/2013 - 7/1/2013	I-131	<5.40E-02	0.00E+00	5.40E-02
		Cs-134	<6.17E-04	0.00E+00	6.17E-04
		Cs-137	<7.34E-04	0.00E+00	7.34E-04



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
262750	4/1/2013 - 7/1/2013	Be-7	1.43E-01	8.72E-03	9.61E-03
		K-40	3.63E-02	5.43E-03	9.48E-03
263172	7/22/2013 - 7/29/2013	Beta	1.22E-02	2.32E-03	6.66E-03
263399	7/29/2013 - 8/5/2013	Beta	1.44E-02	2.36E-03	6.56E-03
264057	8/5/2013 - 8/12/2013	Beta	1.60E-02	2.49E-03	6.90E-03
265188	8/12/2013 - 8/19/2013	Beta	1.55E-02	2.26E-03	6.00E-03
265497	8/19/2013 - 8/26/2013	Beta	1.19E-02	2.29E-03	6.60E-03
267183	8/26/2013 - 9/3/2013	Beta	2.30E-02	2.46E-03	6.23E-03
267656	9/3/2013 - 9/9/2013	Beta	1.99E-02	2.85E-03	7.68E-03
268492	9/9/2013 - 9/16/2013	Beta	3.15E-02	2.88E-03	6.78E-03
269652	9/16/2013 - 9/23/2013	Beta	2.09E-02	2.60E-03	6.74E-03
270754	9/23/2013 - 9/30/2013	Beta	1.54E-02	2.21E-03	5.79E-03
271479	9/30/2013 - 10/7/2013	Beta	2.04E-02	2.61E-03	6.84E-03
272086	10/7/2013 - 10/14/2013	Beta	5.87E-03	2.09E-03	6.57E-03
272469	10/14/2013 - 10/21/2013	Beta	1.62E-02	2.50E-03	6.92E-03
272594	7/1/2013 - 9/30/2013	I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.48E-04	0.00E+00	2.48E-04
		Cs-137	<2.14E-04	0.00E+00	2.14E-04
		Be-7	5.09E-02	3.38E-03	3.34E-03
		K-40	2.55E-02	2.36E-03	2.46E-03
272869	10/21/2013 - 10/28/2013	Beta	2.52E-02	2.58E-03	6.20E-03
273960	10/28/2013 - 11/4/2013	Beta	2.82E-02	2.82E-03	6.93E-03
274407	11/4/2013 - 11/11/2013	Beta	1.38E-02	2.41E-03	6.83E-03
274921	11/11/2013 - 11/18/2013	Beta	1.15E-02	2.29E-03	6.61E-03
276475	11/18/2013 - 11/25/2013	Beta	1.23E-02	2.33E-03	6.68E-03
277391	11/25/2013 - 12/2/2013	Beta	1.98E-02	2.49E-03	6.44E-03
278723	12/2/2013 - 12/9/2013	Beta	2.15E-02	2.50E-03	6.26E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
278996	12/9/2013 - 12/16/2013	Beta	2.36E-02	2.59E-03	6.49E-03
279642	12/16/2013 - 12/23/2013	Beta	1.63E-02	2.49E-03	6.86E-03
280120	12/23/2013 - 12/30/2013	Beta	1.80E-02	2.38E-03	6.23E-03
280621	9/30/2013 - 12/30/2013	Cs-134	<4.19E-04	0.00E+00	4.19E-04
		Cs-137	<4.09E-04	0.00E+00	4.09E-04
		Be-7	1.03E-01	6.41E-03	6.96E-03
		K-40	4.69E-02	4.04E-03	4.09E-03

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250256	12/31/2012 - 1/7/2013	Beta	3.01E-02	2.59E-03	5.71E-03
250673	1/7/2013 - 1/14/2013	Beta	2.00E-02	2.71E-03	7.54E-03
250803	1/21/2013 - 1/28/2013	Beta	2.69E-02	2.45E-03	5.47E-03
251134	1/14/2013 - 1/21/2013	Beta	7.89E-03	2.22E-03	6.90E-03
251325	2/4/2013 - 2/11/2013	Beta	1.55E-02	2.27E-03	6.11E-03
251630	2/11/2013 - 2/18/2013	Beta	1.13E-02	2.16E-03	6.20E-03
252096	2/18/2013 - 2/25/2013	Beta	1.37E-02	2.20E-03	6.05E-03
252725	2/25/2013 - 3/4/2013	Beta	9.01E-03	1.99E-03	5.83E-03
253105	3/4/2013 - 3/11/2013	Beta	9.63E-03	2.14E-03	6.33E-03
253908	3/11/2013 - 3/18/2013	Beta	2.06E-02	2.43E-03	6.19E-03
254230	3/18/2013 - 3/25/2013	Beta	1.17E-02	2.12E-03	5.99E-03
254765	3/25/2013 - 4/1/2013	Beta	9.71E-03	2.11E-03	6.22E-03
255326	4/1/2013 - 4/8/2013	Beta	1.76E-02	2.38E-03	6.33E-03
255854	4/8/2013 - 4/15/2013	Beta	1.65E-02	2.36E-03	6.33E-03
256088	4/15/2013 - 4/22/2013	Beta	2.50E-02	3.61E-03	9.62E-03
256365	4/22/2013 - 4/29/2013	Beta	1.83E-02	2.33E-03	6.01E-03
256433	12/31/2012 - 4/1/2013	I-131	<6.97E-02	0.00E+00	6.97E-02
		Cs-134	<6.87E-04	0.00E+00	6.87E-04
		Cs-137	<7.52E-04	0.00E+00	7.52E-04
		Be-7	1.28E-01	7.91E-03	1.16E-02
		K-40	4.55E-02	4.01E-03	8.58E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
257155	4/29/2013 - 5/6/2013	Beta	6.80E-03	2.01E-03	6.21E-03
257311	5/6/2013 - 5/13/2013	Beta	1.01E-02	2.03E-03	5.87E-03
257758	5/13/2013 - 5/20/2013	Beta	2.53E-02	2.44E-03	5.67E-03
258002	5/20/2013 - 5/27/2013	Beta	1.12E-02	2.21E-03	6.39E-03
258237	5/27/2013 - 6/3/2013	Beta	1.22E-02	2.09E-03	5.83E-03
258584	6/3/2013 - 6/10/2013	Beta	5.46E-03	2.10E-03	6.69E-03
259061	6/10/2013 - 6/18/2013	Beta	1.38E-02	1.99E-03	5.38E-03
259609	6/18/2013 - 6/24/2013	Beta	1.03E-02	2.43E-03	7.27E-03
260243	6/24/2013 - 7/1/2013	Beta	9.86E-03	1.96E-03	5.56E-03
260703	7/1/2013 - 7/8/2013	Beta	8.70E-03	2.02E-03	6.01E-03
261666	7/8/2013 - 7/15/2013	Beta	7.41E-03	2.02E-03	6.16E-03
262168	7/15/2013 - 7/22/2013	Beta	1.16E-02	2.18E-03	6.26E-03
262751	4/1/2013 - 7/1/2013	I-131	<4.68E-02	0.00E+00	4.68E-02
		Cs-134	<5.47E-04	0.00E+00	5.47E-04
		Cs-137	<5.57E-04	0.00E+00	5.57E-04
		Be-7	1.30E-01	8.04E-03	9.11E-03
		K-40	4.40E-02	4.80E-03	6.08E-03
263174	7/22/2013 - 7/29/2013	Beta	1.17E-02	2.17E-03	6.22E-03
263401	7/29/2013 - 8/5/2013	Beta	1.79E-02	2.33E-03	6.14E-03
264059	8/5/2013 - 8/12/2013	Beta	1.47E-02	2.31E-03	6.42E-03
265190	8/12/2013 - 8/19/2013	Beta	1.24E-02	2.03E-03	5.57E-03
265499	8/19/2013 - 8/26/2013	Beta	7.91E-03	2.03E-03	6.15E-03
267185	8/26/2013 - 9/3/2013	Beta	2.30E-02	2.34E-03	5.80E-03
267658	9/3/2013 - 9/9/2013	Beta	1.85E-02	2.64E-03	7.13E-03
268494	9/9/2013 - 9/16/2013	Beta	2.91E-02	2.66E-03	6.29E-03
269654	9/16/2013 - 9/23/2013	Beta	1.69E-02	2.33E-03	6.24E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	270756	Sample Dates:	9/23/2013 - 9/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.41E-02	2.04E-03	5.36E-03
Sample ID:	271481	Sample Dates:	9/30/2013 - 10/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.31E-02	2.52E-03	6.34E-03
Sample ID:	272088	Sample Dates:	10/7/2013 - 10/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	4.86E-03	1.91E-03	6.08E-03
Sample ID:	272472	Sample Dates:	10/14/2013 - 10/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.48E-02	2.31E-03	6.40E-03
Sample ID:	272595	Sample Dates:	7/1/2013 - 9/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.67E-02	0.00E+00	2.67E-02
				Cs-134	<2.48E-04	0.00E+00	2.48E-04
				Cs-137	<3.13E-04	0.00E+00	3.13E-04
				Be-7	5.21E-02	4.07E-03	3.36E-03
				K-40	4.24E-03	1.93E-03	2.86E-03
Sample ID:	272871	Sample Dates:	10/21/2013 - 10/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.46E-02	2.43E-03	5.74E-03
Sample ID:	273962	Sample Dates:	10/28/2013 - 11/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	3.10E-02	2.72E-03	6.41E-03
Sample ID:	274409	Sample Dates:	11/4/2013 - 11/11/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.49E-02	2.29E-03	6.32E-03
Sample ID:	274923	Sample Dates:	11/11/2013 - 11/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.03E-02	2.10E-03	6.11E-03
Sample ID:	276477	Sample Dates:	11/18/2013 - 11/25/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.18E-02	2.16E-03	6.19E-03
Sample ID:	277394	Sample Dates:	11/25/2013 - 12/2/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.70E-02	2.25E-03	5.93E-03
Sample ID:	278726	Sample Dates:	12/2/2013 - 12/9/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.80E-02	2.25E-03	5.78E-03
Sample ID:	278999	Sample Dates:	12/9/2013 - 12/16/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.07E-02	2.36E-03	6.00E-03
Sample ID:	279645	Sample Dates:	12/16/2013 - 12/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.43E-02	2.29E-03	6.35E-03
Sample ID:	280123	Sample Dates:	12/23/2013 - 12/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.88E-02	2.26E-03	5.77E-03
Sample ID:	280576	Sample Dates:	9/30/2013 - 12/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Cs-134	<4.60E-04	0.00E+00	4.60E-04
				Cs-137	<6.15E-04	0.00E+00	6.15E-04
				Be-7	1.17E-01	7.65E-03	8.17E-03
				K-40	1.91E-02	3.37E-03	4.51E-03

## Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	250258	Sample Dates:	12/31/2012 - 1/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.79E-02	2.90E-03	6.93E-03
Sample ID:	250674	Sample Dates:	1/7/2013 - 1/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.61E-02	2.71E-03	7.87E-03
Sample ID:	250805	Sample Dates:	1/21/2013 - 1/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.68E-02	2.51E-03	5.69E-03
Sample ID:	251135	Sample Dates:	1/14/2013 - 1/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	7.45E-03	2.29E-03	7.17E-03
Sample ID:	251312	Sample Dates:	1/28/2013 - 2/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.99E-02	2.50E-03	6.51E-03





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
251330	2/4/2013 - 2/11/2013	Beta	1.47E-02	2.32E-03	6.37E-03
251635	2/11/2013 - 2/18/2013	Beta	1.28E-02	2.27E-03	6.43E-03
252101	2/18/2013 - 2/25/2013	Beta	1.34E-02	2.28E-03	6.34E-03
252730	2/25/2013 - 3/4/2013	Beta	9.55E-03	2.08E-03	6.06E-03
253106	3/4/2013 - 3/11/2013	Beta	1.40E-02	2.34E-03	6.57E-03
253909	3/11/2013 - 3/18/2013	Beta	1.95E-02	2.48E-03	6.47E-03
254231	3/18/2013 - 3/25/2013	Beta	1.55E-02	2.30E-03	6.25E-03
254766	3/25/2013 - 4/1/2013	Beta	8.68E-03	2.17E-03	6.53E-03
255327	4/1/2013 - 4/8/2013	Beta	1.75E-02	2.48E-03	6.65E-03
255855	4/8/2013 - 4/15/2013	Beta	1.81E-02	2.47E-03	6.54E-03
256089	4/15/2013 - 4/22/2013	Beta	2.12E-02	2.52E-03	6.34E-03
256367	4/22/2013 - 4/29/2013	Beta	2.03E-02	2.47E-03	6.26E-03
256434	12/31/2012 - 4/1/2013	I-131	<6.18E-02	0.00E+00	6.18E-02
		Cs-134	<7.89E-04	0.00E+00	7.89E-04
		Cs-137	<8.20E-04	0.00E+00	8.20E-04
		Be-7	1.19E-01	7.70E-03	1.04E-02
		K-40	2.99E-02	3.86E-03	6.09E-03
257157	4/29/2013 - 5/6/2013	Beta	5.51E-03	2.21E-03	7.05E-03
257313	5/6/2013 - 5/13/2013	Beta	1.58E-02	2.44E-03	6.65E-03
257760	5/13/2013 - 5/20/2013	Beta	3.15E-02	2.82E-03	6.39E-03
258004	5/20/2013 - 5/27/2013	Beta	1.15E-02	2.53E-03	7.50E-03
258239	5/27/2013 - 6/3/2013	Beta	1.46E-02	2.38E-03	6.57E-03
258586	6/3/2013 - 6/10/2013	Beta	1.83E-02	2.30E-03	6.35E-03
259063	6/10/2013 - 6/18/2013	Beta	9.20E-03	1.71E-03	4.90E-03
259611	6/18/2013 - 6/24/2013	Beta	1.03E-02	2.70E-03	8.21E-03
260245	6/24/2013 - 7/1/2013	Beta	1.31E-02	2.29E-03	6.34E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267075	7/1/2013 - 7/8/2013	Beta	9.42E-03	2.27E-03	6.78E-03
261668	7/8/2013 - 7/15/2013	Beta	7.23E-03	2.25E-03	6.96E-03
262171	7/15/2013 - 7/22/2013	Beta	1.18E-02	2.41E-03	7.04E-03
262752	4/1/2013 - 7/1/2013	I-131	<5.31E-02	0.00E+00	5.31E-02
		Cs-134	<6.93E-04	0.00E+00	6.93E-04
		Cs-137	<7.47E-04	0.00E+00	7.47E-04
		Be-7	1.38E-01	9.49E-03	9.08E-03
		K-40	1.88E-02	4.37E-03	2.02E-03
263176	7/22/2013 - 7/29/2013	Beta	1.47E-02	2.50E-03	7.03E-03
263403	7/29/2013 - 8/5/2013	Beta	2.53E-02	2.76E-03	6.89E-03
264061	8/5/2013 - 8/12/2013	Beta	1.32E-02	2.48E-03	7.13E-03
265192	8/12/2013 - 8/19/2013	Beta	1.53E-02	2.36E-03	6.38E-03
265501	8/19/2013 - 8/26/2013	Beta	1.36E-02	2.45E-03	6.95E-03
267187	8/26/2013 - 9/3/2013	Beta	2.61E-02	2.64E-03	6.54E-03
267660	9/3/2013 - 9/9/2013	Beta	2.68E-02	3.17E-03	8.10E-03
268496	9/9/2013 - 9/16/2013	Beta	2.59E-02	2.83E-03	7.09E-03
269656	9/16/2013 - 9/23/2013	Beta	1.81E-02	2.64E-03	7.17E-03
270758	9/23/2013 - 9/30/2013	Beta	2.04E-02	2.45E-03	6.07E-03
271483	9/30/2013 - 10/7/2013	Beta	2.81E-02	2.91E-03	7.21E-03
272090	10/7/2013 - 10/14/2013	Beta	5.17E-03	2.12E-03	6.74E-03
272474	10/14/2013 - 10/21/2013	Beta	1.46E-02	2.63E-03	7.52E-03
272596	7/1/2013 - 9/30/2013	I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.97E-04	0.00E+00	2.97E-04
		Cs-137	<3.00E-04	0.00E+00	3.00E-04
		Be-7	4.74E-02	3.09E-03	3.93E-03
		K-40	1.73E-02	2.48E-03	3.85E-03
272873	10/21/2013 - 10/28/2013	Beta	2.50E-02	2.69E-03	6.58E-03
273964	10/28/2013 - 11/4/2013	Beta	2.86E-02	2.95E-03	7.35E-03
274411	11/4/2013 - 11/11/2013	Beta	1.62E-02	2.60E-03	7.25E-03



## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
274925	11/11/2013 - 11/18/2013	Beta	8.03E-03	2.30E-03	7.02E-03
276479	11/18/2013 - 11/25/2013	Beta	1.30E-02	2.45E-03	7.06E-03
277396	11/25/2013 - 12/2/2013	Beta	1.73E-02	2.54E-03	6.87E-03
278728	12/2/2013 - 12/9/2013	Beta	1.59E-02	2.46E-03	6.70E-03
279001	12/9/2013 - 12/16/2013	Beta	2.37E-02	2.72E-03	6.91E-03
279647	12/16/2013 - 12/23/2013	Beta	9.71E-03	2.43E-03	7.32E-03
280125	12/23/2013 - 12/30/2013	Beta	1.55E-02	2.41E-03	6.61E-03
280578	9/30/2013 - 12/30/2013	Cs-134	<6.97E-04	0.00E+00	6.97E-04
		Cs-137	<8.49E-04	0.00E+00	8.49E-04
		Be-7	1.12E-01	9.28E-03	1.08E-02
		K-40	1.18E-02	3.71E-03	1.09E-02

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
250255	12/31/2012 - 1/7/2013	Beta	2.71E-02	2.60E-03	6.03E-03
250675	1/7/2013 - 1/14/2013	Beta	2.24E-02	2.89E-03	7.95E-03
250802	1/21/2013 - 1/28/2013	Beta	2.71E-02	2.58E-03	5.89E-03
251136	1/14/2013 - 1/21/2013	Beta	6.07E-03	2.34E-03	7.51E-03
251306	1/28/2013 - 2/4/2013	Beta	2.01E-02	2.56E-03	6.68E-03
251324	2/4/2013 - 2/11/2013	Beta	1.43E-02	2.36E-03	6.55E-03
251629	2/11/2013 - 2/18/2013	Beta	1.65E-02	2.43E-03	6.57E-03
252095	2/18/2013 - 2/25/2013	Beta	1.43E-02	2.35E-03	6.51E-03
252724	2/25/2013 - 3/4/2013	Beta	9.46E-03	2.10E-03	6.15E-03
253104	3/4/2013 - 3/11/2013	Beta	8.53E-03	2.23E-03	6.76E-03
253907	3/11/2013 - 3/18/2013	Beta	2.10E-02	2.56E-03	6.59E-03
254229	3/18/2013 - 3/25/2013	Beta	1.70E-02	2.39E-03	6.37E-03
254764	3/25/2013 - 4/1/2013	Beta	1.06E-02	2.27E-03	6.67E-03
255325	4/1/2013 - 4/8/2013	Beta	1.99E-02	2.58E-03	6.78E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
255853	4/8/2013 - 4/15/2013	Beta	2.02E-02	2.58E-03	6.70E-03
256087	4/15/2013 - 4/22/2013	Beta	9.83E-03	2.20E-03	6.46E-03
256364	4/22/2013 - 4/29/2013	Beta	1.92E-02	2.47E-03	6.40E-03
256435	12/31/2012 - 4/1/2013	I-131	<6.99E-02	0.00E+00	6.99E-02
		Cs-134	<8.79E-04	0.00E+00	8.79E-04
		Cs-137	<7.42E-04	0.00E+00	7.42E-04
		Be-7	9.85E-02	9.72E-03	1.00E-02
		K-40	2.07E-02	5.83E-03	9.28E-03
257154	4/29/2013 - 5/6/2013	Beta	7.56E-03	2.08E-03	6.34E-03
257310	5/6/2013 - 5/13/2013	Beta	9.23E-03	2.07E-03	6.12E-03
257757	5/13/2013 - 5/20/2013	Beta	3.26E-02	2.67E-03	5.81E-03
258001	5/20/2013 - 5/27/2013	Beta	1.10E-02	2.26E-03	6.59E-03
258236	5/27/2013 - 6/3/2013	Beta	1.64E-02	2.26E-03	5.96E-03
258583	6/3/2013 - 6/10/2013	Beta	7.19E-03	2.22E-03	6.92E-03
259060	6/10/2013 - 6/18/2013	Beta	1.49E-02	2.06E-03	5.51E-03
259608	6/18/2013 - 6/24/2013	Beta	1.04E-02	2.52E-03	7.57E-03
260242	6/24/2013 - 7/1/2013	Beta	1.17E-02	2.07E-03	5.77E-03
260702	7/1/2013 - 7/8/2013	Beta	8.92E-03	2.09E-03	6.18E-03
261665	7/8/2013 - 7/15/2013	Beta	3.95E-03	1.95E-03	6.30E-03
262167	7/15/2013 - 7/22/2013	Beta	1.30E-02	2.29E-03	6.50E-03
262753	4/1/2013 - 7/1/2013	I-131	<5.67E-02	0.00E+00	5.67E-02
		Cs-134	<6.33E-04	0.00E+00	6.33E-04
		Cs-137	<6.96E-04	0.00E+00	6.96E-04
		Be-7	1.58E-01	8.22E-03	9.97E-03
		K-40	2.92E-02	4.29E-03	8.58E-03
263173	7/22/2013 - 7/29/2013	Beta	1.25E-02	2.25E-03	6.41E-03
263400	7/29/2013 - 8/5/2013	Beta	2.00E-02	2.44E-03	6.29E-03
264058	8/5/2013 - 8/12/2013	Beta	1.75E-02	2.40E-03	6.45E-03
265189	8/12/2013 - 8/19/2013	Beta	1.21E-02	2.11E-03	5.87E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
265498	8/19/2013 - 8/26/2013	Beta	1.07E-02	2.19E-03	6.37E-03
267184	8/26/2013 - 9/3/2013	Beta	2.30E-02	2.38E-03	5.96E-03
267657	9/3/2013 - 9/9/2013	Beta	2.56E-02	2.92E-03	7.37E-03
268493	9/9/2013 - 9/16/2013	Beta	2.71E-02	2.67E-03	6.47E-03
269653	9/16/2013 - 9/23/2013	Beta	2.07E-02	2.53E-03	6.53E-03
270755	9/23/2013 - 9/30/2013	Beta	1.36E-02	2.06E-03	5.51E-03
271480	9/30/2013 - 10/7/2013	Beta	3.05E-02	2.78E-03	6.56E-03
272087	10/7/2013 - 10/14/2013	Beta	6.88E-03	1.99E-03	6.13E-03
272470	10/14/2013 - 10/21/2013	Beta	1.56E-02	2.45E-03	6.78E-03
272597	7/1/2013 - 9/30/2013	I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<3.13E-04	0.00E+00	3.13E-04
		Cs-137	<3.44E-04	0.00E+00	3.44E-04
		Be-7	5.40E-02	3.51E-03	3.21E-03
		K-40	9.71E-03	1.72E-03	3.32E-03
272870	10/21/2013 - 10/28/2013	Beta	2.33E-02	2.45E-03	5.95E-03
273961	10/28/2013 - 11/4/2013	Beta	2.88E-02	2.75E-03	6.65E-03
274408	11/4/2013 - 11/11/2013	Beta	1.51E-02	2.37E-03	6.59E-03
274922	11/11/2013 - 11/18/2013	Beta	1.36E-02	2.27E-03	6.34E-03
276476	11/18/2013 - 11/25/2013	Beta	1.55E-02	2.34E-03	6.42E-03
277392	11/25/2013 - 12/2/2013	Beta	1.99E-02	2.42E-03	6.20E-03
278724	12/2/2013 - 12/9/2013	Beta	1.66E-02	2.30E-03	6.09E-03
278997	12/9/2013 - 12/16/2013	Beta	2.16E-02	2.45E-03	6.21E-03
279643	12/16/2013 - 12/23/2013	Beta	1.21E-02	2.33E-03	6.72E-03
280121	12/23/2013 - 12/30/2013	Beta	1.69E-02	2.26E-03	5.98E-03
280575	9/30/2013 - 12/30/2013	Cs-134	<6.62E-04	0.00E+00	6.62E-04
		Cs-137	<1.03E-03	0.00E+00	1.03E-03
		Be-7	1.04E-01	1.18E-02	1.32E-02
		K-40	3.82E-02	7.34E-03	1.26E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	250257	Sample Dates:	12/31/2012 - 1/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	3.15E-02	2.55E-03	5.49E-03
Sample ID:	250676	Sample Dates:	1/7/2013 - 1/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.08E-02	2.65E-03	7.25E-03
Sample ID:	250804	Sample Dates:	1/21/2013 - 1/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.41E-02	2.36E-03	5.45E-03
Sample ID:	251137	Sample Dates:	1/14/2013 - 1/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	8.54E-03	2.23E-03	6.85E-03
Sample ID:	251308	Sample Dates:	1/28/2013 - 2/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.15E-02	2.44E-03	6.15E-03
Sample ID:	251326	Sample Dates:	2/4/2013 - 2/11/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.89E-02	2.34E-03	6.05E-03
Sample ID:	251631	Sample Dates:	2/11/2013 - 2/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.31E-02	2.18E-03	6.07E-03
Sample ID:	252097	Sample Dates:	2/18/2013 - 2/25/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.30E-02	2.17E-03	6.04E-03
Sample ID:	252726	Sample Dates:	2/25/2013 - 3/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	9.30E-03	1.96E-03	5.68E-03
Sample ID:	253110	Sample Dates:	3/4/2013 - 3/11/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	8.06E-03	2.08E-03	6.27E-03
Sample ID:	253913	Sample Dates:	3/11/2013 - 3/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.31E-02	2.18E-03	6.11E-03
Sample ID:	254235	Sample Dates:	3/18/2013 - 3/25/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.69E-02	2.23E-03	5.87E-03
Sample ID:	254770	Sample Dates:	3/25/2013 - 4/1/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.22E-02	2.18E-03	6.15E-03
Sample ID:	255331	Sample Dates:	4/1/2013 - 4/8/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.99E-02	2.41E-03	6.20E-03
Sample ID:	255859	Sample Dates:	4/8/2013 - 4/15/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.64E-02	2.30E-03	6.13E-03
Sample ID:	256093	Sample Dates:	4/15/2013 - 4/22/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.32E-02	2.15E-03	5.89E-03
Sample ID:	256366	Sample Dates:	4/22/2013 - 4/29/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.92E-02	2.33E-03	5.90E-03
Sample ID:	256436	Sample Dates:	12/31/2012 - 4/1/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<5.18E-02	0.00E+00	5.18E-02
				Cs-134	<7.07E-04	0.00E+00	7.07E-04
				Cs-137	<7.08E-04	0.00E+00	7.08E-04
				Be-7	1.08E-01	9.12E-03	9.83E-03
				K-40	1.28E-02	4.43E-03	7.50E-03
Sample ID:	257156	Sample Dates:	4/29/2013 - 5/6/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	5.37E-03	2.09E-03	6.64E-03
Sample ID:	257312	Sample Dates:	5/6/2013 - 5/13/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.40E-02	2.31E-03	6.39E-03
Sample ID:	257759	Sample Dates:	5/13/2013 - 5/20/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.98E-02	2.67E-03	6.05E-03
Sample ID:	258003	Sample Dates:	5/20/2013 - 5/27/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	9.81E-03	2.30E-03	6.86E-03

# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
258238	5/27/2013 - 6/3/2013	Beta	1.68E-02	2.34E-03	6.20E-03
258585	6/3/2013 - 6/10/2013	Beta	8.90E-03	2.35E-03	7.17E-03
259062	6/10/2013 - 6/18/2013	Beta	1.53E-02	2.36E-03	6.49E-03
259610	6/18/2013 - 6/24/2013	Beta	1.13E-02	2.64E-03	7.88E-03
260244	6/24/2013 - 7/1/2013	Beta	1.63E-02	2.28E-03	5.99E-03
260704	7/1/2013 - 7/8/2013	Beta	9.52E-03	2.17E-03	6.41E-03
261667	7/8/2013 - 7/15/2013	Beta	7.86E-03	2.15E-03	6.53E-03
262170	7/15/2013 - 7/22/2013	Beta	1.13E-02	2.31E-03	6.73E-03
262754	7/15/2013 - 7/22/2013	Beta	1.13E-02	2.31E-03	6.73E-03
262754	4/1/2013 - 7/1/2013	I-131	<4.55E-02	0.00E+00	4.55E-02
		Cs-134	<5.89E-04	0.00E+00	5.89E-04
		Cs-137	<5.71E-04	0.00E+00	5.71E-04
		Be-7	1.38E-01	7.76E-03	9.25E-03
		K-40	2.86E-02	4.24E-03	6.72E-03
263175	7/22/2013 - 7/29/2013	Beta	1.76E-02	2.47E-03	6.64E-03
263402	7/29/2013 - 8/5/2013	Beta	2.00E-02	2.50E-03	6.50E-03
264060	8/5/2013 - 8/12/2013	Beta	1.66E-02	2.44E-03	6.67E-03
265191	8/12/2013 - 8/19/2013	Beta	1.32E-02	2.20E-03	6.08E-03
265500	8/19/2013 - 8/26/2013	Beta	1.15E-02	2.28E-03	6.59E-03
267186	8/26/2013 - 9/3/2013	Beta	2.09E-02	2.39E-03	6.15E-03
267659	9/3/2013 - 9/9/2013	Beta	1.83E-02	2.79E-03	7.61E-03
268495	9/9/2013 - 9/16/2013	Beta	2.42E-02	2.66E-03	6.68E-03
269655	9/16/2013 - 9/23/2013	Beta	1.99E-02	2.57E-03	6.74E-03
270757	9/23/2013 - 9/30/2013	Beta	4.20E-03	1.80E-03	5.70E-03
271482	9/30/2013 - 10/7/2013	Beta	2.20E-02	2.62E-03	6.77E-03
272089	10/7/2013 - 10/14/2013	Beta	4.82E-03	1.99E-03	6.35E-03
272473	10/14/2013 - 10/21/2013	Beta	1.83E-02	2.58E-03	7.00E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272598	7/1/2013 - 9/30/2013	I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.98E-04	0.00E+00	1.98E-04
		Cs-137	<2.24E-04	0.00E+00	2.24E-04
		Be-7	4.81E-02	2.44E-03	3.06E-03
		K-40	2.27E-02	1.64E-03	2.18E-03
272872	10/21/2013 - 10/28/2013	Beta	2.51E-02	2.57E-03	6.15E-03
273963	10/28/2013 - 11/4/2013	Beta	2.95E-02	2.82E-03	6.84E-03
274410	11/4/2013 - 11/11/2013	Beta	1.56E-02	2.45E-03	6.77E-03
274924	11/11/2013 - 11/18/2013	Beta	1.02E-02	2.21E-03	6.51E-03
276478	11/18/2013 - 11/25/2013	Beta	1.60E-02	2.41E-03	6.60E-03
277395	11/25/2013 - 12/2/2013	Beta	1.74E-02	2.39E-03	6.34E-03
278727	12/2/2013 - 12/9/2013	Beta	1.88E-02	2.41E-03	6.23E-03
279000	12/9/2013 - 12/16/2013	Beta	2.11E-02	2.48E-03	6.36E-03
279646	12/16/2013 - 12/23/2013	Beta	1.53E-02	2.46E-03	6.87E-03
280124	12/23/2013 - 12/30/2013	Beta	1.95E-02	2.38E-03	6.11E-03
280577	9/30/2013 - 12/30/2013	Cs-134	<5.72E-04	0.00E+00	5.72E-04
		Cs-137	<6.19E-04	0.00E+00	6.19E-04
		Be-7	9.82E-02	7.95E-03	1.08E-02
		K-40	3.67E-02	5.42E-03	6.22E-03

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250259	12/31/2012 - 1/7/2013	Beta	2.81E-02	2.56E-03	5.80E-03
250677	1/7/2013 - 1/14/2013	Beta	1.68E-02	2.67E-03	7.66E-03
250806	1/21/2013 - 1/28/2013	Beta	2.51E-02	2.41E-03	5.51E-03
251138	1/14/2013 - 1/21/2013	Beta	5.64E-03	2.18E-03	6.98E-03
251309	1/28/2013 - 2/4/2013	Beta	1.82E-02	2.40E-03	6.32E-03
251327	2/4/2013 - 2/11/2013	Beta	1.79E-02	2.35E-03	6.18E-03
251632	2/11/2013 - 2/18/2013	Beta	1.12E-02	2.17E-03	6.26E-03
252098	2/18/2013 - 2/25/2013	Beta	1.19E-02	2.16E-03	6.11E-03
252727	2/25/2013 - 3/4/2013	Beta	1.00E-02	2.03E-03	5.87E-03





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
253107	3/4/2013 - 3/11/2013	Beta	7.78E-03	2.10E-03	6.38E-03
253910	3/11/2013 - 3/18/2013	Beta	2.12E-02	2.47E-03	6.28E-03
254232	3/18/2013 - 3/25/2013	Beta	1.62E-02	2.27E-03	6.05E-03
254767	3/25/2013 - 4/1/2013	Beta	1.08E-02	2.17E-03	6.31E-03
255328	4/1/2013 - 4/8/2013	Beta	2.50E-02	2.61E-03	6.41E-03
255856	4/8/2013 - 4/15/2013	Beta	1.45E-02	2.33E-03	6.41E-03
256090	4/15/2013 - 4/22/2013	Beta	1.37E-02	2.23E-03	6.13E-03
256368	4/22/2013 - 4/29/2013	Beta	1.72E-02	2.32E-03	6.07E-03
256437	12/31/2012 - 4/1/2013	I-131	<6.81E-02	0.00E+00	6.81E-02
		Cs-134	<5.53E-04	0.00E+00	5.53E-04
		Cs-137	<8.51E-04	0.00E+00	8.51E-04
		Be-7	1.14E-01	9.33E-03	1.08E-02
		K-40	1.86E-02	3.57E-03	1.86E-03
257158	4/29/2013 - 5/6/2013	Beta	4.53E-03	2.00E-03	6.43E-03
257314	5/6/2013 - 5/13/2013	Beta	1.64E-02	2.29E-03	6.10E-03
257761	5/13/2013 - 5/20/2013	Beta	3.20E-02	2.69E-03	5.91E-03
258005	5/20/2013 - 5/27/2013	Beta	1.11E-02	2.27E-03	6.64E-03
258240	5/27/2013 - 6/3/2013	Beta	1.49E-02	2.24E-03	6.06E-03
258587	6/3/2013 - 6/10/2013	Beta	8.32E-03	2.26E-03	6.92E-03
259064	6/10/2013 - 6/18/2013	Beta	1.53E-02	2.09E-03	5.58E-03
259612	6/18/2013 - 6/24/2013	Beta	1.15E-02	2.54E-03	7.53E-03
260246	6/24/2013 - 7/1/2013	Beta	1.01E-02	2.01E-03	5.74E-03
260706	7/1/2013 - 7/8/2013	Beta	8.09E-03	2.07E-03	6.21E-03
261669	7/8/2013 - 7/15/2013	Beta	5.21E-03	2.01E-03	6.36E-03
262172	7/15/2013 - 7/22/2013	Beta	1.26E-02	2.27E-03	6.45E-03
262755	4/1/2013 - 7/1/2013	I-131	<5.41E-02	0.00E+00	5.41E-02
		Cs-134	<6.55E-04	0.00E+00	6.55E-04
		Cs-137	<6.95E-04	0.00E+00	6.95E-04



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
262755	4/1/2013 - 7/1/2013	Be-7	1.32E-01	8.24E-03	1.10E-02
		K-40	4.04E-02	6.28E-03	7.80E-03
263177	7/22/2013 - 7/29/2013	Beta	1.67E-02	2.38E-03	6.41E-03
263404	7/29/2013 - 8/5/2013	Beta	2.03E-02	2.46E-03	6.31E-03
264062	8/5/2013 - 8/12/2013	Beta	1.61E-02	2.42E-03	6.62E-03
265193	8/12/2013 - 8/19/2013	Beta	1.30E-02	2.10E-03	5.72E-03
265502	8/19/2013 - 8/26/2013	Beta	9.98E-03	2.16E-03	6.33E-03
267188	8/26/2013 - 9/3/2013	Beta	2.25E-02	2.37E-03	5.97E-03
267661	9/3/2013 - 9/9/2013	Beta	2.86E-02	2.99E-03	7.34E-03
268497	9/9/2013 - 9/16/2013	Beta	3.15E-02	2.83E-03	6.59E-03
269657	9/16/2013 - 9/23/2013	Beta	1.76E-02	2.40E-03	6.42E-03
270759	9/23/2013 - 9/30/2013	Beta	1.65E-02	2.17E-03	5.52E-03
271484	9/30/2013 - 10/7/2013	Beta	2.64E-02	2.67E-03	6.54E-03
272091	10/7/2013 - 10/14/2013	Beta	7.55E-03	2.04E-03	6.21E-03
272475	10/14/2013 - 10/21/2013	Beta	1.76E-02	2.44E-03	6.57E-03
272599	7/1/2013 - 9/30/2013	I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.83E-04	0.00E+00	2.83E-04
		Cs-137	<2.53E-04	0.00E+00	2.53E-04
		Be-7	5.76E-02	3.76E-03	4.40E-03
		K-40	1.80E-02	2.24E-03	2.26E-03
272874	10/21/2013 - 10/28/2013	Beta	2.32E-02	2.43E-03	5.90E-03
273965	10/28/2013 - 11/4/2013	Beta	3.02E-02	2.77E-03	6.61E-03
274412	11/4/2013 - 11/11/2013	Beta	1.49E-02	2.34E-03	6.48E-03
274926	11/11/2013 - 11/18/2013	Beta	1.17E-02	2.19E-03	6.28E-03
276480	11/18/2013 - 11/25/2013	Beta	1.52E-02	2.30E-03	6.30E-03
277397	11/25/2013 - 12/2/2013	Beta	2.06E-02	2.40E-03	6.09E-03
278729	12/2/2013 - 12/9/2013	Beta	1.71E-02	2.28E-03	5.96E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
279002	12/9/2013 - 12/16/2013	Beta	2.29E-02	2.40E-03	5.94E-03
279648	12/16/2013 - 12/23/2013	Beta	1.32E-02	2.36E-03	6.76E-03
280126	12/23/2013 - 12/30/2013	Beta	1.34E-02	2.13E-03	5.89E-03
280579	9/30/2013 - 12/30/2013	Cs-134	<7.57E-04	0.00E+00	7.57E-04
		Cs-137	<8.62E-04	0.00E+00	8.62E-04
		Be-7	1.11E-01	1.11E-02	1.32E-02
		K-40	3.56E-02	6.89E-03	1.05E-02

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250260	12/31/2012 - 1/7/2013	Beta	2.79E-02	2.59E-03	5.92E-03
250678	1/7/2013 - 1/14/2013	Beta	1.66E-02	2.72E-03	7.87E-03
250807	1/21/2013 - 1/28/2013	Beta	2.17E-02	2.35E-03	5.64E-03
251139	1/14/2013 - 1/21/2013	Beta	7.79E-03	2.29E-03	7.15E-03
251310	1/28/2013 - 2/4/2013	Beta	1.75E-02	2.41E-03	6.44E-03
251328	2/4/2013 - 2/11/2013	Beta	1.62E-02	2.34E-03	6.30E-03
251633	2/11/2013 - 2/18/2013	Beta	1.24E-02	2.24E-03	6.38E-03
252099	2/18/2013 - 2/25/2013	Beta	1.24E-02	2.20E-03	6.21E-03
252728	2/25/2013 - 3/4/2013	Beta	9.06E-03	2.03E-03	5.96E-03
253108	3/4/2013 - 3/11/2013	Beta	8.40E-03	2.16E-03	6.51E-03
253911	3/11/2013 - 3/18/2013	Beta	1.60E-02	2.35E-03	6.39E-03
254233	3/18/2013 - 3/25/2013	Beta	1.34E-02	2.22E-03	6.15E-03
254768	3/25/2013 - 4/1/2013	Beta	1.16E-02	2.22E-03	6.39E-03
255329	4/1/2013 - 4/8/2013	Beta	1.80E-02	2.45E-03	6.50E-03
255857	4/8/2013 - 4/15/2013	Beta	1.68E-02	2.44E-03	6.56E-03
256091	4/15/2013 - 4/22/2013	Beta	1.21E-02	2.21E-03	6.21E-03
256369	4/22/2013 - 4/29/2013	Beta	1.55E-02	2.28E-03	6.12E-03
256438	12/31/2012 - 4/1/2013	I-131	<5.41E-02	0.00E+00	5.41E-02
		Cs-134	<6.44E-04	0.00E+00	6.44E-04



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256438	12/31/2012 - 4/1/2013	Cs-137	<8.10E-04	0.00E+00	8.10E-04
		Be-7	1.26E-01	8.02E-03	1.12E-02
		K-40	2.45E-02	4.82E-03	7.46E-03
		Beta			
257159	4/29/2013 - 5/6/2013	Beta	9.54E-03	2.28E-03	6.84E-03
257315	5/6/2013 - 5/13/2013	Beta	1.51E-02	2.36E-03	6.46E-03
257762	5/13/2013 - 5/20/2013	Beta	3.08E-02	2.76E-03	6.22E-03
258006	5/20/2013 - 5/27/2013	Beta	5.70E-03	2.21E-03	7.03E-03
258241	5/27/2013 - 6/3/2013	Beta	1.49E-02	2.34E-03	6.39E-03
258588	6/3/2013 - 6/10/2013	Beta	8.37E-03	2.38E-03	7.32E-03
259065	6/10/2013 - 6/18/2013	Beta	1.86E-02	2.28E-03	5.89E-03
259613	6/18/2013 - 6/24/2013	Beta	8.66E-03	2.59E-03	7.98E-03
260247	6/24/2013 - 7/1/2013	Beta	1.54E-02	2.29E-03	6.08E-03
260707	7/1/2013 - 7/8/2013	Beta	7.96E-03	2.16E-03	6.56E-03
261670	7/8/2013 - 7/15/2013	Beta	5.70E-03	2.13E-03	6.73E-03
262173	7/15/2013 - 7/22/2013	Beta	1.60E-02	2.48E-03	6.82E-03
262756	4/1/2013 - 7/1/2013	I-131	<5.56E-02	0.00E+00	5.56E-02
		Cs-134	<5.78E-04	0.00E+00	5.78E-04
		Cs-137	<7.81E-04	0.00E+00	7.81E-04
		Be-7	1.49E-01	9.66E-03	9.79E-03
		K-40	4.78E-02	5.38E-03	4.71E-03
		Beta			
263178	7/22/2013 - 7/29/2013	Beta	1.51E-02	2.44E-03	6.78E-03
263405	7/29/2013 - 8/5/2013	Beta	2.07E-02	2.57E-03	6.68E-03
264063	8/5/2013 - 8/12/2013	Beta	1.62E-02	2.53E-03	7.01E-03
265194	8/12/2013 - 8/19/2013	Beta	1.68E-02	2.31E-03	6.03E-03
265503	8/19/2013 - 8/26/2013	Beta	1.33E-02	2.37E-03	6.72E-03
267189	8/26/2013 - 9/3/2013	Beta	2.04E-02	2.48E-03	6.51E-03
267662	9/3/2013 - 9/9/2013	Beta	2.28E-02	3.06E-03	8.08E-03
268498	9/9/2013 - 9/16/2013	Beta	2.79E-02	2.92E-03	7.19E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	269658	Sample Dates:	9/16/2013 - 9/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.98E-02	2.66E-03	7.08E-03
Sample ID:	270760	Sample Dates:	9/23/2013 - 9/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.95E-02	2.43E-03	6.08E-03
Sample ID:	271485	Sample Dates:	9/30/2013 - 10/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.27E-02	2.78E-03	7.21E-03
Sample ID:	272092	Sample Dates:	10/7/2013 - 10/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	5.90E-03	2.18E-03	6.86E-03
Sample ID:	272476	Sample Dates:	10/14/2013 - 10/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.38E-02	2.53E-03	7.24E-03
Sample ID:	272600	Sample Dates:	7/1/2013 - 9/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.28E-02	0.00E+00	2.28E-02
				Cs-134	<2.58E-04	0.00E+00	2.58E-04
				Cs-137	<3.51E-04	0.00E+00	3.51E-04
				Be-7	5.90E-02	4.04E-03	3.36E-03
				K-40	6.88E-03	1.85E-03	3.84E-03
Sample ID:	272875	Sample Dates:	10/21/2013 - 10/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.39E-02	2.63E-03	6.49E-03
Sample ID:	273966	Sample Dates:	10/28/2013 - 11/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.70E-02	2.88E-03	7.25E-03
Sample ID:	274413	Sample Dates:	11/4/2013 - 11/11/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.85E-02	2.63E-03	7.13E-03
Sample ID:	274927	Sample Dates:	11/11/2013 - 11/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	9.43E-03	2.30E-03	6.90E-03
Sample ID:	276481	Sample Dates:	11/18/2013 - 11/25/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.21E-02	2.39E-03	6.93E-03
Sample ID:	277398	Sample Dates:	11/25/2013 - 12/2/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.73E-02	2.50E-03	6.71E-03
Sample ID:	278730	Sample Dates:	12/2/2013 - 12/9/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.80E-02	2.49E-03	6.56E-03
Sample ID:	279003	Sample Dates:	12/9/2013 - 12/16/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.10E-02	2.54E-03	6.56E-03
Sample ID:	279649	Sample Dates:	12/16/2013 - 12/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.17E-02	2.52E-03	7.43E-03
Sample ID:	280127	Sample Dates:	12/23/2013 - 12/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.41E-02	2.34E-03	6.48E-03
Sample ID:	280580	Sample Dates:	9/30/2013 - 12/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Cs-134	<6.24E-04	0.00E+00	6.24E-04
				Cs-137	<5.31E-04	0.00E+00	5.31E-04
				Be-7	1.14E-01	7.80E-03	1.08E-02
				K-40	4.47E-02	5.02E-03	5.55E-03

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	250261	Sample Dates:	12/31/2012 - 1/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.25E-02	2.41E-03	5.82E-03
Sample ID:	250679	Sample Dates:	1/7/2013 - 1/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.65E-02	2.67E-03	7.70E-03
Sample ID:	250808	Sample Dates:	1/21/2013 - 1/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.86E-02	2.53E-03	5.60E-03
Sample ID:	251140	Sample Dates:	1/14/2013 - 1/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	7.33E-03	2.25E-03	7.05E-03

# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
251311	1/28/2013 - 2/4/2013	Beta	1.83E-02	2.42E-03	6.39E-03
251329	2/4/2013 - 2/11/2013	Beta	1.62E-02	2.32E-03	6.25E-03
251634	2/11/2013 - 2/18/2013	Beta	1.46E-02	2.28E-03	6.28E-03
252100	2/18/2013 - 2/25/2013	Beta	1.74E-02	2.36E-03	6.26E-03
252729	2/25/2013 - 3/4/2013	Beta	8.00E-03	2.00E-03	5.97E-03
253109	3/4/2013 - 3/11/2013	Beta	7.99E-03	2.13E-03	6.49E-03
253912	3/11/2013 - 3/18/2013	Beta	1.69E-02	2.38E-03	6.36E-03
254234	3/18/2013 - 3/25/2013	Beta	1.76E-02	2.33E-03	6.15E-03
254769	3/25/2013 - 4/1/2013	Beta	1.23E-02	2.24E-03	6.38E-03
255330	4/1/2013 - 4/8/2013	Beta	1.80E-02	2.44E-03	6.49E-03
255858	4/8/2013 - 4/15/2013	Beta	1.60E-02	2.42E-03	6.55E-03
256092	4/15/2013 - 4/22/2013	Beta	1.68E-02	2.34E-03	6.18E-03
256370	4/22/2013 - 4/29/2013	Beta	1.83E-02	2.40E-03	6.22E-03
256439	12/31/2012 - 4/1/2013	I-131	<4.88E-02	0.00E+00	4.88E-02
		Cs-134	<7.54E-04	0.00E+00	7.54E-04
		Cs-137	<6.90E-04	0.00E+00	6.90E-04
		Be-7	1.23E-01	1.14E-02	1.11E-02
		K-40	1.74E-02	5.68E-03	1.14E-02
257160	4/29/2013 - 5/6/2013	Beta	6.27E-03	2.06E-03	6.42E-03
257316	5/6/2013 - 5/13/2013	Beta	1.28E-02	2.18E-03	6.10E-03
257763	5/13/2013 - 5/20/2013	Beta	2.62E-02	2.52E-03	5.88E-03
258007	5/20/2013 - 5/27/2013	Beta	1.08E-02	2.27E-03	6.65E-03
258242	5/27/2013 - 6/3/2013	Beta	1.52E-02	2.26E-03	6.08E-03
258589	6/3/2013 - 6/10/2013	Beta	9.30E-03	2.29E-03	6.94E-03
259066	6/10/2013 - 6/18/2013	Beta	1.46E-02	2.07E-03	5.59E-03
259614	6/18/2013 - 6/24/2013	Beta	1.09E-02	2.52E-03	7.52E-03



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	260248	Sample Dates:	6/24/2013 - 7/1/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.52E-02	2.17E-03	5.71E-03
Sample ID:	260708	Sample Dates:	7/1/2013 - 7/8/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	6.66E-03	2.00E-03	6.15E-03
Sample ID:	261671	Sample Dates:	7/8/2013 - 7/15/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	9.03E-03	2.12E-03	6.31E-03
Sample ID:	262174	Sample Dates:	7/15/2013 - 7/22/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.37E-02	2.28E-03	6.40E-03
Sample ID:	262757	Sample Dates:	4/1/2013 - 7/1/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<5.18E-02	0.00E+00	5.18E-02
				Cs-134	<5.41E-04	0.00E+00	5.41E-04
				Cs-137	<6.59E-04	0.00E+00	6.59E-04
				Be-7	1.40E-01	1.00E-02	9.49E-03
				K-40	2.20E-02	4.70E-03	8.95E-03
Sample ID:	263179	Sample Dates:	7/22/2013 - 7/29/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.34E-02	2.28E-03	6.40E-03
Sample ID:	263406	Sample Dates:	7/29/2013 - 8/5/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.86E-02	2.39E-03	6.28E-03
Sample ID:	264064	Sample Dates:	8/5/2013 - 8/12/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.68E-02	2.41E-03	6.55E-03
Sample ID:	265195	Sample Dates:	8/12/2013 - 8/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.53E-02	2.16E-03	5.70E-03
Sample ID:	265504	Sample Dates:	8/19/2013 - 8/26/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	9.52E-03	2.12E-03	6.27E-03
Sample ID:	267190	Sample Dates:	8/26/2013 - 9/3/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.49E-02	2.42E-03	5.93E-03
Sample ID:	267663	Sample Dates:	9/3/2013 - 9/9/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.64E-02	2.91E-03	7.27E-03
Sample ID:	268499	Sample Dates:	9/9/2013 - 9/16/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.71E-02	2.68E-03	6.51E-03
Sample ID:	269659	Sample Dates:	9/16/2013 - 9/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.23E-02	2.52E-03	6.37E-03
Sample ID:	270761	Sample Dates:	9/23/2013 - 9/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.66E-02	2.16E-03	5.50E-03
Sample ID:	271486	Sample Dates:	9/30/2013 - 10/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.79E-02	2.69E-03	6.47E-03
Sample ID:	272093	Sample Dates:	10/7/2013 - 10/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	7.84E-03	2.04E-03	6.19E-03
Sample ID:	272477	Sample Dates:	10/14/2013 - 10/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	1.34E-02	2.31E-03	6.52E-03
Sample ID:	272601	Sample Dates:	7/1/2013 - 9/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.13E-02	0.00E+00	2.13E-02
				Cs-134	<2.19E-04	0.00E+00	2.19E-04
				Cs-137	<2.39E-04	0.00E+00	2.39E-04
				Be-7	5.87E-02	3.34E-03	3.48E-03
				K-40	8.58E-03	1.78E-03	3.90E-03
Sample ID:	272876	Sample Dates:	10/21/2013 - 10/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	2.29E-02	2.40E-03	5.84E-03
Sample ID:	273967	Sample Dates:	10/28/2013 - 11/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				Beta	3.13E-02	2.78E-03	6.57E-03

## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274414	11/4/2013 - 11/11/2013	Beta	1.67E-02	2.38E-03	6.42E-03
274928	11/11/2013 - 11/18/2013	Beta	1.70E-02	2.33E-03	6.21E-03
276482	11/18/2013 - 11/25/2013	Beta	1.20E-02	2.19E-03	6.27E-03
277399	11/25/2013 - 12/2/2013	Beta	1.73E-02	2.29E-03	6.02E-03
278731	12/2/2013 - 12/9/2013	Beta	1.94E-02	2.32E-03	5.87E-03
279004	12/9/2013 - 12/16/2013	Beta	2.30E-02	2.45E-03	6.07E-03
279650	12/16/2013 - 12/23/2013	Beta	1.44E-02	2.31E-03	6.43E-03
280128	12/23/2013 - 12/30/2013	Beta	1.50E-02	2.17E-03	5.83E-03
280581	9/30/2013 - 12/30/2013	Cs-134	<4.92E-04	0.00E+00	4.92E-04
		Cs-137	<5.62E-04	0.00E+00	5.62E-04
		Be-7	1.06E-01	8.89E-03	8.46E-03
		K-40	2.30E-02	4.77E-03	6.27E-03

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249840	12/31/2012 - 1/7/2013	I-131	<5.60E-02	0.00E+00	5.60E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<3.67E-02	0.00E+00	3.67E-02
		Be-7	<3.07E-01	0.00E+00	3.07E-01
		K-40	<9.30E-01	0.00E+00	9.30E-01
250662	1/7/2013 - 1/14/2013	I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<3.67E-02	0.00E+00	3.67E-02
		Cs-137	<3.68E-02	0.00E+00	3.68E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	1.01E+00	2.21E-01	5.30E-01
250809	1/21/2013 - 1/28/2013	I-131	<4.93E-03	0.00E+00	4.93E-03
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	<6.13E-01	0.00E+00	6.13E-01
251141	1/14/2013 - 1/21/2013	I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	1.36E+00	1.95E-01	2.02E-01
251313	1/28/2013 - 2/4/2013	I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<2.97E-02	0.00E+00	2.97E-02
		Cs-137	<3.52E-02	0.00E+00	3.52E-02
		Be-7	<2.65E-01	0.00E+00	2.65E-01
		K-40	8.57E-01	2.02E-01	5.51E-01
251331	2/4/2013 - 2/11/2013	I-131	<2.66E-02	0.00E+00	2.66E-02





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251331	2/4/2013 - 2/11/2013	Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	4.43E-01	1.80E-01	2.91E-01
251618	2/11/2013 - 2/18/2013	I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<2.27E-01	0.00E+00	2.27E-01
		K-40	1.05E+00	1.71E-01	7.49E-02
252084	2/18/2013 - 2/25/2013	I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<2.82E-02	0.00E+00	2.82E-02
		Cs-137	<3.80E-02	0.00E+00	3.80E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	9.48E-01	2.18E-01	1.35E-01
252713	2/25/2013 - 3/4/2013	I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.66E-02	0.00E+00	2.66E-02
		Cs-137	<3.36E-02	0.00E+00	3.36E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	1.12E+00	2.24E-01	1.21E-01
253093	3/4/2013 - 3/11/2013	I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<3.46E-02	0.00E+00	3.46E-02
		Be-7	<2.89E-01	0.00E+00	2.89E-01
		K-40	7.37E-01	1.90E-01	6.42E-01
253896	3/11/2013 - 3/18/2013	I-131	<4.10E-02	0.00E+00	4.10E-02
		Cs-134	<2.69E-02	0.00E+00	2.69E-02
		Cs-137	<4.33E-02	0.00E+00	4.33E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	9.05E-01	2.68E-01	4.28E-01
254218	3/18/2013 - 3/25/2013	I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<3.52E-02	0.00E+00	3.52E-02
		Cs-137	<3.21E-02	0.00E+00	3.21E-02
		Be-7	<2.38E-01	0.00E+00	2.38E-01
		K-40	8.30E-01	2.01E-01	3.52E-01
254753	3/25/2013 - 4/1/2013	I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	6.53E-01	2.26E-01	3.21E-01
255314	4/1/2013 - 4/8/2013	I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<3.91E-02	0.00E+00	3.91E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<2.12E-01	0.00E+00	2.12E-01
		K-40	7.40E-01	1.91E-01	3.57E-01
255842	4/8/2013 - 4/15/2013	I-131	<3.67E-02	0.00E+00	3.67E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<3.64E-02	0.00E+00	3.64E-02
		Be-7	<2.49E-01	0.00E+00	2.49E-01
		K-40	6.54E-01	2.22E-01	4.42E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256076	4/15/2013 - 4/22/2013	I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	1.23E+00	1.92E-01	3.29E-01
256354	4/22/2013 - 4/29/2013	I-131	<3.24E-02	0.00E+00	3.24E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<3.21E-02	0.00E+00	3.21E-02
		Be-7	<2.32E-01	0.00E+00	2.32E-01
		K-40	9.41E-01	2.99E-01	4.70E-01
257144	4/29/2013 - 5/6/2013	I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<2.45E-02	0.00E+00	2.45E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	7.75E-01	2.55E-01	4.56E-01
257300	5/6/2013 - 5/13/2013	I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<6.28E-03	0.00E+00	6.28E-03
		Cs-137	<3.80E-02	0.00E+00	3.80E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	7.61E-01	2.50E-01	4.55E-01
257747	5/13/2013 - 5/20/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	1.02E+00	1.62E-01	6.92E-02
257991	5/20/2013 - 5/27/2013	I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	5.78E-01	1.57E-01	2.65E-01
258226	5/27/2013 - 6/3/2013	I-131	<5.87E-02	0.00E+00	5.87E-02
		Cs-134	<4.22E-02	0.00E+00	4.22E-02
		Cs-137	<4.69E-02	0.00E+00	4.69E-02
		Be-7	<2.73E-01	0.00E+00	2.73E-01
		K-40	7.24E-01	2.09E-01	7.50E-01
258573	6/3/2013 - 6/10/2013	I-131	<6.76E-02	0.00E+00	6.76E-02
		Cs-134	<3.97E-02	0.00E+00	3.97E-02
		Cs-137	<4.06E-02	0.00E+00	4.06E-02
		Be-7	<3.19E-01	0.00E+00	3.19E-01
		K-40	6.59E-01	2.57E-01	5.78E-01
259049	6/10/2013 - 6/18/2013	I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	1.43E+00	1.89E-01	2.69E-01
259597	6/18/2013 - 6/24/2013	I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	1.24E+00	2.42E-01	3.95E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260231	6/24/2013 - 7/1/2013	I-131	<3.93E-02	0.00E+00	3.93E-02
		Cs-134	<3.38E-02	0.00E+00	3.38E-02
		Cs-137	<3.60E-02	0.00E+00	3.60E-02
		Be-7	<2.68E-01	0.00E+00	2.68E-01
		K-40	5.83E-01	2.60E-01	6.77E-01
260691	7/1/2013 - 7/8/2013	I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	<1.15E+00	0.00E+00	1.15E+00
261654	7/8/2013 - 7/15/2013	I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<3.25E-02	0.00E+00	3.25E-02
		Cs-137	<4.16E-02	0.00E+00	4.16E-02
		Be-7	<2.66E-01	0.00E+00	2.66E-01
		K-40	9.22E-01	2.17E-01	1.38E-01
262156	7/15/2013 - 7/22/2013	I-131	<3.68E-02	0.00E+00	3.68E-02
		Cs-134	<3.07E-02	0.00E+00	3.07E-02
		Cs-137	<2.98E-02	0.00E+00	2.98E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	1.18E+00	2.47E-01	1.39E-01
263162	7/22/2013 - 7/29/2013	I-131	<3.15E-02	0.00E+00	3.15E-02
		Cs-134	<2.52E-02	0.00E+00	2.52E-02
		Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	<9.07E-01	0.00E+00	9.07E-01
263389	7/29/2013 - 8/5/2013	I-131	<5.07E-02	0.00E+00	5.07E-02
		Cs-134	<3.56E-02	0.00E+00	3.56E-02
		Cs-137	<3.93E-02	0.00E+00	3.93E-02
		Be-7	<3.55E-01	0.00E+00	3.55E-01
		K-40	1.16E+00	3.30E-01	5.76E-01
264047	8/5/2013 - 8/12/2013	I-131	<4.78E-02	0.00E+00	4.78E-02
		Cs-134	<4.01E-02	0.00E+00	4.01E-02
		Cs-137	<4.04E-02	0.00E+00	4.04E-02
		Be-7	<3.58E-01	0.00E+00	3.58E-01
		K-40	1.10E+00	2.59E-01	1.65E-01
265178	8/12/2013 - 8/19/2013	I-131	<4.45E-02	0.00E+00	4.45E-02
		Cs-134	<3.70E-02	0.00E+00	3.70E-02
		Cs-137	<4.62E-02	0.00E+00	4.62E-02
		Be-7	<2.19E-01	0.00E+00	2.19E-01
		K-40	<1.15E+00	0.00E+00	1.15E+00
265487	8/19/2013 - 8/26/2013	I-131	<4.51E-02	0.00E+00	4.51E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<3.54E-02	0.00E+00	3.54E-02
		Be-7	<3.32E-01	0.00E+00	3.32E-01
		K-40	6.11E-01	2.43E-01	4.58E-01
267173	8/26/2013 - 9/3/2013	I-131	<6.03E-02	0.00E+00	6.03E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<4.07E-02	0.00E+00	4.07E-02
		Be-7	<2.82E-01	0.00E+00	2.82E-01
		K-40	<1.08E+00	0.00E+00	1.08E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267646	9/3/2013 - 9/9/2013	I-131	<6.90E-02	0.00E+00	6.90E-02
		Cs-134	<4.66E-02	0.00E+00	4.66E-02
		Cs-137	<5.34E-02	0.00E+00	5.34E-02
		Be-7	<3.92E-01	0.00E+00	3.92E-01
		K-40	<1.38E+00	0.00E+00	1.38E+00
268482	9/9/2013 - 9/16/2013	I-131	<4.88E-02	0.00E+00	4.88E-02
		Cs-134	<3.39E-02	0.00E+00	3.39E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<4.04E-01	0.00E+00	4.04E-01
		K-40	9.09E-01	2.35E-01	4.58E-01
269642	9/16/2013 - 9/23/2013	I-131	<4.32E-02	0.00E+00	4.32E-02
		Cs-134	<3.83E-02	0.00E+00	3.83E-02
		Cs-137	<3.49E-02	0.00E+00	3.49E-02
		Be-7	<3.89E-01	0.00E+00	3.89E-01
		K-40	1.16E+00	2.65E-01	7.55E-01
270744	9/23/2013 - 9/30/2013	I-131	<3.82E-02	0.00E+00	3.82E-02
		Cs-134	<3.35E-02	0.00E+00	3.35E-02
		Cs-137	<3.52E-02	0.00E+00	3.52E-02
		Be-7	<3.07E-01	0.00E+00	3.07E-01
		K-40	8.99E-01	2.32E-01	5.46E-01
271469	9/30/2013 - 10/7/2013	I-131	<4.81E-02	0.00E+00	4.81E-02
		Cs-134	<4.47E-02	0.00E+00	4.47E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<3.35E-01	0.00E+00	3.35E-01
		K-40	9.70E-01	2.42E-01	1.64E-01
272076	10/7/2013 - 10/14/2013	I-131	<3.81E-02	0.00E+00	3.81E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<4.29E-02	0.00E+00	4.29E-02
		Be-7	<3.58E-01	0.00E+00	3.58E-01
		K-40	7.85E-01	2.18E-01	6.32E-01
272459	10/14/2013 - 10/21/2013	I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	1.19E+00	1.73E-01	1.84E-01
272859	10/21/2013 - 10/28/2013	I-131	<4.79E-02	0.00E+00	4.79E-02
		Cs-134	<3.30E-02	0.00E+00	3.30E-02
		Cs-137	<3.98E-02	0.00E+00	3.98E-02
		Be-7	<2.75E-01	0.00E+00	2.75E-01
		K-40	6.22E-01	2.41E-01	6.30E-01
273950	10/28/2013 - 11/4/2013	I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	1.02E+00	2.08E-01	3.87E-01
274397	11/4/2013 - 11/11/2013	I-131	<3.59E-02	0.00E+00	3.59E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<4.76E-02	0.00E+00	4.76E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	5.65E-01	3.30E-01	7.65E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274911	11/11/2013 - 11/18/2013	I-131	<6.10E-02	0.00E+00	6.10E-02
		Cs-134	<4.00E-02	0.00E+00	4.00E-02
		Cs-137	<5.37E-02	0.00E+00	5.37E-02
		Be-7	<2.46E-01	0.00E+00	2.46E-01
		K-40	1.49E+00	2.98E-01	5.12E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276465	11/18/2013 - 11/25/2013	I-131	<4.70E-02	0.00E+00	4.70E-02
		Cs-134	<3.23E-02	0.00E+00	3.23E-02
		Cs-137	<4.89E-02	0.00E+00	4.89E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	<1.16E+00	0.00E+00	1.16E+00

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
277381	11/25/2013 - 12/2/2013	I-131	<3.94E-02	0.00E+00	3.94E-02
		Cs-134	<4.67E-02	0.00E+00	4.67E-02
		Cs-137	<4.60E-02	0.00E+00	4.60E-02
		Be-7	<2.86E-01	0.00E+00	2.86E-01
		K-40	1.36E+00	2.84E-01	4.25E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
278713	12/2/2013 - 12/9/2013	I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<4.20E-02	0.00E+00	4.20E-02
		Cs-137	<4.44E-02	0.00E+00	4.44E-02
		Be-7	<3.41E-01	0.00E+00	3.41E-01
		K-40	<1.20E+00	0.00E+00	1.20E+00

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
278986	12/9/2013 - 12/16/2013	I-131	<5.50E-02	0.00E+00	5.50E-02
		Cs-134	<4.17E-02	0.00E+00	4.17E-02
		Cs-137	<3.60E-02	0.00E+00	3.60E-02
		Be-7	<3.12E-01	0.00E+00	3.12E-01
		K-40	<1.29E+00	0.00E+00	1.29E+00

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
279632	12/16/2013 - 12/23/2013	I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	1.28E-01	4.35E-02	1.42E-01
		K-40	1.27E+00	1.79E-01	1.86E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
280110	12/23/2013 - 12/30/2013	I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<3.92E-02	0.00E+00	3.92E-02
		Cs-137	<3.90E-02	0.00E+00	3.90E-02
		Be-7	<2.73E-01	0.00E+00	2.73E-01
		K-40	7.17E-01	2.58E-01	4.43E-01

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249841	12/31/2012 - 1/7/2013	I-131	<6.77E-02	0.00E+00	6.77E-02
		Cs-134	<3.42E-02	0.00E+00	3.42E-02
		Cs-137	<2.84E-02	0.00E+00	2.84E-02
		Be-7	<2.22E-01	0.00E+00	2.22E-01
		K-40	8.33E-01	2.56E-01	4.55E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250663	1/7/2013 - 1/14/2013	I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<4.09E-02	0.00E+00	4.09E-02
		Be-7	<2.43E-01	0.00E+00	2.43E-01
		K-40	6.44E-01	1.79E-01	3.66E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250810	1/21/2013 - 1/28/2013	I-131	<3.81E-02	0.00E+00	3.81E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<3.11E-02	0.00E+00	3.11E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250810	1/21/2013 - 1/28/2013	K-40	1.03E+00	2.20E-01	3.54E-01
251142	1/14/2013 - 1/21/2013	I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	<7.10E-01	0.00E+00	7.10E-01
251296	1/28/2013 - 2/4/2013	I-131	<1.35E-02	0.00E+00	1.35E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<2.51E-02	0.00E+00	2.51E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	7.30E-01	1.77E-01	3.66E-01
251314	2/4/2013 - 2/11/2013	I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	8.26E-01	1.40E-01	2.19E-01
251619	2/11/2013 - 2/18/2013	I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<3.68E-02	0.00E+00	3.68E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	9.78E-01	2.08E-01	1.20E-01
252085	2/18/2013 - 2/25/2013	I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.80E-02	0.00E+00	2.80E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	4.70E-01	1.78E-01	4.59E-01
252714	2/25/2013 - 3/4/2013	I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	4.57E-01	1.71E-01	7.81E-02
253094	3/4/2013 - 3/11/2013	I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<3.36E-02	0.00E+00	3.36E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	1.09E+00	2.32E-01	3.48E-01
253897	3/11/2013 - 3/18/2013	I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<2.50E-01	0.00E+00	2.50E-01
		K-40	9.38E-01	2.15E-01	5.64E-01
254219	3/18/2013 - 3/25/2013	I-131	<3.36E-02	0.00E+00	3.36E-02
		Cs-134	<6.05E-03	0.00E+00	6.05E-03
		Cs-137	<3.96E-02	0.00E+00	3.96E-02
		Be-7	<2.57E-01	0.00E+00	2.57E-01
		K-40	<9.33E-01	0.00E+00	9.33E-01
254754	3/25/2013 - 4/1/2013	I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
254754	3/25/2013 - 4/1/2013	Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	7.65E-01	1.47E-01	2.05E-01
255315	4/1/2013 - 4/8/2013	I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<3.35E-02	0.00E+00	3.35E-02
		Cs-137	<3.19E-02	0.00E+00	3.19E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	1.06E+00	2.80E-01	4.50E-01
255843	4/8/2013 - 4/15/2013	I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	8.17E-01	1.78E-01	1.05E-01
256077	4/15/2013 - 4/22/2013	I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	1.13E+00	1.81E-01	2.61E-01
256355	4/22/2013 - 4/29/2013	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	1.28E+00	2.84E-01	1.24E-01
257145	4/29/2013 - 5/6/2013	I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	8.06E-01	2.06E-01	2.79E-01
257301	5/6/2013 - 5/13/2013	I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<2.65E-02	0.00E+00	2.65E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	9.70E-01	2.08E-01	2.20E-01
257748	5/13/2013 - 5/20/2013	I-131	<3.61E-02	0.00E+00	3.61E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<3.84E-02	0.00E+00	3.84E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
		K-40	1.08E+00	2.35E-01	1.38E-01
257992	5/20/2013 - 5/27/2013	I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	6.96E-01	1.69E-01	2.67E-01
258227	5/27/2013 - 6/3/2013	I-131	<5.32E-02	0.00E+00	5.32E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<4.18E-02	0.00E+00	4.18E-02
		Be-7	<2.91E-01	0.00E+00	2.91E-01
		K-40	5.59E-01	3.38E-01	4.58E-01
258574	6/3/2013 - 6/10/2013	I-131	<5.64E-02	0.00E+00	5.64E-02
		Cs-134	<3.39E-02	0.00E+00	3.39E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258574	6/3/2013 - 6/10/2013	Cs-137	<5.08E-02	0.00E+00	5.08E-02
		Be-7	<2.95E-01	0.00E+00	2.95E-01
		K-40	1.16E+00	2.65E-01	7.55E-01
259050	6/10/2013 - 6/18/2013	I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	9.82E-01	1.57E-01	2.25E-01
259598	6/18/2013 - 6/24/2013	I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.00E-01	0.00E+00	2.00E-01
		K-40	1.38E+00	2.18E-01	2.53E-01
260232	6/24/2013 - 7/1/2013	I-131	<4.79E-02	0.00E+00	4.79E-02
		Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<4.66E-02	0.00E+00	4.66E-02
		Be-7	<2.69E-01	0.00E+00	2.69E-01
		K-40	5.00E-01	2.54E-01	5.85E-01
260692	7/1/2013 - 7/8/2013	I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	8.93E-01	2.04E-01	3.05E-01
261655	7/8/2013 - 7/15/2013	I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	9.65E-01	2.06E-01	1.18E-01
262157	7/15/2013 - 7/22/2013	I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	1.35E+00	1.89E-01	1.91E-01
263163	7/22/2013 - 7/29/2013	I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	1.10E+00	1.78E-01	2.60E-01
263390	7/29/2013 - 8/5/2013	I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<3.87E-02	0.00E+00	3.87E-02
		Be-7	<1.90E-01	0.00E+00	1.90E-01
		K-40	7.71E-01	1.99E-01	1.39E-01
264048	8/5/2013 - 8/12/2013	I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	1.00E+00	2.10E-01	2.83E-01
265179	8/12/2013 - 8/19/2013	I-131	<5.62E-02	0.00E+00	5.62E-02





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265179	8/12/2013 - 8/19/2013	Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<4.74E-02	0.00E+00	4.74E-02
		Be-7	<3.10E-01	0.00E+00	3.10E-01
		K-40	1.40E+00	2.93E-01	5.81E-01
265488	8/19/2013 - 8/26/2013	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<2.85E-02	0.00E+00	2.85E-02
		Cs-137	<3.20E-02	0.00E+00	3.20E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	5.56E-01	1.60E-01	4.10E-01
267174	8/26/2013 - 9/3/2013	I-131	<4.84E-02	0.00E+00	4.84E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	4.29E-01	1.52E-01	1.45E-01
267647	9/3/2013 - 9/9/2013	I-131	<4.96E-02	0.00E+00	4.96E-02
		Cs-134	<3.75E-02	0.00E+00	3.75E-02
		Cs-137	<5.42E-02	0.00E+00	5.42E-02
		Be-7	<3.76E-01	0.00E+00	3.76E-01
		K-40	1.22E+00	2.95E-01	5.17E-01
268483	9/9/2013 - 9/16/2013	I-131	<5.71E-02	0.00E+00	5.71E-02
		Cs-134	<4.38E-02	0.00E+00	4.38E-02
		Cs-137	<3.90E-02	0.00E+00	3.90E-02
		Be-7	<3.85E-01	0.00E+00	3.85E-01
		K-40	<9.72E-01	0.00E+00	9.72E-01
269643	9/16/2013 - 9/23/2013	I-131	<3.24E-02	0.00E+00	3.24E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<6.78E-03	0.00E+00	6.78E-03
		Be-7	<1.91E-01	0.00E+00	1.91E-01
		K-40	6.62E-01	2.08E-01	3.87E-01
270745	9/23/2013 - 9/30/2013	I-131	<5.26E-02	0.00E+00	5.26E-02
		Cs-134	<3.62E-02	0.00E+00	3.62E-02
		Cs-137	<5.75E-02	0.00E+00	5.75E-02
		Be-7	<2.38E-01	0.00E+00	2.38E-01
		K-40	1.42E+00	3.51E-01	5.23E-01
271470	9/30/2013 - 10/7/2013	I-131	<5.96E-02	0.00E+00	5.96E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<4.76E-02	0.00E+00	4.76E-02
		Be-7	<3.72E-01	0.00E+00	3.72E-01
		K-40	1.47E+00	3.00E-01	4.41E-01
272077	10/7/2013 - 10/14/2013	I-131	<4.76E-02	0.00E+00	4.76E-02
		Cs-134	<4.73E-02	0.00E+00	4.73E-02
		Cs-137	<3.54E-02	0.00E+00	3.54E-02
		Be-7	<3.06E-01	0.00E+00	3.06E-01
		K-40	8.99E-01	2.75E-01	4.94E-01
272460	10/14/2013 - 10/21/2013	I-131	<1.46E-02	0.00E+00	1.46E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<3.18E-02	0.00E+00	3.18E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	7.90E-01	1.81E-01	3.12E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272860	10/21/2013 - 10/28/2013	I-131	<3.79E-02	0.00E+00	3.79E-02
		Cs-134	<3.17E-02	0.00E+00	3.17E-02
		Cs-137	<3.44E-02	0.00E+00	3.44E-02
		Be-7	<2.60E-01	0.00E+00	2.60E-01
		K-40	7.48E-01	1.93E-01	1.35E-01
273951	10/28/2013 - 11/4/2013	I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<3.01E-02	0.00E+00	3.01E-02
		Be-7	<2.20E-01	0.00E+00	2.20E-01
		K-40	9.16E-01	2.05E-01	1.24E-01
274398	11/4/2013 - 11/11/2013	I-131	<4.99E-02	0.00E+00	4.99E-02
		Cs-134	<3.47E-02	0.00E+00	3.47E-02
		Cs-137	<4.19E-02	0.00E+00	4.19E-02
		Be-7	<3.04E-01	0.00E+00	3.04E-01
		K-40	6.12E-01	3.77E-01	8.74E-01
274912	11/11/2013 - 11/18/2013	I-131	<4.70E-02	0.00E+00	4.70E-02
		Cs-134	<3.64E-02	0.00E+00	3.64E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<3.15E-01	0.00E+00	3.15E-01
		K-40	8.45E-01	2.26E-01	6.64E-01
276466	11/18/2013 - 11/25/2013	I-131	<3.06E-02	0.00E+00	3.06E-02
		Cs-134	<2.45E-02	0.00E+00	2.45E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	5.81E-01	2.25E-01	3.60E-01
277382	11/25/2013 - 12/2/2013	I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
		K-40	1.31E+00	1.81E-01	6.79E-02
278714	12/2/2013 - 12/9/2013	I-131	<4.33E-02	0.00E+00	4.33E-02
		Cs-134	<4.01E-02	0.00E+00	4.01E-02
		Cs-137	<3.62E-02	0.00E+00	3.62E-02
		Be-7	<3.42E-01	0.00E+00	3.42E-01
		K-40	7.57E-01	2.66E-01	1.65E-01
278987	12/9/2013 - 12/16/2013	I-131	<4.90E-02	0.00E+00	4.90E-02
		Cs-134	<4.21E-02	0.00E+00	4.21E-02
		Cs-137	<3.89E-02	0.00E+00	3.89E-02
		Be-7	<3.94E-01	0.00E+00	3.94E-01
		K-40	5.87E-01	2.55E-01	1.61E-01
279633	12/16/2013 - 12/23/2013	I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<4.94E-02	0.00E+00	4.94E-02
		K-40	7.06E-01	1.89E-01	4.50E-01
280111	12/23/2013 - 12/30/2013	I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<3.25E-02	0.00E+00	3.25E-02
		Cs-137	<3.04E-02	0.00E+00	3.04E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	<1.03E+00	0.00E+00	1.03E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249842	12/31/2012 - 1/7/2013	I-131	<3.78E-02	0.00E+00	3.78E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<3.07E-02	0.00E+00	3.07E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	5.75E-01	1.54E-01	3.05E-01
250664	1/7/2013 - 1/14/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	8.60E-01	1.92E-01	1.16E-01
250812	1/21/2013 - 1/28/2013	I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<7.48E-01	0.00E+00	7.48E-01
251143	1/14/2013 - 1/21/2013	I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	6.16E-01	1.31E-01	2.59E-01
251315	2/4/2013 - 2/11/2013	I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	8.94E-01	1.58E-01	2.96E-01
251620	2/11/2013 - 2/18/2013	I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.50E-01	1.85E-01	2.12E-01
252086	2/18/2013 - 2/25/2013	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.29E-02	0.00E+00	2.29E-02
		Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<7.29E-02	0.00E+00	7.29E-02
		K-40	7.89E-01	1.81E-01	1.12E-01
252715	2/25/2013 - 3/4/2013	I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<2.11E-01	0.00E+00	2.11E-01
		K-40	6.66E-01	1.78E-01	1.29E-01
253095	3/4/2013 - 3/11/2013	I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<3.54E-02	0.00E+00	3.54E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	5.46E-01	2.36E-01	4.61E-01
253898	3/11/2013 - 3/18/2013	I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<3.62E-02	0.00E+00	3.62E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	9.13E-01	1.95E-01	1.12E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
254220	3/18/2013 - 3/25/2013	I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	8.69E-01	1.90E-01	1.12E-01
254755	3/25/2013 - 4/1/2013	I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	8.41E-01	2.16E-01	3.72E-01
255316	4/1/2013 - 4/8/2013	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	1.01E+00	1.60E-01	2.68E-01
255844	4/8/2013 - 4/15/2013	I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	1.15E+00	1.84E-01	7.95E-02
256078	4/15/2013 - 4/22/2013	I-131	<5.56E-02	0.00E+00	5.56E-02
		Cs-134	<3.82E-02	0.00E+00	3.82E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<3.83E-01	0.00E+00	3.83E-01
		K-40	1.09E+00	2.80E-01	5.30E-01
256356	4/22/2013 - 4/29/2013	I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	8.42E-01	1.88E-01	1.14E-01
257146	4/29/2013 - 5/6/2013	I-131	<3.00E-02	0.00E+00	3.00E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.23E-01	1.45E-01	1.09E-01
257302	5/6/2013 - 5/13/2013	I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	4.40E-01	1.31E-01	2.32E-01
257749	5/13/2013 - 5/20/2013	I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<2.81E-02	0.00E+00	2.81E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	1.01E+00	2.02E-01	1.10E-01
257993	5/20/2013 - 5/27/2013	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	4.95E-01	1.38E-01	2.87E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258228	5/27/2013 - 6/3/2013	I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<3.61E-02	0.00E+00	3.61E-02
		Cs-137	<3.98E-02	0.00E+00	3.98E-02
		Be-7	<3.06E-01	0.00E+00	3.06E-01
		K-40	1.01E+00	3.10E-01	7.04E-01
258575	6/3/2013 - 6/10/2013	I-131	<4.67E-02	0.00E+00	4.67E-02
		Cs-134	<4.20E-02	0.00E+00	4.20E-02
		Cs-137	<4.50E-02	0.00E+00	4.50E-02
		Be-7	<4.02E-01	0.00E+00	4.02E-01
		K-40	5.09E-01	2.91E-01	4.28E-01
259051	6/10/2013 - 6/18/2013	I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	1.03E+00	1.55E-01	2.09E-01
259599	6/18/2013 - 6/24/2013	I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<3.51E-02	0.00E+00	3.51E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	<1.03E+00	0.00E+00	1.03E+00
260233	6/24/2013 - 7/1/2013	I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<2.87E-01	0.00E+00	2.87E-01
		K-40	<1.17E+00	0.00E+00	1.17E+00
260693	7/1/2013 - 7/8/2013	I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	6.53E-01	1.63E-01	1.10E-01
261656	7/8/2013 - 7/15/2013	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.73E-02	0.00E+00	2.73E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	9.93E-01	1.63E-01	2.40E-01
262158	7/15/2013 - 7/22/2013	I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	<9.15E-01	0.00E+00	9.15E-01
263164	7/22/2013 - 7/29/2013	I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<3.05E-02	0.00E+00	3.05E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	7.32E-01	1.78E-01	3.04E-01
263391	7/29/2013 - 8/5/2013	I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<5.81E-03	0.00E+00	5.81E-03
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	7.50E-01	2.38E-01	3.79E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
264049	8/5/2013 - 8/12/2013	I-131	<1.80E-02	0.00E+00	1.80E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<6.51E-01	0.00E+00	6.51E-01
265180	8/12/2013 - 8/19/2013	I-131	<5.71E-02	0.00E+00	5.71E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<3.79E-02	0.00E+00	3.79E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
		K-40	<1.24E+00	0.00E+00	1.24E+00
265489	8/19/2013 - 8/26/2013	I-131	<5.73E-02	0.00E+00	5.73E-02
		Cs-134	<3.19E-02	0.00E+00	3.19E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	9.69E-01	2.35E-01	7.05E-01
267175	8/26/2013 - 9/3/2013	I-131	<5.17E-02	0.00E+00	5.17E-02
		Cs-134	<2.57E-02	0.00E+00	2.57E-02
		Cs-137	<3.18E-02	0.00E+00	3.18E-02
		Be-7	<2.81E-01	0.00E+00	2.81E-01
		K-40	6.81E-01	2.29E-01	1.35E-01
267648	9/3/2013 - 9/9/2013	I-131	<4.61E-02	0.00E+00	4.61E-02
		Cs-134	<4.59E-02	0.00E+00	4.59E-02
		Cs-137	<4.25E-02	0.00E+00	4.25E-02
		Be-7	<3.40E-01	0.00E+00	3.40E-01
		K-40	9.98E-01	2.58E-01	7.83E-01
268484	9/9/2013 - 9/16/2013	I-131	<4.40E-02	0.00E+00	4.40E-02
		Cs-134	<3.62E-02	0.00E+00	3.62E-02
		Cs-137	<3.76E-02	0.00E+00	3.76E-02
		Be-7	<2.72E-01	0.00E+00	2.72E-01
		K-40	<1.38E+00	0.00E+00	1.38E+00
269644	9/16/2013 - 9/23/2013	I-131	<3.10E-02	0.00E+00	3.10E-02
		Cs-134	<3.88E-02	0.00E+00	3.88E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<2.92E-01	0.00E+00	2.92E-01
		K-40	<1.16E+00	0.00E+00	1.16E+00
270746	9/23/2013 - 9/30/2013	I-131	<3.97E-02	0.00E+00	3.97E-02
		Cs-134	<3.78E-02	0.00E+00	3.78E-02
		Cs-137	<4.08E-02	0.00E+00	4.08E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	1.09E+00	2.51E-01	4.17E-01
271471	9/30/2013 - 10/7/2013	I-131	<4.75E-02	0.00E+00	4.75E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<3.36E-02	0.00E+00	3.36E-02
		Be-7	<2.95E-01	0.00E+00	2.95E-01
		K-40	7.95E-01	2.12E-01	5.96E-01
272078	10/7/2013 - 10/14/2013	I-131	<4.41E-02	0.00E+00	4.41E-02
		Cs-134	<3.44E-02	0.00E+00	3.44E-02
		Cs-137	<3.27E-02	0.00E+00	3.27E-02
		Be-7	<3.44E-01	0.00E+00	3.44E-01
		K-40	7.86E-01	2.66E-01	6.21E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272461	10/14/2013 - 10/21/2013	I-131	<3.74E-02	0.00E+00	3.74E-02
		Cs-134	<3.73E-02	0.00E+00	3.73E-02
		Cs-137	<2.92E-02	0.00E+00	2.92E-02
		Be-7	<2.81E-01	0.00E+00	2.81E-01
		K-40	1.18E+00	2.58E-01	4.09E-01
272861	10/21/2013 - 10/28/2013	I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<6.89E-02	0.00E+00	6.89E-02
		K-40	<7.90E-01	0.00E+00	7.90E-01
273952	10/28/2013 - 11/4/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<3.15E-02	0.00E+00	3.15E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	9.23E-01	2.06E-01	1.25E-01
274399	11/4/2013 - 11/11/2013	I-131	<5.09E-02	0.00E+00	5.09E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<4.43E-02	0.00E+00	4.43E-02
		Be-7	<3.01E-01	0.00E+00	3.01E-01
		K-40	7.47E-01	2.57E-01	8.15E-01
274913	11/11/2013 - 11/18/2013	I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<4.19E-02	0.00E+00	4.19E-02
		Be-7	<3.19E-01	0.00E+00	3.19E-01
		K-40	8.37E-01	2.16E-01	4.01E-01
276467	11/18/2013 - 11/25/2013	I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	9.32E-01	9.45E-02	1.78E-01
277383	11/25/2013 - 12/2/2013	I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	7.10E-01	1.72E-01	3.00E-01
278715	12/2/2013 - 12/9/2013	I-131	<3.22E-02	0.00E+00	3.22E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<3.73E-02	0.00E+00	3.73E-02
		Be-7	<3.04E-01	0.00E+00	3.04E-01
		K-40	8.96E-01	2.71E-01	5.31E-01
278988	12/9/2013 - 12/16/2013	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<8.76E-02	0.00E+00	8.76E-02
		K-40	6.55E-01	1.55E-01	6.81E-02
279634	12/16/2013 - 12/23/2013	I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	<6.76E-01	0.00E+00	6.76E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
280112	12/23/2013 - 12/30/2013	I-131	<4.32E-02	0.00E+00	4.32E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<4.25E-02	0.00E+00	4.25E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	1.16E+00	2.54E-01	1.50E-01

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249843	12/31/2012 - 1/7/2013	I-131	<5.79E-02	0.00E+00	5.79E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<2.81E-02	0.00E+00	2.81E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	7.77E-01	1.62E-01	3.05E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250665	1/7/2013 - 1/14/2013	I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	5.66E-01	1.57E-01	1.18E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250814	1/21/2013 - 1/28/2013	I-131	<4.07E-02	0.00E+00	4.07E-02
		Cs-134	<3.49E-02	0.00E+00	3.49E-02
		Cs-137	<3.42E-02	0.00E+00	3.42E-02
		Be-7	<2.67E-01	0.00E+00	2.67E-01
		K-40	7.72E-01	1.93E-01	4.33E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251144	1/14/2013 - 1/21/2013	I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<4.13E-02	0.00E+00	4.13E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<2.81E-01	0.00E+00	2.81E-01
		K-40	<1.06E+00	0.00E+00	1.06E+00

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251298	1/28/2013 - 2/4/2013	I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<2.55E-02	0.00E+00	2.55E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	9.37E-01	1.63E-01	2.98E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251316	2/4/2013 - 2/11/2013	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<3.07E-02	0.00E+00	3.07E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	1.08E+00	1.81E-01	2.22E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251621	2/11/2013 - 2/18/2013	I-131	<3.30E-02	0.00E+00	3.30E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<3.32E-02	0.00E+00	3.32E-02
		Be-7	<2.66E-01	0.00E+00	2.66E-01
		K-40	8.08E-01	2.02E-01	1.36E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252087	2/18/2013 - 2/25/2013	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	7.66E-01	1.50E-01	2.46E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252716	2/25/2013 - 3/4/2013	I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252716	2/25/2013 - 3/4/2013	K-40	5.78E-01	2.26E-01	2.64E-01
253096	3/4/2013 - 3/11/2013	I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.79E-02	0.00E+00	2.79E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	7.84E-01	2.28E-01	2.64E-01
253899	3/11/2013 - 3/18/2013	I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.80E-02	0.00E+00	2.80E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	6.99E-01	1.46E-01	2.22E-01
254221	3/18/2013 - 3/25/2013	I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<3.57E-02	0.00E+00	3.57E-02
		Be-7	<2.03E-01	0.00E+00	2.03E-01
		K-40	8.75E-01	1.62E-01	2.83E-01
254756	3/25/2013 - 4/1/2013	I-131	<4.64E-02	0.00E+00	4.64E-02
		Cs-134	<2.64E-02	0.00E+00	2.64E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	8.07E-01	2.02E-01	3.67E-01
255317	4/1/2013 - 4/8/2013	I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.43E-02	0.00E+00	2.43E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	9.53E-01	1.71E-01	2.29E-01
255845	4/8/2013 - 4/15/2013	I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	6.77E-01	1.64E-01	3.49E-01
256079	4/15/2013 - 4/22/2013	I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.82E-02	0.00E+00	2.82E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	1.01E+00	2.08E-01	3.06E-01
256357	4/22/2013 - 4/29/2013	I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<2.97E-02	0.00E+00	2.97E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	8.98E-01	2.03E-01	2.84E-01
257147	4/29/2013 - 5/6/2013	I-131	<3.85E-02	0.00E+00	3.85E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<2.41E-01	0.00E+00	2.41E-01
		K-40	8.73E-01	2.58E-01	4.50E-01
257303	5/6/2013 - 5/13/2013	I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.92E-02	0.00E+00	2.92E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257303	5/6/2013 - 5/13/2013	Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	6.52E-01	2.20E-01	5.40E-01
257750	5/13/2013 - 5/20/2013	I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<2.30E-01	0.00E+00	2.30E-01
		K-40	3.42E-01	1.96E-01	1.23E-01
257994	5/20/2013 - 5/27/2013	I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	9.71E-01	1.77E-01	8.75E-02
258229	5/27/2013 - 6/3/2013	I-131	<4.94E-02	0.00E+00	4.94E-02
		Cs-134	<4.70E-02	0.00E+00	4.70E-02
		Cs-137	<3.46E-02	0.00E+00	3.46E-02
		Be-7	<3.24E-01	0.00E+00	3.24E-01
		K-40	1.10E+00	2.40E-01	6.51E-01
258576	6/3/2013 - 6/10/2013	I-131	<5.21E-02	0.00E+00	5.21E-02
		Cs-134	<3.62E-02	0.00E+00	3.62E-02
		Cs-137	<5.69E-02	0.00E+00	5.69E-02
		Be-7	<2.83E-01	0.00E+00	2.83E-01
		K-40	1.07E+00	3.11E-01	7.88E-01
259052	6/10/2013 - 6/18/2013	I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<5.62E-01	0.00E+00	5.62E-01
259600	6/18/2013 - 6/24/2013	I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<4.99E-02	0.00E+00	4.99E-02
		Cs-137	<5.90E-02	0.00E+00	5.90E-02
		Be-7	<4.23E-01	0.00E+00	4.23E-01
		K-40	1.27E+00	3.51E-01	5.04E-01
260234	6/24/2013 - 7/1/2013	I-131	<3.97E-02	0.00E+00	3.97E-02
		Cs-134	<3.96E-02	0.00E+00	3.96E-02
		Cs-137	<4.29E-02	0.00E+00	4.29E-02
		Be-7	<3.15E-01	0.00E+00	3.15E-01
		K-40	8.44E-01	2.34E-01	7.23E-01
260694	7/1/2013 - 7/8/2013	I-131	<3.54E-02	0.00E+00	3.54E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	1.26E-01	7.59E-02	3.18E-02
		K-40	8.67E-01	2.24E-01	3.61E-01
261657	7/8/2013 - 7/15/2013	I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	8.57E-01	2.47E-01	3.21E-01
262159	7/15/2013 - 7/22/2013	I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
262159	7/15/2013 - 7/22/2013	Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	6.60E-01	1.79E-01	2.26E-01
263165	7/22/2013 - 7/29/2013	I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	6.59E-01	1.66E-01	2.58E-01
263392	7/29/2013 - 8/5/2013	I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<3.13E-02	0.00E+00	3.13E-02
		Be-7	<2.45E-01	0.00E+00	2.45E-01
		K-40	9.66E-01	2.16E-01	1.31E-01
264050	8/5/2013 - 8/12/2013	I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	8.93E-01	1.98E-01	2.77E-01
265181	8/12/2013 - 8/19/2013	I-131	<5.38E-02	0.00E+00	5.38E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<3.53E-02	0.00E+00	3.53E-02
		Be-7	<3.14E-01	0.00E+00	3.14E-01
		K-40	<1.10E+00	0.00E+00	1.10E+00
265490	8/19/2013 - 8/26/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	7.30E-01	1.89E-01	4.31E-01
267176	8/26/2013 - 9/3/2013	I-131	<4.26E-02	0.00E+00	4.26E-02
		Cs-134	<4.09E-02	0.00E+00	4.09E-02
		Cs-137	<3.95E-02	0.00E+00	3.95E-02
		Be-7	<3.50E-01	0.00E+00	3.50E-01
		K-40	7.33E-01	2.03E-01	4.25E-01
267649	9/3/2013 - 9/9/2013	I-131	<4.90E-02	0.00E+00	4.90E-02
		Cs-134	<4.99E-02	0.00E+00	4.99E-02
		Cs-137	<4.99E-02	0.00E+00	4.99E-02
		Be-7	<2.95E-01	0.00E+00	2.95E-01
		K-40	1.58E+00	3.46E-01	5.46E-01
268485	9/9/2013 - 9/16/2013	I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<3.88E-02	0.00E+00	3.88E-02
		Cs-137	<4.01E-02	0.00E+00	4.01E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	1.16E+00	2.72E-01	1.74E-01
269645	9/16/2013 - 9/23/2013	I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	1.20E+00	2.31E-01	3.79E-01
270747	9/23/2013 - 9/30/2013	I-131	<6.01E-02	0.00E+00	6.01E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
270747	9/23/2013 - 9/30/2013	Cs-134	<4.01E-02	0.00E+00	4.01E-02
		Cs-137	<4.58E-02	0.00E+00	4.58E-02
		Be-7	<3.84E-01	0.00E+00	3.84E-01
		K-40	1.20E+00	2.76E-01	1.71E-01
271472	9/30/2013 - 10/7/2013	I-131	<5.56E-02	0.00E+00	5.56E-02
		Cs-134	<3.38E-02	0.00E+00	3.38E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<3.28E-01	0.00E+00	3.28E-01
		K-40	<1.34E+00	0.00E+00	1.34E+00
272079	10/7/2013 - 10/14/2013	I-131	<6.46E-02	0.00E+00	6.46E-02
		Cs-134	<4.26E-02	0.00E+00	4.26E-02
		Cs-137	<4.46E-02	0.00E+00	4.46E-02
		Be-7	<3.00E-01	0.00E+00	3.00E-01
		K-40	8.89E-01	2.80E-01	7.32E-01
272462	10/14/2013 - 10/21/2013	I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	1.38E+00	1.96E-01	2.95E-01
272862	10/21/2013 - 10/28/2013	I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	9.84E-01	2.05E-01	7.91E-02
273953	10/28/2013 - 11/4/2013	I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	1.48E+00	1.99E-01	1.95E-01
274400	11/4/2013 - 11/11/2013	I-131	<4.30E-02	0.00E+00	4.30E-02
		Cs-134	<4.50E-02	0.00E+00	4.50E-02
		Cs-137	<3.90E-02	0.00E+00	3.90E-02
		Be-7	<3.55E-01	0.00E+00	3.55E-01
		K-40	8.38E-01	2.32E-01	4.63E-01
274914	11/11/2013 - 11/18/2013	I-131	<6.02E-02	0.00E+00	6.02E-02
		Cs-134	<3.39E-02	0.00E+00	3.39E-02
		Cs-137	<4.63E-02	0.00E+00	4.63E-02
		Be-7	<3.53E-01	0.00E+00	3.53E-01
		K-40	1.28E+00	2.87E-01	5.80E-01
276468	11/18/2013 - 11/25/2013	I-131	<3.88E-02	0.00E+00	3.88E-02
		Cs-134	<3.06E-02	0.00E+00	3.06E-02
		Cs-137	<4.34E-02	0.00E+00	4.34E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	3.45E-01	1.68E-01	3.54E-01
277384	11/25/2013 - 12/2/2013	I-131	<3.15E-02	0.00E+00	3.15E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
		K-40	1.13E+00	2.04E-01	2.59E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

---

Sample ID:	278716	Sample Dates:	12/2/2013 - 12/9/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<4.79E-02	0.00E+00	4.79E-02
				Cs-134	<2.98E-02	0.00E+00	2.98E-02
				Cs-137	<5.08E-02	0.00E+00	5.08E-02
				Be-7	<3.72E-01	0.00E+00	3.72E-01
				K-40	7.65E-01	3.49E-01	6.17E-01

---

Sample ID:	278989	Sample Dates:	12/9/2013 - 12/16/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.71E-02	0.00E+00	2.71E-02
				Cs-134	<1.94E-02	0.00E+00	1.94E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	1.36E+00	1.98E-01	2.74E-01

---

Sample ID:	279635	Sample Dates:	12/16/2013 - 12/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.34E-02	0.00E+00	3.34E-02
				Cs-134	<2.09E-02	0.00E+00	2.09E-02
				Cs-137	<3.19E-02	0.00E+00	3.19E-02
				Be-7	<2.28E-01	0.00E+00	2.28E-01
				K-40	8.87E-01	2.09E-01	1.33E-01

---

Sample ID:	280113	Sample Dates:	12/23/2013 - 12/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<2.11E-02	0.00E+00	2.11E-02
				Cs-137	<2.14E-02	0.00E+00	2.14E-02
				Be-7	<1.49E-01	0.00E+00	1.49E-01
				K-40	1.27E+00	1.84E-01	2.42E-01

---

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

---

Sample ID:	249844	Sample Dates:	12/31/2012 - 1/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<4.66E-02	0.00E+00	4.66E-02
				Cs-134	<2.66E-02	0.00E+00	2.66E-02
				Cs-137	<1.89E-02	0.00E+00	1.89E-02
				Be-7	<1.71E-01	0.00E+00	1.71E-01
				K-40	5.59E-01	1.61E-01	1.26E-01

---

Sample ID:	250666	Sample Dates:	1/7/2013 - 1/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.86E-02	0.00E+00	2.86E-02
				Cs-134	<3.49E-02	0.00E+00	3.49E-02
				Cs-137	<3.80E-02	0.00E+00	3.80E-02
				Be-7	<2.50E-01	0.00E+00	2.50E-01
				K-40	5.51E-01	2.12E-01	1.35E-01

---

Sample ID:	250811	Sample Dates:	1/21/2013 - 1/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.71E-02	0.00E+00	3.71E-02
				Cs-134	<2.84E-02	0.00E+00	2.84E-02
				Cs-137	<3.38E-02	0.00E+00	3.38E-02
				Be-7	<2.10E-01	0.00E+00	2.10E-01
				K-40	9.36E-01	2.21E-01	1.40E-01

---

Sample ID:	251145	Sample Dates:	1/14/2013 - 1/21/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.83E-02	0.00E+00	2.83E-02
				Cs-134	<2.81E-02	0.00E+00	2.81E-02
				Cs-137	<2.10E-02	0.00E+00	2.10E-02
				Be-7	<1.60E-01	0.00E+00	1.60E-01
				K-40	6.97E-01	1.80E-01	1.26E-01

---

Sample ID:	251299	Sample Dates:	1/28/2013 - 2/4/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.76E-02	0.00E+00	3.76E-02
				Cs-134	<2.05E-02	0.00E+00	2.05E-02
				Cs-137	<3.16E-02	0.00E+00	3.16E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	4.27E-01	1.42E-01	1.28E-01

---

Sample ID:	251317	Sample Dates:	2/4/2013 - 2/11/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<1.92E-02	0.00E+00	1.92E-02
				Cs-134	<1.83E-02	0.00E+00	1.83E-02
				Cs-137	<2.81E-02	0.00E+00	2.81E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01

---



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251317	2/4/2013 - 2/11/2013	K-40	7.52E-01	1.82E-01	1.20E-01
251622	2/11/2013 - 2/18/2013	I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	7.12E-01	2.25E-01	3.28E-01
252088	2/18/2013 - 2/25/2013	I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	<9.05E-01	0.00E+00	9.05E-01
252717	2/25/2013 - 3/4/2013	I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<2.47E-02	0.00E+00	2.47E-02
		Cs-137	<3.07E-02	0.00E+00	3.07E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	9.13E-01	1.61E-01	2.99E-01
253097	3/4/2013 - 3/11/2013	I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.78E-02	0.00E+00	2.78E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	1.15E+00	1.84E-01	3.42E-01
253900	3/11/2013 - 3/18/2013	I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<7.44E-01	0.00E+00	7.44E-01
254222	3/18/2013 - 3/25/2013	I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	1.05E+00	1.74E-01	2.47E-01
254757	3/25/2013 - 4/1/2013	I-131	<3.49E-02	0.00E+00	3.49E-02
		Cs-134	<2.59E-02	0.00E+00	2.59E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<2.50E-01	0.00E+00	2.50E-01
		K-40	7.10E-01	1.77E-01	1.20E-01
255318	4/1/2013 - 4/8/2013	I-131	<3.09E-02	0.00E+00	3.09E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	7.07E-01	1.72E-01	3.20E-01
255846	4/8/2013 - 4/15/2013	I-131	<4.29E-02	0.00E+00	4.29E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<3.44E-02	0.00E+00	3.44E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	4.51E-01	1.81E-01	5.02E-01
256080	4/15/2013 - 4/22/2013	I-131	<3.45E-02	0.00E+00	3.45E-02
		Cs-134	<2.80E-02	0.00E+00	2.80E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256080	4/15/2013 - 4/22/2013	Be-7	1.52E-01	9.71E-02	1.58E-01
		K-40	1.01E+00	1.79E-01	2.88E-01
256358	4/22/2013 - 4/29/2013	I-131	<6.07E-02	0.00E+00	6.07E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	1.02E+00	1.55E-01	6.39E-02
257148	4/29/2013 - 5/6/2013	I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	6.17E-01	1.62E-01	2.52E-01
257317	5/6/2013 - 5/13/2013	I-131	<3.38E-02	0.00E+00	3.38E-02
		Cs-134	<2.93E-02	0.00E+00	2.93E-02
		Cs-137	<3.22E-02	0.00E+00	3.22E-02
		Be-7	1.23E-01	4.66E-02	2.10E-01
		K-40	7.30E-01	2.46E-01	5.25E-01
257764	5/13/2013 - 5/20/2013	I-131	<3.13E-02	0.00E+00	3.13E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.68E-02	0.00E+00	2.68E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	1.25E+00	1.91E-01	2.15E-01
258008	5/20/2013 - 5/27/2013	I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	9.13E-01	1.61E-01	2.56E-01
258243	5/27/2013 - 6/3/2013	I-131	<3.44E-02	0.00E+00	3.44E-02
		Cs-134	<4.04E-02	0.00E+00	4.04E-02
		Cs-137	<4.07E-02	0.00E+00	4.07E-02
		Be-7	<3.82E-01	0.00E+00	3.82E-01
		K-40	1.04E+00	2.45E-01	5.54E-01
258590	6/3/2013 - 6/10/2013	I-131	<5.81E-02	0.00E+00	5.81E-02
		Cs-134	<3.57E-02	0.00E+00	3.57E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<3.18E-01	0.00E+00	3.18E-01
		K-40	9.97E-01	2.42E-01	7.28E-01
259053	6/10/2013 - 6/18/2013	I-131	<4.41E-02	0.00E+00	4.41E-02
		Cs-134	<3.28E-02	0.00E+00	3.28E-02
		Cs-137	<3.65E-02	0.00E+00	3.65E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	<1.10E+00	0.00E+00	1.10E+00
259601	6/18/2013 - 6/24/2013	I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<3.20E-02	0.00E+00	3.20E-02
		Cs-137	<3.87E-02	0.00E+00	3.87E-02
		Be-7	<2.82E-01	0.00E+00	2.82E-01
		K-40	<1.08E+00	0.00E+00	1.08E+00
260235	6/24/2013 - 7/1/2013	I-131	<3.65E-02	0.00E+00	3.65E-02
		Cs-134	<3.28E-02	0.00E+00	3.28E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260235	6/24/2013 - 7/1/2013	Cs-137	<3.02E-02	0.00E+00	3.02E-02
		Be-7	<3.69E-01	0.00E+00	3.69E-01
		K-40	8.27E-01	2.21E-01	4.47E-01
260695	7/1/2013 - 7/8/2013	I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	5.68E-01	1.27E-01	7.68E-02
261658	7/8/2013 - 7/15/2013	I-131	<4.04E-02	0.00E+00	4.04E-02
		Cs-134	<3.17E-02	0.00E+00	3.17E-02
		Cs-137	<3.89E-02	0.00E+00	3.89E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	8.86E-01	2.09E-01	1.33E-01
262160	7/15/2013 - 7/22/2013	I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.89E-02	0.00E+00	2.89E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	7.08E-01	2.21E-01	3.82E-01
263166	7/22/2013 - 7/29/2013	I-131	<1.47E-02	0.00E+00	1.47E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	9.26E-01	1.98E-01	1.14E-01
263393	7/29/2013 - 8/5/2013	I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	1.01E+00	1.80E-01	3.21E-01
264051	8/5/2013 - 8/12/2013	I-131	<3.21E-02	0.00E+00	3.21E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	<7.97E-01	0.00E+00	7.97E-01
265182	8/12/2013 - 8/19/2013	I-131	<3.91E-02	0.00E+00	3.91E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<4.32E-02	0.00E+00	4.32E-02
		Be-7	<3.24E-01	0.00E+00	3.24E-01
		K-40	4.90E-01	2.75E-01	8.08E-01
265491	8/19/2013 - 8/26/2013	I-131	<3.86E-02	0.00E+00	3.86E-02
		Cs-134	<3.66E-02	0.00E+00	3.66E-02
		Cs-137	<5.38E-02	0.00E+00	5.38E-02
		Be-7	<3.90E-01	0.00E+00	3.90E-01
		K-40	<1.05E+00	0.00E+00	1.05E+00
267177	8/26/2013 - 9/3/2013	I-131	<4.49E-02	0.00E+00	4.49E-02
		Cs-134	<3.32E-02	0.00E+00	3.32E-02
		Cs-137	<4.39E-02	0.00E+00	4.39E-02
		Be-7	<2.72E-01	0.00E+00	2.72E-01
		K-40	8.71E-01	2.11E-01	1.38E-01
267650	9/3/2013 - 9/9/2013	I-131	<4.60E-02	0.00E+00	4.60E-02





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267650	9/3/2013 - 9/9/2013	Cs-134	<4.71E-02	0.00E+00	4.71E-02
		Cs-137	<4.03E-02	0.00E+00	4.03E-02
		Be-7	<3.04E-01	0.00E+00	3.04E-01
		K-40	4.79E-01	3.04E-01	6.62E-01
268486	9/9/2013 - 9/16/2013	I-131	<3.62E-02	0.00E+00	3.62E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<4.72E-02	0.00E+00	4.72E-02
		Be-7	<3.01E-01	0.00E+00	3.01E-01
		K-40	<1.32E+00	0.00E+00	1.32E+00
269646	9/16/2013 - 9/23/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	8.98E-01	1.56E-01	2.85E-01
270748	9/23/2013 - 9/30/2013	I-131	<4.15E-02	0.00E+00	4.15E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<4.40E-02	0.00E+00	4.40E-02
		Be-7	<2.76E-01	0.00E+00	2.76E-01
		K-40	1.09E+00	2.51E-01	4.97E-01
271473	9/30/2013 - 10/7/2013	I-131	<4.25E-02	0.00E+00	4.25E-02
		Cs-134	<3.29E-02	0.00E+00	3.29E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	8.02E-01	2.70E-01	7.50E-01
272080	10/7/2013 - 10/14/2013	I-131	<5.80E-02	0.00E+00	5.80E-02
		Cs-134	<3.90E-02	0.00E+00	3.90E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<3.12E-01	0.00E+00	3.12E-01
		K-40	9.43E-01	2.86E-01	5.15E-01
272463	10/14/2013 - 10/21/2013	I-131	<3.31E-02	0.00E+00	3.31E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<2.31E-01	0.00E+00	2.31E-01
		K-40	<1.07E+00	0.00E+00	1.07E+00
272863	10/21/2013 - 10/28/2013	I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	1.08E+00	1.89E-01	2.23E-01
273954	10/28/2013 - 11/4/2013	I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.63E-02	0.00E+00	2.63E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	4.97E-01	1.98E-01	1.07E-01
274401	11/4/2013 - 11/11/2013	I-131	<4.92E-02	0.00E+00	4.92E-02
		Cs-134	<4.15E-02	0.00E+00	4.15E-02
		Cs-137	<3.86E-02	0.00E+00	3.86E-02
		Be-7	<2.81E-01	0.00E+00	2.81E-01
		K-40	<1.37E+00	0.00E+00	1.37E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	274915	Sample Dates:	11/11/2013 - 11/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<5.09E-02	0.00E+00	5.09E-02
				Cs-134	<4.29E-02	0.00E+00	4.29E-02
				Cs-137	<3.88E-02	0.00E+00	3.88E-02
				Be-7	<2.09E-01	0.00E+00	2.09E-01
				K-40	<1.09E+00	0.00E+00	1.09E+00

Sample ID:	276469	Sample Dates:	11/18/2013 - 11/25/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.26E-02	0.00E+00	2.26E-02
				Cs-134	<1.62E-02	0.00E+00	1.62E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.64E-01	0.00E+00	1.64E-01
				K-40	1.17E+00	1.77E-01	2.38E-01

Sample ID:	277385	Sample Dates:	11/25/2013 - 12/2/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.72E-02	0.00E+00	2.72E-02
				Cs-134	<1.96E-02	0.00E+00	1.96E-02
				Cs-137	<3.26E-02	0.00E+00	3.26E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	7.09E-01	1.67E-01	2.91E-01

Sample ID:	278717	Sample Dates:	12/2/2013 - 12/9/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.50E-02	0.00E+00	3.50E-02
				Cs-134	<2.13E-02	0.00E+00	2.13E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<2.89E-01	0.00E+00	2.89E-01
				K-40	<1.12E+00	0.00E+00	1.12E+00

Sample ID:	278990	Sample Dates:	12/9/2013 - 12/16/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<6.60E-02	0.00E+00	6.60E-02
				Cs-134	<3.92E-03	0.00E+00	3.92E-03
				Cs-137	<4.47E-03	0.00E+00	4.47E-03
				Be-7	<4.74E-02	0.00E+00	4.74E-02
				K-40	1.06E+00	5.37E-02	4.44E-02

Sample ID:	279636	Sample Dates:	12/16/2013 - 12/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.06E-02	0.00E+00	3.06E-02
				Cs-134	<2.71E-02	0.00E+00	2.71E-02
				Cs-137	<2.94E-02	0.00E+00	2.94E-02
				Be-7	<2.23E-01	0.00E+00	2.23E-01
				K-40	<7.66E-01	0.00E+00	7.66E-01

Sample ID:	280114	Sample Dates:	12/23/2013 - 12/30/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<2.97E-02	0.00E+00	2.97E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<2.13E-02	0.00E+00	2.13E-02
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	9.09E-01	2.13E-01	2.22E-01

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	249845	Sample Dates:	12/31/2012 - 1/7/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.58E-02	0.00E+00	3.58E-02
				Cs-134	<1.94E-02	0.00E+00	1.94E-02
				Cs-137	<2.41E-02	0.00E+00	2.41E-02
				Be-7	<1.73E-01	0.00E+00	1.73E-01
				K-40	1.02E+00	1.63E-01	7.06E-02

Sample ID:	250667	Sample Dates:	1/7/2013 - 1/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<3.73E-02	0.00E+00	3.73E-02
				Cs-134	<2.59E-02	0.00E+00	2.59E-02
				Cs-137	<3.08E-02	0.00E+00	3.08E-02
				Be-7	<1.55E-01	0.00E+00	1.55E-01
				K-40	8.05E-01	1.95E-01	1.28E-01

Sample ID:	250813	Sample Dates:	1/21/2013 - 1/28/2013	Nuclide	Activity	1 Sigma Error	LLD
				I-131	<1.71E-02	0.00E+00	1.71E-02
				Cs-134	<1.27E-02	0.00E+00	1.27E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250813	1/21/2013 - 1/28/2013	K-40	6.31E-01	1.63E-01	3.09E-01
251146	1/14/2013 - 1/21/2013	I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<3.23E-02	0.00E+00	3.23E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<2.69E-01	0.00E+00	2.69E-01
		K-40	<9.12E-01	0.00E+00	9.12E-01
251300	1/28/2013 - 2/4/2013	I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<7.60E-01	0.00E+00	7.60E-01
251318	2/4/2013 - 2/11/2013	I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<3.21E-02	0.00E+00	3.21E-02
		Be-7	<2.46E-01	0.00E+00	2.46E-01
		K-40	<8.25E-01	0.00E+00	8.25E-01
251623	2/11/2013 - 2/18/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<3.04E-02	0.00E+00	3.04E-02
		Cs-137	<3.38E-02	0.00E+00	3.38E-02
		Be-7	<1.82E-01	0.00E+00	1.82E-01
		K-40	1.00E+00	2.18E-01	1.29E-01
252089	2/18/2013 - 2/25/2013	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<2.85E-02	0.00E+00	2.85E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	1.30E+00	2.31E-01	3.46E-01
252718	2/25/2013 - 3/4/2013	I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<2.01E-01	0.00E+00	2.01E-01
		K-40	6.44E-01	1.66E-01	3.66E-01
253098	3/4/2013 - 3/11/2013	I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	<8.37E-01	0.00E+00	8.37E-01
253901	3/11/2013 - 3/18/2013	I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<4.04E-02	0.00E+00	4.04E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	<8.30E-01	0.00E+00	8.30E-01
254223	3/18/2013 - 3/25/2013	I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<2.09E-01	0.00E+00	2.09E-01
		K-40	5.57E-01	1.90E-01	3.95E-01
254758	3/25/2013 - 4/1/2013	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<3.84E-02	0.00E+00	3.84E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
254758	3/25/2013 - 4/1/2013	Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	8.35E-01	1.92E-01	3.18E-01
255319	4/1/2013 - 4/8/2013	I-131	<3.03E-02	0.00E+00	3.03E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	6.59E-01	1.70E-01	1.19E-01
255847	4/8/2013 - 4/15/2013	I-131	<4.91E-02	0.00E+00	4.91E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<2.90E-02	0.00E+00	2.90E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	7.90E-01	1.83E-01	3.37E-01
256081	4/15/2013 - 4/22/2013	I-131	<3.74E-02	0.00E+00	3.74E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<2.67E-01	0.00E+00	2.67E-01
		K-40	5.73E-01	2.34E-01	5.28E-01
256359	4/22/2013 - 4/29/2013	I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	1.09E+00	1.73E-01	2.84E-01
257149	4/29/2013 - 5/6/2013	I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<2.75E-02	0.00E+00	2.75E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	7.86E-01	1.91E-01	1.25E-01
257304	5/6/2013 - 5/13/2013	I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	7.07E-01	1.82E-01	1.27E-01
257751	5/13/2013 - 5/20/2013	I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	7.61E-01	1.49E-01	2.13E-01
257995	5/20/2013 - 5/27/2013	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	8.91E-01	1.63E-01	8.03E-02
258230	5/27/2013 - 6/3/2013	I-131	<4.51E-02	0.00E+00	4.51E-02
		Cs-134	<4.51E-02	0.00E+00	4.51E-02
		Cs-137	<4.23E-02	0.00E+00	4.23E-02
		Be-7	<2.87E-01	0.00E+00	2.87E-01
		K-40	1.02E+00	2.48E-01	6.97E-01
258577	6/3/2013 - 6/10/2013	I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<4.00E-02	0.00E+00	4.00E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258577	6/3/2013 - 6/10/2013	Cs-137	<5.58E-02	0.00E+00	5.58E-02
		Be-7	<2.94E-01	0.00E+00	2.94E-01
		K-40	1.28E+00	2.79E-01	4.60E-01
259054	6/10/2013 - 6/18/2013	I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<4.31E-02	0.00E+00	4.31E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	7.09E-01	1.90E-01	4.56E-01
259602	6/18/2013 - 6/24/2013	I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	1.63E+00	2.36E-01	2.83E-01
260236	6/24/2013 - 7/1/2013	I-131	<4.83E-02	0.00E+00	4.83E-02
		Cs-134	<3.81E-02	0.00E+00	3.81E-02
		Cs-137	<2.70E-02	0.00E+00	2.70E-02
		Be-7	<2.85E-01	0.00E+00	2.85E-01
		K-40	<1.08E+00	0.00E+00	1.08E+00
260696	7/1/2013 - 7/8/2013	I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<2.69E-02	0.00E+00	2.69E-02
		Be-7	<2.28E-01	0.00E+00	2.28E-01
		K-40	8.71E-01	1.95E-01	3.68E-01
261659	7/8/2013 - 7/15/2013	I-131	<2.89E-02	0.00E+00	2.89E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<2.81E-02	0.00E+00	2.81E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	1.04E+00	2.12E-01	3.22E-01
262161	7/15/2013 - 7/22/2013	I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	1.15E+00	1.75E-01	7.20E-02
263167	7/22/2013 - 7/29/2013	I-131	<5.12E-02	0.00E+00	5.12E-02
		Cs-134	<3.42E-02	0.00E+00	3.42E-02
		Cs-137	<3.12E-02	0.00E+00	3.12E-02
		Be-7	<2.96E-01	0.00E+00	2.96E-01
		K-40	8.39E-01	2.88E-01	5.84E-01
263394	7/29/2013 - 8/5/2013	I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	7.83E-01	1.83E-01	2.12E-01
264052	8/5/2013 - 8/12/2013	I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	6.32E-01	1.62E-01	7.63E-02
265183	8/12/2013 - 8/19/2013	I-131	<5.37E-02	0.00E+00	5.37E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265183	8/12/2013 - 8/19/2013	Cs-134	<3.47E-02	0.00E+00	3.47E-02
		Cs-137	<3.78E-02	0.00E+00	3.78E-02
		Be-7	<2.56E-01	0.00E+00	2.56E-01
		K-40	5.35E-01	2.67E-01	7.13E-01
265492	8/19/2013 - 8/26/2013	I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	8.90E-01	2.52E-01	4.54E-01
267178	8/26/2013 - 9/3/2013	I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<2.92E-01	0.00E+00	2.92E-01
		K-40	1.06E+00	2.37E-01	4.73E-01
267651	9/3/2013 - 9/9/2013	I-131	<6.52E-02	0.00E+00	6.52E-02
		Cs-134	<4.48E-02	0.00E+00	4.48E-02
		Cs-137	<5.41E-02	0.00E+00	5.41E-02
		Be-7	<3.57E-01	0.00E+00	3.57E-01
		K-40	1.13E+00	2.83E-01	6.46E-01
268487	9/9/2013 - 9/16/2013	I-131	<4.61E-02	0.00E+00	4.61E-02
		Cs-134	<2.61E-02	0.00E+00	2.61E-02
		Cs-137	<3.08E-02	0.00E+00	3.08E-02
		Be-7	<3.11E-01	0.00E+00	3.11E-01
		K-40	8.45E-01	2.26E-01	5.41E-01
269647	9/16/2013 - 9/23/2013	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<2.67E-02	0.00E+00	2.67E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
		K-40	1.07E+00	2.24E-01	3.34E-01
270749	9/23/2013 - 9/30/2013	I-131	<4.89E-02	0.00E+00	4.89E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<4.62E-02	0.00E+00	4.62E-02
		Be-7	<3.35E-01	0.00E+00	3.35E-01
		K-40	1.13E+00	2.59E-01	4.30E-01
271474	9/30/2013 - 10/7/2013	I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<4.46E-02	0.00E+00	4.46E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<3.54E-01	0.00E+00	3.54E-01
		K-40	<1.39E+00	0.00E+00	1.39E+00
272081	10/7/2013 - 10/14/2013	I-131	<4.14E-02	0.00E+00	4.14E-02
		Cs-134	<3.21E-02	0.00E+00	3.21E-02
		Cs-137	<3.82E-02	0.00E+00	3.82E-02
		Be-7	<3.30E-01	0.00E+00	3.30E-01
		K-40	<1.41E+00	0.00E+00	1.41E+00
272464	10/14/2013 - 10/21/2013	I-131	<4.01E-02	0.00E+00	4.01E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.55E-02	0.00E+00	2.55E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	7.94E-01	2.50E-01	3.63E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [ INDICATOR - SSW @ 3.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272864	10/21/2013 - 10/28/2013	I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	5.89E-01	1.63E-01	1.22E-01
273955	10/28/2013 - 11/4/2013	I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.80E-02	0.00E+00	2.80E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	9.83E-01	2.20E-01	4.40E-01
274402	11/4/2013 - 11/11/2013	I-131	<5.01E-02	0.00E+00	5.01E-02
		Cs-134	<3.67E-02	0.00E+00	3.67E-02
		Cs-137	<3.26E-02	0.00E+00	3.26E-02
		Be-7	<3.01E-01	0.00E+00	3.01E-01
		K-40	1.20E+00	2.69E-01	4.32E-01
274916	11/11/2013 - 11/18/2013	I-131	<5.28E-02	0.00E+00	5.28E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<4.27E-02	0.00E+00	4.27E-02
		Be-7	<2.58E-01	0.00E+00	2.58E-01
		K-40	<1.30E+00	0.00E+00	1.30E+00
276470	11/18/2013 - 11/25/2013	I-131	<5.43E-02	0.00E+00	5.43E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	8.88E-01	2.09E-01	3.51E-01
277386	11/25/2013 - 12/2/2013	I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<2.95E-01	0.00E+00	2.95E-01
		K-40	8.79E-01	2.07E-01	1.32E-01
278718	12/2/2013 - 12/9/2013	I-131	<4.82E-02	0.00E+00	4.82E-02
		Cs-134	<3.55E-02	0.00E+00	3.55E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<2.86E-01	0.00E+00	2.86E-01
		K-40	9.73E-01	2.43E-01	1.64E-01
278991	12/9/2013 - 12/16/2013	I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	7.45E-01	1.90E-01	1.99E-01
279637	12/16/2013 - 12/23/2013	I-131	<3.70E-02	0.00E+00	3.70E-02
		Cs-134	<3.30E-02	0.00E+00	3.30E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<2.23E-01	0.00E+00	2.23E-01
		K-40	1.03E+00	2.30E-01	3.94E-01
280115	12/23/2013 - 12/30/2013	I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	6.65E-01	1.72E-01	1.20E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249846	12/31/2012 - 1/7/2013	I-131	<4.70E-02	0.00E+00	4.70E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	1.23E+00	2.14E-01	1.97E-01
250668	1/7/2013 - 1/14/2013	I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	<9.79E-01	0.00E+00	9.79E-01
250815	1/21/2013 - 1/28/2013	I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	7.83E-01	1.80E-01	4.38E-01
251147	1/14/2013 - 1/21/2013	I-131	<3.90E-02	0.00E+00	3.90E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<2.87E-02	0.00E+00	2.87E-02
		Be-7	<2.64E-01	0.00E+00	2.64E-01
		K-40	4.38E-01	1.84E-01	3.55E-01
251301	1/28/2013 - 2/4/2013	I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<3.16E-02	0.00E+00	3.16E-02
		Be-7	<2.56E-01	0.00E+00	2.56E-01
		K-40	1.37E+00	2.31E-01	3.52E-01
251319	2/4/2013 - 2/11/2013	I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.91E-02	0.00E+00	2.91E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	1.11E+00	2.27E-01	3.50E-01
251624	2/11/2013 - 2/18/2013	I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<3.11E-02	0.00E+00	3.11E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	6.25E-01	1.61E-01	1.13E-01
252090	2/18/2013 - 2/25/2013	I-131	<4.04E-02	0.00E+00	4.04E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<4.25E-02	0.00E+00	4.25E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	7.43E-01	1.92E-01	4.12E-01
252719	2/25/2013 - 3/4/2013	I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	6.72E-01	1.37E-01	7.57E-02
253099	3/4/2013 - 3/11/2013	I-131	<3.34E-02	0.00E+00	3.34E-02
		Cs-134	<3.32E-02	0.00E+00	3.32E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	1.02E+00	3.02E-01	5.22E-01





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253902	3/11/2013 - 3/18/2013	I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.96E-02	0.00E+00	2.96E-02
		Be-7	<1.64E-01	0.00E+00	1.64E-01
		K-40	8.03E-01	2.10E-01	3.12E-01
254224	3/18/2013 - 3/25/2013	I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	1.01E+00	1.79E-01	1.83E-01
255320	4/1/2013 - 4/8/2013	I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<9.48E-01	0.00E+00	9.48E-01
255848	4/8/2013 - 4/15/2013	I-131	<3.26E-02	0.00E+00	3.26E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	5.56E-01	1.54E-01	5.19E-01
256082	4/15/2013 - 4/22/2013	I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<3.05E-02	0.00E+00	3.05E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	8.75E-01	2.01E-01	1.24E-01
256360	4/22/2013 - 4/29/2013	I-131	<3.90E-02	0.00E+00	3.90E-02
		Cs-134	<3.02E-02	0.00E+00	3.02E-02
		Cs-137	<2.52E-02	0.00E+00	2.52E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	<8.95E-01	0.00E+00	8.95E-01
257150	4/29/2013 - 5/6/2013	I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.82E-02	0.00E+00	2.82E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	1.49E+00	2.02E-01	7.44E-02
257305	5/6/2013 - 5/13/2013	I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<3.93E-02	0.00E+00	3.93E-02
		K-40	<8.82E-01	0.00E+00	8.82E-01
257752	5/13/2013 - 5/20/2013	I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.84E-02	0.00E+00	2.84E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<7.85E-01	0.00E+00	7.85E-01
257996	5/20/2013 - 5/27/2013	I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.21E-02	0.00E+00	1.21E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	8.91E-01	1.60E-01	7.76E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258231	5/27/2013 - 6/3/2013	I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<4.44E-02	0.00E+00	4.44E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<2.96E-01	0.00E+00	2.96E-01
		K-40	5.30E-01	1.76E-01	4.45E-01
258578	6/3/2013 - 6/10/2013	I-131	<5.92E-02	0.00E+00	5.92E-02
		Cs-134	<3.64E-02	0.00E+00	3.64E-02
		Cs-137	<3.47E-02	0.00E+00	3.47E-02
		Be-7	<2.50E-01	0.00E+00	2.50E-01
		K-40	8.79E-01	2.27E-01	1.58E-01
259055	6/10/2013 - 6/18/2013	I-131	<4.04E-02	0.00E+00	4.04E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<3.99E-02	0.00E+00	3.99E-02
		Be-7	<2.79E-01	0.00E+00	2.79E-01
		K-40	<8.15E-01	0.00E+00	8.15E-01
259603	6/18/2013 - 6/24/2013	I-131	<4.47E-02	0.00E+00	4.47E-02
		Cs-134	<3.45E-02	0.00E+00	3.45E-02
		Cs-137	<5.47E-02	0.00E+00	5.47E-02
		Be-7	<3.24E-01	0.00E+00	3.24E-01
		K-40	8.25E-01	2.38E-01	6.52E-01
260237	6/24/2013 - 7/1/2013	I-131	<5.19E-02	0.00E+00	5.19E-02
		Cs-134	<2.54E-02	0.00E+00	2.54E-02
		Cs-137	<3.89E-02	0.00E+00	3.89E-02
		Be-7	<2.31E-01	0.00E+00	2.31E-01
		K-40	1.12E+00	2.56E-01	5.64E-01
260697	7/1/2013 - 7/8/2013	I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	8.42E-01	1.46E-01	3.03E-01
261660	7/8/2013 - 7/15/2013	I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<2.16E-02	0.00E+00	2.16E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	1.08E+00	2.01E-01	2.68E-01
262162	7/15/2013 - 7/22/2013	I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<4.46E-02	0.00E+00	4.46E-02
		K-40	9.26E-01	1.98E-01	4.64E-01
263168	7/22/2013 - 7/29/2013	I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	1.34E+00	2.06E-01	2.28E-01
263395	7/29/2013 - 8/5/2013	I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<2.62E-02	0.00E+00	2.62E-02
		Cs-137	<3.99E-02	0.00E+00	3.99E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	7.49E-01	2.57E-01	3.56E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
264053	8/5/2013 - 8/12/2013	I-131	<4.41E-02	0.00E+00	4.41E-02
		Cs-134	<3.62E-02	0.00E+00	3.62E-02
		Cs-137	<3.92E-02	0.00E+00	3.92E-02
		Be-7	<2.91E-01	0.00E+00	2.91E-01
		K-40	<1.06E+00	0.00E+00	1.06E+00
265184	8/12/2013 - 8/19/2013	I-131	<3.93E-02	0.00E+00	3.93E-02
		Cs-134	<3.98E-02	0.00E+00	3.98E-02
		Cs-137	<3.61E-02	0.00E+00	3.61E-02
		Be-7	<2.81E-01	0.00E+00	2.81E-01
		K-40	1.22E+00	2.67E-01	5.54E-01
265493	8/19/2013 - 8/26/2013	I-131	<4.89E-02	0.00E+00	4.89E-02
		Cs-134	<3.29E-02	0.00E+00	3.29E-02
		Cs-137	<4.39E-02	0.00E+00	4.39E-02
		Be-7	<3.08E-01	0.00E+00	3.08E-01
		K-40	5.18E-01	3.06E-01	5.61E-01
267179	8/26/2013 - 9/3/2013	I-131	<3.42E-02	0.00E+00	3.42E-02
		Cs-134	<2.87E-02	0.00E+00	2.87E-02
		Cs-137	<2.53E-02	0.00E+00	2.53E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	<9.64E-01	0.00E+00	9.64E-01
267652	9/3/2013 - 9/9/2013	I-131	<7.00E-02	0.00E+00	7.00E-02
		Cs-134	<2.96E-02	0.00E+00	2.96E-02
		Cs-137	<5.58E-02	0.00E+00	5.58E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	7.45E-01	3.18E-01	1.85E-01
268488	9/9/2013 - 9/16/2013	I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<3.27E-02	0.00E+00	3.27E-02
		Cs-137	<2.99E-02	0.00E+00	2.99E-02
		Be-7	<3.94E-01	0.00E+00	3.94E-01
		K-40	7.59E-01	2.11E-01	4.41E-01
269648	9/16/2013 - 9/23/2013	I-131	<5.33E-02	0.00E+00	5.33E-02
		Cs-134	<3.13E-02	0.00E+00	3.13E-02
		Cs-137	<3.77E-02	0.00E+00	3.77E-02
		Be-7	<2.39E-01	0.00E+00	2.39E-01
		K-40	1.47E+00	2.93E-01	1.58E-01
270750	9/23/2013 - 9/30/2013	I-131	<5.01E-02	0.00E+00	5.01E-02
		Cs-134	<3.64E-02	0.00E+00	3.64E-02
		Cs-137	<3.69E-02	0.00E+00	3.69E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
		K-40	6.91E-01	2.00E-01	4.17E-01
271475	9/30/2013 - 10/7/2013	I-131	<4.79E-02	0.00E+00	4.79E-02
		Cs-134	<3.75E-02	0.00E+00	3.75E-02
		Cs-137	<4.22E-02	0.00E+00	4.22E-02
		Be-7	<3.11E-01	0.00E+00	3.11E-01
		K-40	1.26E+00	3.41E-01	5.26E-01
272082	10/7/2013 - 10/14/2013	I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<3.11E-02	0.00E+00	3.11E-02
		Cs-137	<3.81E-02	0.00E+00	3.81E-02
		Be-7	<3.80E-01	0.00E+00	3.80E-01
		K-40	1.56E+00	2.99E-01	4.14E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272465	10/14/2013 - 10/21/2013	I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	9.48E-01	1.94E-01	2.96E-01
272865	10/21/2013 - 10/28/2013	I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<2.88E-02	0.00E+00	2.88E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<2.25E-01	0.00E+00	2.25E-01
		K-40	1.14E+00	2.32E-01	3.42E-01
273956	10/28/2013 - 11/4/2013	I-131	<3.55E-02	0.00E+00	3.55E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<3.34E-02	0.00E+00	3.34E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
		K-40	9.41E-01	2.48E-01	5.03E-01
274403	11/4/2013 - 11/11/2013	I-131	<3.78E-02	0.00E+00	3.78E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<5.01E-02	0.00E+00	5.01E-02
		Be-7	<3.20E-01	0.00E+00	3.20E-01
		K-40	<1.26E+00	0.00E+00	1.26E+00
274917	11/11/2013 - 11/18/2013	I-131	<5.03E-02	0.00E+00	5.03E-02
		Cs-134	<3.94E-02	0.00E+00	3.94E-02
		Cs-137	<4.74E-02	0.00E+00	4.74E-02
		Be-7	<3.20E-01	0.00E+00	3.20E-01
		K-40	7.86E-01	2.63E-01	5.19E-01
276471	11/18/2013 - 11/25/2013	I-131	<3.52E-02	0.00E+00	3.52E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	1.12E+00	1.64E-01	1.72E-01
277387	11/25/2013 - 12/2/2013	I-131	<3.54E-02	0.00E+00	3.54E-02
		Cs-134	<2.81E-02	0.00E+00	2.81E-02
		Cs-137	<4.10E-02	0.00E+00	4.10E-02
		Be-7	<3.28E-01	0.00E+00	3.28E-01
		K-40	1.14E+00	2.54E-01	4.07E-01
278719	12/2/2013 - 12/9/2013	I-131	<4.98E-02	0.00E+00	4.98E-02
		Cs-134	<3.86E-02	0.00E+00	3.86E-02
		Cs-137	<4.37E-02	0.00E+00	4.37E-02
		Be-7	<2.91E-01	0.00E+00	2.91E-01
		K-40	9.31E-01	2.33E-01	5.48E-01
278992	12/9/2013 - 12/16/2013	I-131	<3.26E-02	0.00E+00	3.26E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<2.53E-01	0.00E+00	2.53E-01
		K-40	7.35E-01	2.32E-01	4.06E-01
279638	12/16/2013 - 12/23/2013	I-131	<5.01E-02	0.00E+00	5.01E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<3.23E-02	0.00E+00	3.23E-02
		Be-7	<2.75E-01	0.00E+00	2.75E-01
		K-40	8.45E-01	2.05E-01	5.25E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
280116	12/23/2013 - 12/30/2013	I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<2.32E-01	0.00E+00	2.32E-01
		K-40	1.33E+00	2.51E-01	3.39E-01

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249847	12/31/2012 - 1/7/2013	I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	7.32E-01	1.83E-01	3.86E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250669	1/7/2013 - 1/14/2013	I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<2.13E-01	0.00E+00	2.13E-01
		K-40	<7.58E-01	0.00E+00	7.58E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250816	1/21/2013 - 1/28/2013	I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<3.48E-02	0.00E+00	3.48E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	9.70E-01	1.94E-01	7.98E-02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251148	1/14/2013 - 1/21/2013	I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<4.90E-03	0.00E+00	4.90E-03
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	8.45E-01	2.31E-01	3.67E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251302	1/28/2013 - 2/4/2013	I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	7.03E-01	1.76E-01	3.75E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251320	2/4/2013 - 2/11/2013	I-131	<3.46E-02	0.00E+00	3.46E-02
		Cs-134	<2.68E-02	0.00E+00	2.68E-02
		Cs-137	<3.85E-02	0.00E+00	3.85E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	7.30E-01	1.82E-01	1.23E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251625	2/11/2013 - 2/18/2013	I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	1.43E+00	2.06E-01	2.76E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252091	2/18/2013 - 2/25/2013	I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	6.81E-01	1.90E-01	2.77E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252720	2/25/2013 - 3/4/2013	I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.49E-02	0.00E+00	2.49E-02
		Cs-137	<2.95E-02	0.00E+00	2.95E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252720	2/25/2013 - 3/4/2013	K-40	7.84E-01	1.87E-01	3.56E-01
253100	3/4/2013 - 3/11/2013	I-131	<4.36E-02	0.00E+00	4.36E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<3.45E-02	0.00E+00	3.45E-02
		Be-7	<2.97E-01	0.00E+00	2.97E-01
		K-40	1.16E+00	2.43E-01	4.16E-01
253903	3/11/2013 - 3/18/2013	I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	1.25E+00	1.80E-01	7.02E-02
254225	3/18/2013 - 3/25/2013	I-131	<4.06E-02	0.00E+00	4.06E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<3.63E-02	0.00E+00	3.63E-02
		Be-7	<2.36E-01	0.00E+00	2.36E-01
		K-40	<9.65E-01	0.00E+00	9.65E-01
254760	3/25/2013 - 4/1/2013	I-131	<3.89E-02	0.00E+00	3.89E-02
		Cs-134	<3.92E-02	0.00E+00	3.92E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<3.06E-01	0.00E+00	3.06E-01
		K-40	9.46E-01	2.68E-01	5.24E-01
255321	4/1/2013 - 4/8/2013	I-131	<3.94E-02	0.00E+00	3.94E-02
		Cs-134	<3.19E-02	0.00E+00	3.19E-02
		Cs-137	<3.26E-02	0.00E+00	3.26E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	7.46E-01	1.92E-01	4.53E-01
255849	4/8/2013 - 4/15/2013	I-131	<3.40E-02	0.00E+00	3.40E-02
		Cs-134	<2.26E-02	0.00E+00	2.26E-02
		Cs-137	<3.05E-02	0.00E+00	3.05E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	7.42E-01	1.75E-01	3.63E-01
256083	4/15/2013 - 4/22/2013	I-131	<2.97E-02	0.00E+00	2.97E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<2.96E-02	0.00E+00	2.96E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	9.16E-01	1.62E-01	7.74E-02
256371	4/22/2013 - 4/29/2013	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	8.12E-01	1.86E-01	1.16E-01
257161	4/29/2013 - 5/6/2013	I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	1.08E+00	1.94E-01	1.96E-01
257306	5/6/2013 - 5/13/2013	I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<2.63E-02	0.00E+00	2.63E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257306	5/6/2013 - 5/13/2013	Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	8.70E-01	1.64E-01	2.26E-01
257753	5/13/2013 - 5/20/2013	I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.28E-02	0.00E+00	2.28E-02
		Cs-137	<3.10E-02	0.00E+00	3.10E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	<8.36E-01	0.00E+00	8.36E-01
257997	5/20/2013 - 5/27/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	1.12E+00	1.85E-01	8.21E-02
258232	5/27/2013 - 6/3/2013	I-131	<4.95E-02	0.00E+00	4.95E-02
		Cs-134	<4.04E-02	0.00E+00	4.04E-02
		Cs-137	<4.01E-02	0.00E+00	4.01E-02
		Be-7	<2.97E-01	0.00E+00	2.97E-01
		K-40	6.82E-01	2.06E-01	5.94E-01
258579	6/3/2013 - 6/10/2013	I-131	<4.49E-02	0.00E+00	4.49E-02
		Cs-134	<4.81E-02	0.00E+00	4.81E-02
		Cs-137	<5.53E-02	0.00E+00	5.53E-02
		Be-7	<3.01E-01	0.00E+00	3.01E-01
		K-40	6.95E-01	2.88E-01	4.68E-01
259056	6/10/2013 - 6/18/2013	I-131	<5.44E-02	0.00E+00	5.44E-02
		Cs-134	<2.35E-02	0.00E+00	2.35E-02
		Cs-137	<2.78E-02	0.00E+00	2.78E-02
		Be-7	<2.10E-01	0.00E+00	2.10E-01
		K-40	9.24E-01	2.24E-01	4.90E-01
259604	6/18/2013 - 6/24/2013	I-131	<3.89E-02	0.00E+00	3.89E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<2.56E-01	0.00E+00	2.56E-01
		K-40	1.23E+00	2.75E-01	1.66E-01
260238	6/24/2013 - 7/1/2013	I-131	<5.17E-02	0.00E+00	5.17E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<3.57E-02	0.00E+00	3.57E-02
		Be-7	<3.23E-01	0.00E+00	3.23E-01
		K-40	1.31E+00	2.85E-01	4.71E-01
260698	7/1/2013 - 7/8/2013	I-131	<3.84E-02	0.00E+00	3.84E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<3.92E-02	0.00E+00	3.92E-02
		Be-7	<2.34E-01	0.00E+00	2.34E-01
		K-40	1.26E+00	2.58E-01	1.42E-01
261661	7/8/2013 - 7/15/2013	I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.89E-02	0.00E+00	2.89E-02
		Be-7	<4.18E-02	0.00E+00	4.18E-02
		K-40	5.58E-01	2.05E-01	3.31E-01
262163	7/15/2013 - 7/22/2013	I-131	<1.93E-02	0.00E+00	1.93E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
262163	7/15/2013 - 7/22/2013	Cs-137	<2.62E-02	0.00E+00	2.62E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	3.78E-01	1.76E-01	3.26E-01
263169	7/22/2013 - 7/29/2013	I-131	<5.29E-02	0.00E+00	5.29E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<4.33E-02	0.00E+00	4.33E-02
		Be-7	<3.04E-01	0.00E+00	3.04E-01
		K-40	8.09E-01	2.24E-01	4.70E-01
263396	7/29/2013 - 8/5/2013	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	1.29E+00	1.86E-01	2.42E-01
264054	8/5/2013 - 8/12/2013	I-131	<3.35E-02	0.00E+00	3.35E-02
		Cs-134	<3.18E-02	0.00E+00	3.18E-02
		Cs-137	<4.30E-02	0.00E+00	4.30E-02
		Be-7	<2.02E-01	0.00E+00	2.02E-01
		K-40	7.95E-01	2.05E-01	1.43E-01
265185	8/12/2013 - 8/19/2013	I-131	<5.96E-02	0.00E+00	5.96E-02
		Cs-134	<3.09E-02	0.00E+00	3.09E-02
		Cs-137	<2.49E-02	0.00E+00	2.49E-02
		Be-7	<3.06E-01	0.00E+00	3.06E-01
		K-40	<9.23E-01	0.00E+00	9.23E-01
265494	8/19/2013 - 8/26/2013	I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<2.31E-02	0.00E+00	2.31E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	9.44E-01	2.11E-01	3.64E-01
267180	8/26/2013 - 9/3/2013	I-131	<5.00E-02	0.00E+00	5.00E-02
		Cs-134	<4.55E-02	0.00E+00	4.55E-02
		Cs-137	<4.86E-02	0.00E+00	4.86E-02
		Be-7	<2.62E-01	0.00E+00	2.62E-01
		K-40	<1.03E+00	0.00E+00	1.03E+00
267653	9/3/2013 - 9/9/2013	I-131	<4.57E-02	0.00E+00	4.57E-02
		Cs-134	<4.95E-02	0.00E+00	4.95E-02
		Cs-137	<2.88E-02	0.00E+00	2.88E-02
		Be-7	<3.25E-01	0.00E+00	3.25E-01
		K-40	<1.56E+00	0.00E+00	1.56E+00
268489	9/9/2013 - 9/16/2013	I-131	<5.33E-02	0.00E+00	5.33E-02
		Cs-134	<3.60E-02	0.00E+00	3.60E-02
		Cs-137	<4.13E-02	0.00E+00	4.13E-02
		Be-7	<3.41E-01	0.00E+00	3.41E-01
		K-40	1.55E+00	3.16E-01	5.77E-01
269649	9/16/2013 - 9/23/2013	I-131	<3.70E-02	0.00E+00	3.70E-02
		Cs-134	<2.33E-02	0.00E+00	2.33E-02
		Cs-137	<3.39E-02	0.00E+00	3.39E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	6.35E-01	1.76E-01	1.32E-01
270751	9/23/2013 - 9/30/2013	I-131	<5.24E-02	0.00E+00	5.24E-02





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
270751	9/23/2013 - 9/30/2013	Cs-134	<4.84E-02	0.00E+00	4.84E-02
		Cs-137	<3.25E-02	0.00E+00	3.25E-02
		Be-7	<2.49E-01	0.00E+00	2.49E-01
		K-40	<1.39E+00	0.00E+00	1.39E+00
271476	9/30/2013 - 10/7/2013	I-131	<5.05E-02	0.00E+00	5.05E-02
		Cs-134	<4.59E-02	0.00E+00	4.59E-02
		Cs-137	<3.66E-02	0.00E+00	3.66E-02
		Be-7	<3.28E-01	0.00E+00	3.28E-01
272083	10/7/2013 - 10/14/2013	K-40	8.38E-01	2.32E-01	6.18E-01
		I-131	<6.51E-02	0.00E+00	6.51E-02
		Cs-134	<4.02E-02	0.00E+00	4.02E-02
		Cs-137	<3.69E-02	0.00E+00	3.69E-02
272466	10/14/2013 - 10/21/2013	Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	9.38E-01	3.32E-01	5.48E-01
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
272866	10/21/2013 - 10/28/2013	Cs-137	<3.50E-02	0.00E+00	3.50E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	6.28E-01	1.74E-01	1.31E-01
		I-131	<2.70E-02	0.00E+00	2.70E-02
273957	10/28/2013 - 11/4/2013	Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	1.26E+00	2.07E-01	1.92E-01
274404	11/4/2013 - 11/11/2013	I-131	<3.11E-02	0.00E+00	3.11E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
274918	11/11/2013 - 11/18/2013	K-40	9.07E-01	1.98E-01	3.14E-01
		I-131	<5.41E-02	0.00E+00	5.41E-02
		Cs-134	<4.40E-02	0.00E+00	4.40E-02
		Cs-137	<5.00E-02	0.00E+00	5.00E-02
276472	11/18/2013 - 11/25/2013	Be-7	<2.78E-01	0.00E+00	2.78E-01
		K-40	1.58E+00	3.16E-01	7.37E-01
		I-131	<4.25E-02	0.00E+00	4.25E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
277388	11/25/2013 - 12/2/2013	Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
		K-40	8.25E-01	2.33E-01	3.97E-01
		I-131	<3.80E-02	0.00E+00	3.80E-02
		Cs-134	<3.28E-02	0.00E+00	3.28E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<2.21E-01	0.00E+00	2.21E-01
		K-40	7.23E-01	1.93E-01	1.40E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [ INDICATOR - SSW @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
278720	12/2/2013 - 12/9/2013	I-131	<4.22E-02	0.00E+00	4.22E-02
		Cs-134	<4.98E-02	0.00E+00	4.98E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<3.41E-01	0.00E+00	3.41E-01
		K-40	8.70E-01	2.94E-01	7.83E-01
278993	12/9/2013 - 12/16/2013	I-131	<4.56E-02	0.00E+00	4.56E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<4.08E-02	0.00E+00	4.08E-02
		Be-7	<2.83E-01	0.00E+00	2.83E-01
		K-40	1.27E+00	2.77E-01	1.63E-01
279639	12/16/2013 - 12/23/2013	I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	1.14E+00	1.77E-01	2.03E-01
280117	12/23/2013 - 12/30/2013	I-131	<3.51E-02	0.00E+00	3.51E-02
		Cs-134	<2.37E-02	0.00E+00	2.37E-02
		Cs-137	<3.09E-02	0.00E+00	3.09E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
		K-40	4.75E-01	2.05E-01	4.27E-01

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249848	12/31/2012 - 1/7/2013	I-131	<5.89E-02	0.00E+00	5.89E-02
		Cs-134	<2.95E-02	0.00E+00	2.95E-02
		Cs-137	<3.58E-02	0.00E+00	3.58E-02
		Be-7	<2.52E-01	0.00E+00	2.52E-01
		K-40	7.93E-01	1.98E-01	1.34E-01
250670	1/7/2013 - 1/14/2013	I-131	<3.40E-02	0.00E+00	3.40E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<4.02E-02	0.00E+00	4.02E-02
		Be-7	<2.07E-01	0.00E+00	2.07E-01
		K-40	3.66E-01	2.27E-01	6.60E-01
250817	1/21/2013 - 1/28/2013	I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	<8.39E-01	0.00E+00	8.39E-01
251149	1/14/2013 - 1/21/2013	I-131	<1.40E-02	0.00E+00	1.40E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	<9.29E-01	0.00E+00	9.29E-01
251303	1/28/2013 - 2/4/2013	I-131	<3.80E-02	0.00E+00	3.80E-02
		Cs-134	<3.41E-02	0.00E+00	3.41E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.87E-01	0.00E+00	1.87E-01
		K-40	8.62E-01	2.03E-01	4.58E-01
251321	2/4/2013 - 2/11/2013	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251321	2/4/2013 - 2/11/2013	K-40	9.66E-01	1.94E-01	3.38E-01
251626	2/11/2013 - 2/18/2013	I-131	<3.76E-02	0.00E+00	3.76E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<3.26E-02	0.00E+00	3.26E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	3.01E-01	2.02E-01	4.85E-01
252092	2/18/2013 - 2/25/2013	I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.73E-02	0.00E+00	2.73E-02
		Be-7	<2.14E-01	0.00E+00	2.14E-01
		K-40	5.02E-01	1.83E-01	1.16E-01
252721	2/25/2013 - 3/4/2013	I-131	<3.88E-02	0.00E+00	3.88E-02
		Cs-134	<3.58E-02	0.00E+00	3.58E-02
		Cs-137	<4.11E-02	0.00E+00	4.11E-02
		Be-7	<2.06E-01	0.00E+00	2.06E-01
		K-40	<8.81E-01	0.00E+00	8.81E-01
253101	3/4/2013 - 3/11/2013	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.41E-02	0.00E+00	2.41E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.98E-01	0.00E+00	1.98E-01
		K-40	<8.34E-01	0.00E+00	8.34E-01
253904	3/11/2013 - 3/18/2013	I-131	<4.73E-02	0.00E+00	4.73E-02
		Cs-134	<2.79E-02	0.00E+00	2.79E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<2.15E-01	0.00E+00	2.15E-01
		K-40	1.07E+00	2.78E-01	5.17E-01
254226	3/18/2013 - 3/25/2013	I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<2.23E-02	0.00E+00	2.23E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	1.06E+00	2.21E-01	3.26E-01
254761	3/25/2013 - 4/1/2013	I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	1.36E+00	2.07E-01	2.35E-01
255322	4/1/2013 - 4/8/2013	I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	1.10E+00	1.79E-01	2.65E-01
255850	4/8/2013 - 4/15/2013	I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	3.79E-01	1.46E-01	7.88E-02
256084	4/15/2013 - 4/22/2013	I-131	<3.48E-02	0.00E+00	3.48E-02
		Cs-134	<3.75E-02	0.00E+00	3.75E-02
		Cs-137	<3.66E-02	0.00E+00	3.66E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256084	4/15/2013 - 4/22/2013	Be-7	<2.21E-01	0.00E+00	2.21E-01
		K-40	9.51E-01	2.18E-01	3.76E-01
256361	4/22/2013 - 4/29/2013	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	<9.17E-01	0.00E+00	9.17E-01
257151	4/29/2013 - 5/6/2013	I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<8.08E-01	0.00E+00	8.08E-01
257307	5/6/2013 - 5/13/2013	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	8.37E-01	1.78E-01	3.02E-01
257754	5/13/2013 - 5/20/2013	I-131	<3.77E-02	0.00E+00	3.77E-02
		Cs-134	<3.91E-02	0.00E+00	3.91E-02
		Cs-137	<3.54E-02	0.00E+00	3.54E-02
		Be-7	<1.92E-01	0.00E+00	1.92E-01
		K-40	<9.09E-01	0.00E+00	9.09E-01
257998	5/20/2013 - 5/27/2013	I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.50E-02	0.00E+00	2.50E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	6.58E-01	1.37E-01	7.74E-02
258233	5/27/2013 - 6/3/2013	I-131	<4.96E-02	0.00E+00	4.96E-02
		Cs-134	<3.35E-02	0.00E+00	3.35E-02
		Cs-137	<4.25E-02	0.00E+00	4.25E-02
		Be-7	<3.36E-01	0.00E+00	3.36E-01
		K-40	<1.30E+00	0.00E+00	1.30E+00
258580	6/3/2013 - 6/10/2013	I-131	<4.37E-02	0.00E+00	4.37E-02
		Cs-134	<3.86E-02	0.00E+00	3.86E-02
		Cs-137	<2.38E-02	0.00E+00	2.38E-02
		Be-7	<2.84E-01	0.00E+00	2.84E-01
		K-40	6.20E-01	2.49E-01	1.58E-01
259057	6/10/2013 - 6/18/2013	I-131	<4.90E-02	0.00E+00	4.90E-02
		Cs-134	<3.23E-02	0.00E+00	3.23E-02
		Cs-137	<3.26E-02	0.00E+00	3.26E-02
		Be-7	<2.63E-01	0.00E+00	2.63E-01
		K-40	7.22E-01	1.93E-01	4.65E-01
259605	6/18/2013 - 6/24/2013	I-131	<2.91E-02	0.00E+00	2.91E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	1.23E+00	2.14E-01	3.12E-01
260239	6/24/2013 - 7/1/2013	I-131	<5.55E-02	0.00E+00	5.55E-02
		Cs-134	<4.09E-02	0.00E+00	4.09E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260239	6/24/2013 - 7/1/2013	Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<2.94E-01	0.00E+00	2.94E-01
		K-40	1.39E+00	3.26E-01	4.42E-01
260699	7/1/2013 - 7/8/2013	I-131	<4.94E-02	0.00E+00	4.94E-02
		Cs-134	<3.12E-02	0.00E+00	3.12E-02
		Cs-137	<4.28E-02	0.00E+00	4.28E-02
		Be-7	<2.77E-01	0.00E+00	2.77E-01
		K-40	1.08E+00	3.11E-01	5.01E-01
261662	7/8/2013 - 7/15/2013	I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<2.71E-02	0.00E+00	2.71E-02
		Cs-137	<6.42E-03	0.00E+00	6.42E-03
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	<6.46E-01	0.00E+00	6.46E-01
262164	7/15/2013 - 7/22/2013	I-131	<3.57E-02	0.00E+00	3.57E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	3.97E-01	1.32E-01	4.83E-01
263170	7/22/2013 - 7/29/2013	I-131	<3.64E-02	0.00E+00	3.64E-02
		Cs-134	<4.09E-02	0.00E+00	4.09E-02
		Cs-137	<3.69E-02	0.00E+00	3.69E-02
		Be-7	<3.01E-01	0.00E+00	3.01E-01
		K-40	<1.14E+00	0.00E+00	1.14E+00
263397	7/29/2013 - 8/5/2013	I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	8.75E-01	1.91E-01	3.08E-01
264055	8/5/2013 - 8/12/2013	I-131	<4.68E-02	0.00E+00	4.68E-02
		Cs-134	<3.93E-02	0.00E+00	3.93E-02
		Cs-137	<4.19E-02	0.00E+00	4.19E-02
		Be-7	<2.80E-01	0.00E+00	2.80E-01
		K-40	<1.38E+00	0.00E+00	1.38E+00
265186	8/12/2013 - 8/19/2013	I-131	<4.61E-02	0.00E+00	4.61E-02
		Cs-134	<3.96E-02	0.00E+00	3.96E-02
		Cs-137	<4.43E-02	0.00E+00	4.43E-02
		Be-7	<2.89E-01	0.00E+00	2.89E-01
		K-40	7.54E-01	2.67E-01	4.36E-01
265495	8/19/2013 - 8/26/2013	I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<3.17E-02	0.00E+00	3.17E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	7.92E-01	1.87E-01	1.19E-01
267181	8/26/2013 - 9/3/2013	I-131	<4.63E-02	0.00E+00	4.63E-02
		Cs-134	<3.11E-02	0.00E+00	3.11E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	1.07E+00	2.33E-01	5.64E-01
267654	9/3/2013 - 9/9/2013	I-131	<5.72E-02	0.00E+00	5.72E-02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267654	9/3/2013 - 9/9/2013	Cs-134	<4.15E-02	0.00E+00	4.15E-02
		Cs-137	<3.96E-02	0.00E+00	3.96E-02
		Be-7	<3.24E-01	0.00E+00	3.24E-01
		K-40	1.43E+00	3.11E-01	1.84E-01
268490	9/9/2013 - 9/16/2013	I-131	<5.92E-02	0.00E+00	5.92E-02
		Cs-134	<3.14E-02	0.00E+00	3.14E-02
		Cs-137	<4.13E-02	0.00E+00	4.13E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	9.28E-01	2.32E-01	1.57E-01
269650	9/16/2013 - 9/23/2013	I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	1.06E+00	1.68E-01	2.25E-01
270752	9/23/2013 - 9/30/2013	I-131	<5.04E-02	0.00E+00	5.04E-02
		Cs-134	<3.62E-02	0.00E+00	3.62E-02
		Cs-137	<3.78E-02	0.00E+00	3.78E-02
		Be-7	<2.38E-01	0.00E+00	2.38E-01
		K-40	8.86E-01	3.14E-01	7.10E-01
271477	9/30/2013 - 10/7/2013	I-131	<4.82E-02	0.00E+00	4.82E-02
		Cs-134	<3.71E-02	0.00E+00	3.71E-02
		Cs-137	<4.93E-02	0.00E+00	4.93E-02
		Be-7	1.38E-01	9.79E-02	2.72E-01
		K-40	8.36E-01	3.09E-01	1.56E-01
272084	10/7/2013 - 10/14/2013	I-131	<3.77E-02	0.00E+00	3.77E-02
		Cs-134	<3.03E-02	0.00E+00	3.03E-02
		Cs-137	<3.74E-02	0.00E+00	3.74E-02
		Be-7	<2.98E-01	0.00E+00	2.98E-01
		K-40	1.07E+00	3.01E-01	6.03E-01
272467	10/14/2013 - 10/21/2013	I-131	<4.93E-02	0.00E+00	4.93E-02
		Cs-134	<4.41E-02	0.00E+00	4.41E-02
		Cs-137	<3.41E-02	0.00E+00	3.41E-02
		Be-7	<2.26E-01	0.00E+00	2.26E-01
		K-40	<1.08E+00	0.00E+00	1.08E+00
272867	10/21/2013 - 10/28/2013	I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<2.93E-02	0.00E+00	2.93E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	9.32E-01	1.90E-01	2.85E-01
273958	10/28/2013 - 11/4/2013	I-131	<3.75E-02	0.00E+00	3.75E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.82E-02	0.00E+00	2.82E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	7.32E-01	1.78E-01	4.22E-01
274405	11/4/2013 - 11/11/2013	I-131	<5.56E-02	0.00E+00	5.56E-02
		Cs-134	<4.21E-02	0.00E+00	4.21E-02
		Cs-137	<3.98E-02	0.00E+00	3.98E-02
		Be-7	<3.14E-01	0.00E+00	3.14E-01
		K-40	<1.31E+00	0.00E+00	1.31E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m<sup>3</sup>

Sample Point 91 [ INDICATOR - ENE @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274919	11/11/2013 - 11/18/2013	I-131	<4.98E-02	0.00E+00	4.98E-02
		Cs-134	<3.83E-02	0.00E+00	3.83E-02
		Cs-137	<3.54E-02	0.00E+00	3.54E-02
		Be-7	<2.93E-01	0.00E+00	2.93E-01
		K-40	8.93E-01	2.72E-01	5.12E-01
276473	11/18/2013 - 11/25/2013	I-131	<4.94E-02	0.00E+00	4.94E-02
		Cs-134	<2.97E-02	0.00E+00	2.97E-02
		Cs-137	<2.92E-02	0.00E+00	2.92E-02
		Be-7	<2.08E-01	0.00E+00	2.08E-01
		K-40	8.61E-01	1.93E-01	1.16E-01
277389	11/25/2013 - 12/2/2013	I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	7.13E-01	1.50E-01	2.15E-01
278721	12/2/2013 - 12/9/2013	I-131	<3.39E-02	0.00E+00	3.39E-02
		Cs-134	<3.76E-02	0.00E+00	3.76E-02
		Cs-137	<3.88E-02	0.00E+00	3.88E-02
		Be-7	<2.18E-01	0.00E+00	2.18E-01
		K-40	5.72E-01	1.81E-01	1.55E-01
278994	12/9/2013 - 12/16/2013	I-131	<4.70E-02	0.00E+00	4.70E-02
		Cs-134	<4.56E-02	0.00E+00	4.56E-02
		Cs-137	<4.39E-02	0.00E+00	4.39E-02
		Be-7	<2.17E-01	0.00E+00	2.17E-01
		K-40	7.26E-01	2.01E-01	6.19E-01
279640	12/16/2013 - 12/23/2013	I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<8.53E-03	0.00E+00	8.53E-03
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<7.31E-02	0.00E+00	7.31E-02
		K-40	1.04E+00	1.01E-01	1.08E-01
280118	12/23/2013 - 12/30/2013	I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	9.83E-01	1.52E-01	2.14E-01

Media Type: AQUATIC VEGETATION Concentration (Activity): pCi/kg

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272766	10/9/2013 - 10/9/2013	I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<1.41E+01	0.00E+00	1.41E+01
		Cs-137	<1.30E+01	0.00E+00	1.30E+01
		Be-7	3.66E+02	7.05E+01	1.28E+02
		K-40	1.34E+03	1.41E+02	1.53E+02

Sample Point 41 [ INDICATOR - S @ 3.8 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272767	10/9/2013 - 10/9/2013	I-131	<2.23E+01	0.00E+00	2.23E+01
		Cs-134	<1.61E+01	0.00E+00	1.61E+01
		Cs-137	<2.13E+01	0.00E+00	2.13E+01
		Be-7	2.27E+02	6.25E+01	1.46E+02
		K-40	1.84E+03	2.21E+02	2.29E+02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: AQUATIC VEGETATION Concentration (Activity): pCi/kg

Sample Point 61 [ CONTROL - E @ 2.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272768	10/9/2013 - 10/9/2013	I-131	<3.95E+01	0.00E+00	3.95E+01
		Cs-134	<2.94E+01	0.00E+00	2.94E+01
		Cs-137	<3.23E+01	0.00E+00	3.23E+01
		Be-7	<3.03E+02	0.00E+00	3.03E+02
		K-40	3.31E+03	2.33E+02	2.06E+02

Media Type: CROPS Concentration (Activity): pCi/kg

Sample Point 5 [ CONTROL - NNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
262843	7/15/2013 - 7/15/2013	I-131	<1.16E+01	0.00E+00	1.16E+01	TOMATOES
		Cs-134	<8.40E+00	0.00E+00	8.40E+00	
		Cs-137	<1.10E+01	0.00E+00	1.10E+01	
		Be-7	<8.23E+01	0.00E+00	8.23E+01	
		K-40	2.15E+03	1.34E+02	1.24E+02	

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
265254	8/12/2013 - 8/12/2013	I-131	<1.25E+01	0.00E+00	1.25E+01	TOMATOES
		Cs-134	<1.10E+01	0.00E+00	1.10E+01	
		Cs-137	<1.58E+01	0.00E+00	1.58E+01	
		Be-7	<1.43E+02	0.00E+00	1.43E+02	
		K-40	1.99E+03	1.83E+02	1.50E+02	

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
266157	8/12/2013 - 8/12/2013	I-131	<1.32E+01	0.00E+00	1.32E+01	OKRA
		Cs-134	<1.30E+01	0.00E+00	1.30E+01	
		Cs-137	<1.22E+01	0.00E+00	1.22E+01	
		Be-7	<8.69E+01	0.00E+00	8.69E+01	
		K-40	2.87E+03	1.94E+02	1.35E+02	

Sample Point 55 [ INDICATOR - NNW @ 2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
250825	1/14/2013 - 1/14/2013	I-131	<1.20E+01	0.00E+00	1.20E+01	COLLARDS
		Cs-134	<1.37E+01	0.00E+00	1.37E+01	
		Cs-137	<1.77E+01	0.00E+00	1.77E+01	
		Be-7	<1.21E+02	0.00E+00	1.21E+02	
		K-40	3.18E+03	1.86E+02	1.72E+02	

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
252963	2/18/2013 - 2/18/2013	I-131	<2.10E+01	0.00E+00	2.10E+01	COLLARDS
		Cs-134	<1.88E+01	0.00E+00	1.88E+01	
		Cs-137	<3.30E+01	0.00E+00	3.30E+01	
		Be-7	<2.14E+02	0.00E+00	2.14E+02	
		K-40	4.15E+03	3.27E+02	2.67E+02	

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
255221	3/18/2013 - 3/18/2013	I-131	<1.79E+01	0.00E+00	1.79E+01	COLLARDS
		Cs-134	<1.63E+01	0.00E+00	1.63E+01	
		Cs-137	<2.05E+01	0.00E+00	2.05E+01	
		Be-7	<1.94E+02	0.00E+00	1.94E+02	
		K-40	3.86E+03	2.48E+02	1.66E+02	

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
269939	9/16/2013 - 9/16/2013	I-131	<1.78E+01	0.00E+00	1.78E+01	COLLARDS
		Cs-134	<1.20E+01	0.00E+00	1.20E+01	
		Cs-137	<2.12E+01	0.00E+00	2.12E+01	
		Be-7	<1.38E+02	0.00E+00	1.38E+02	
		K-40	4.14E+03	2.74E+02	1.71E+02	

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype
275118	11/11/2013 - 11/11/2013	I-131	<1.24E+01	0.00E+00	1.24E+01	COLLARDS
		Cs-134	<1.00E+01	0.00E+00	1.00E+01	
		Cs-137	<1.26E+01	0.00E+00	1.26E+01	
		Be-7	1.21E+02	5.55E+01	1.03E+02	
		K-40	4.16E+03	2.01E+02	9.73E+01	





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251067	1/7/2013 - 1/14/2013	Be-7	<3.01E+00	0.00E+00	3.01E+00
		K-40	1.38E+01	2.06E+00	3.86E+00
		LLI-131	<6.02E-01	0.00E+00	6.02E-01
251831	1/21/2013 - 1/28/2013	Be-7	<4.05E+00	0.00E+00	4.05E+00
		K-40	1.40E+01	2.51E+00	7.06E+00
		LLI-131	<5.61E-01	0.00E+00	5.61E-01
251896	1/7/2013 - 1/28/2013	Beta	2.01E+00	4.16E-01	1.26E+00
		Mn-54	<2.62E+00	0.00E+00	2.62E+00
		Co-58	<3.39E+00	0.00E+00	3.39E+00
		Fe-59	<8.03E+00	0.00E+00	8.03E+00
		Co-60	<3.37E+00	0.00E+00	3.37E+00
		Zn-65	<5.65E+00	0.00E+00	5.65E+00
		Zr-95	<4.93E+00	0.00E+00	4.93E+00
		Nb-95	<4.68E+00	0.00E+00	4.68E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<2.79E+00	0.00E+00	2.79E+00
		Cs-137	<3.77E+00	0.00E+00	3.77E+00
		BaLa-140	<8.54E+00	0.00E+00	8.54E+00
		Be-7	<3.20E+01	0.00E+00	3.20E+01
		K-40	8.04E+01	1.50E+01	3.40E+01
H3DW	7.61E+03	1.28E+02	1.59E+02		
252914	2/4/2013 - 2/11/2013	Be-7	<3.17E+00	0.00E+00	3.17E+00
		K-40	1.00E+01	3.01E+00	6.92E+00
		LLI-131	<6.12E-01	0.00E+00	6.12E-01
254117	2/18/2013 - 2/25/2013	Be-7	<1.65E+00	0.00E+00	1.65E+00
		K-40	1.23E+01	1.35E+00	1.67E+00
		LLI-131	<6.26E-01	0.00E+00	6.26E-01
254121	2/4/2013 - 2/25/2013	Beta	2.27E+00	4.54E-01	1.39E+00
		Mn-54	<3.49E+00	0.00E+00	3.49E+00
		Co-58	<3.58E+00	0.00E+00	3.58E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<4.87E+00	0.00E+00	4.87E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<7.86E+00	0.00E+00	7.86E+00
		Nb-95	<5.32E+00	0.00E+00	5.32E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.71E+00	0.00E+00	3.71E+00
		Cs-137	<4.36E+00	0.00E+00	4.36E+00
		BaLa-140	<8.95E+00	0.00E+00	8.95E+00
		Be-7	<3.61E+01	0.00E+00	3.61E+01
		K-40	1.76E+02	2.75E+01	3.87E+01
H3DW	7.41E+03	1.27E+02	1.55E+02		
255083	3/4/2013 - 3/11/2013	Be-7	<3.62E+00	0.00E+00	3.62E+00
		K-40	2.23E+01	3.06E+00	5.62E+00
		LLI-131	<6.41E-01	0.00E+00	6.41E-01
255968	3/11/2013 - 3/25/2013	Be-7	<2.02E+00	0.00E+00	2.02E+00
		K-40	1.15E+01	1.80E+00	2.94E+00
		LLI-131	<6.39E-01	0.00E+00	6.39E-01
255973	3/4/2013 - 3/25/2013	Beta	2.73E+00	4.47E-01	1.32E+00
		Mn-54	<3.27E+00	0.00E+00	3.27E+00
		Co-58	<4.50E+00	0.00E+00	4.50E+00
		Fe-59	<7.40E+00	0.00E+00	7.40E+00
		Co-60	<5.87E+00	0.00E+00	5.87E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255973	3/4/2013 - 3/25/2013	Zn-65	<1.10E+01	0.00E+00	1.10E+01
		Zr-95	<8.18E+00	0.00E+00	8.18E+00
		Nb-95	<4.51E+00	0.00E+00	4.51E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<3.73E+00	0.00E+00	3.73E+00
		Cs-137	<4.16E+00	0.00E+00	4.16E+00
		BaLa-140	<9.75E+00	0.00E+00	9.75E+00
		Be-7	<3.24E+01	0.00E+00	3.24E+01
		K-40	5.31E+01	1.88E+01	5.69E+01
		H3DW	6.46E+03	1.22E+02	1.74E+02
256456	3/25/2013 - 4/8/2013	Be-7	<2.86E+00	0.00E+00	2.86E+00
		K-40	1.37E+01	2.57E+00	3.80E+00
		LLI-131	<6.44E-01	0.00E+00	6.44E-01
256984	4/1/2013 - 4/22/2013	Beta	2.36E+00	4.54E-01	1.38E+00
		Mn-54	<3.93E+00	0.00E+00	3.93E+00
		Co-58	<6.54E+00	0.00E+00	6.54E+00
		Fe-59	<1.28E+01	0.00E+00	1.28E+01
		Co-60	<6.95E+00	0.00E+00	6.95E+00
		Zn-65	<1.16E+01	0.00E+00	1.16E+01
		Zr-95	<5.70E+00	0.00E+00	5.70E+00
		Nb-95	<6.44E+00	0.00E+00	6.44E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<3.45E+00	0.00E+00	3.45E+00
		Cs-137	<4.70E+00	0.00E+00	4.70E+00
		BaLa-140	<1.43E+01	0.00E+00	1.43E+01
		Be-7	<4.32E+01	0.00E+00	4.32E+01
		K-40	1.18E+02	2.27E+01	4.59E+01
H3DW	6.63E+03	1.24E+02	1.72E+02		
256990	4/8/2013 - 4/22/2013	Be-7	<2.41E+00	0.00E+00	2.41E+00
		K-40	2.07E+01	2.15E+00	3.48E+00
		LLI-131	<5.42E-01	0.00E+00	5.42E-01
257816	4/29/2013 - 5/6/2013	Be-7	<3.56E+00	0.00E+00	3.56E+00
		K-40	1.40E+01	4.84E+00	6.57E+00
		LLI-131	<6.44E-01	0.00E+00	6.44E-01
258356	5/13/2013 - 5/20/2013	Be-7	<2.81E+00	0.00E+00	2.81E+00
		K-40	1.12E+01	2.54E+00	4.70E+00
		LLI-131	<6.14E-01	0.00E+00	6.14E-01
258361	4/29/2013 - 5/20/2013	Beta	1.82E+00	4.45E-01	1.38E+00
		Mn-54	<3.92E+00	0.00E+00	3.92E+00
		Co-58	<4.82E+00	0.00E+00	4.82E+00
		Fe-59	<8.13E+00	0.00E+00	8.13E+00
		Co-60	<5.88E+00	0.00E+00	5.88E+00
		Zn-65	<6.69E+00	0.00E+00	6.69E+00
		Zr-95	<8.34E+00	0.00E+00	8.34E+00
		Nb-95	<5.29E+00	0.00E+00	5.29E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<2.96E+00	0.00E+00	2.96E+00
		Cs-137	<4.41E+00	0.00E+00	4.41E+00
		BaLa-140	<7.70E+00	0.00E+00	7.70E+00
		Be-7	<3.60E+01	0.00E+00	3.60E+01
		K-40	7.35E+01	1.96E+01	4.10E+01
		H3DW	5.89E+03	1.20E+02	1.79E+02
		259180	5/27/2013 - 6/3/2013	Be-7	<1.90E+00
K-40	3.83E+01			1.86E+00	2.20E+00
LLI-131	<5.66E-01			0.00E+00	5.66E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260562	5/27/2013 - 6/18/2013	Beta	2.42E+00	4.69E-01	1.43E+00
		Mn-54	<5.34E+00	0.00E+00	5.34E+00
		Co-58	<5.17E+00	0.00E+00	5.17E+00
		Fe-59	<7.38E+00	0.00E+00	7.38E+00
		Co-60	<3.80E+00	0.00E+00	3.80E+00
		Zn-65	<8.80E+00	0.00E+00	8.80E+00
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<6.41E+00	0.00E+00	6.41E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<4.12E+00	0.00E+00	4.12E+00
		Cs-137	<4.76E+00	0.00E+00	4.76E+00
		BaLa-140	<7.29E+00	0.00E+00	7.29E+00
		Be-7	<4.49E+01	0.00E+00	4.49E+01
		K-40	1.93E+02	2.93E+01	3.83E+01
H3DW	5.97E+03	1.21E+02	1.77E+02		
260566	6/10/2013 - 6/18/2013	Be-7	<3.47E+00	0.00E+00	3.47E+00
		K-40	3.71E+01	4.50E+00	4.11E+00
		LLI-131	<6.07E-01	0.00E+00	6.07E-01
261854	6/24/2013 - 7/1/2013	Be-7	<3.25E+00	0.00E+00	3.25E+00
		K-40	1.73E+01	2.82E+00	4.17E+00
		LLI-131	<6.33E-01	0.00E+00	6.33E-01
263066	7/8/2013 - 7/15/2013	Be-7	<3.37E+00	0.00E+00	3.37E+00
		K-40	2.60E+01	2.87E+00	5.25E+00
		LLI-131	<6.07E-01	0.00E+00	6.07E-01
263070	6/24/2013 - 7/15/2013	Beta	3.25E+00	4.37E-01	1.24E+00
		Mn-54	<4.49E+00	0.00E+00	4.49E+00
		Co-58	<4.50E+00	0.00E+00	4.50E+00
		Fe-59	<8.39E+00	0.00E+00	8.39E+00
		Co-60	<5.27E+00	0.00E+00	5.27E+00
		Zn-65	<1.05E+01	0.00E+00	1.05E+01
		Zr-95	<7.05E+00	0.00E+00	7.05E+00
		Nb-95	<5.73E+00	0.00E+00	5.73E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.98E+00	0.00E+00	3.98E+00
		Cs-137	<4.19E+00	0.00E+00	4.19E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.63E+01	0.00E+00	3.63E+01
		K-40	2.41E+02	2.73E+01	3.66E+01
H3DW	5.62E+03	1.15E+02	1.68E+02		
264616	7/22/2013 - 7/29/2013	Be-7	<3.36E+00	0.00E+00	3.36E+00
		K-40	3.96E+01	3.43E+00	4.37E+00
		LLI-131	<6.19E-01	0.00E+00	6.19E-01
266206	8/5/2013 - 8/12/2013	Be-7	<2.85E+00	0.00E+00	2.85E+00
		K-40	2.38E+01	3.08E+00	4.59E+00
		LLI-131	<5.02E-01	0.00E+00	5.02E-01
266505	7/22/2013 - 8/12/2013	Beta	2.06E+00	4.61E-01	1.43E+00
		Mn-54	<4.97E+00	0.00E+00	4.97E+00
		Co-58	<5.22E+00	0.00E+00	5.22E+00
		Fe-59	<1.10E+01	0.00E+00	1.10E+01
		Co-60	<7.20E+00	0.00E+00	7.20E+00
		Zn-65	<1.17E+01	0.00E+00	1.17E+01
		Zr-95	<1.21E+01	0.00E+00	1.21E+01
		Nb-95	<6.02E+00	0.00E+00	6.02E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<5.13E+00	0.00E+00	5.13E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
266505	7/22/2013 - 8/12/2013	Cs-137	<5.19E+00	0.00E+00	5.19E+00
		BaLa-140	<9.13E+00	0.00E+00	9.13E+00
		Be-7	<5.62E+01	0.00E+00	5.62E+01
		K-40	1.00E+02	2.30E+01	4.79E+01
		H3DW	3.47E+03	9.58E+01	1.70E+02
267952	8/19/2013 - 8/26/2013	Be-7	<3.31E+00	0.00E+00	3.31E+00
		K-40	1.53E+01	3.23E+00	5.04E+00
		LLI-131	<5.81E-01	0.00E+00	5.81E-01
269888	9/3/2013 - 9/9/2013	Be-7	<2.73E+00	0.00E+00	2.73E+00
		K-40	1.16E+01	3.29E+00	4.07E+00
		LLI-131	<5.29E-01	0.00E+00	5.29E-01
269892	8/19/2013 - 9/9/2013	Beta	2.40E+00	4.36E-01	1.31E+00
		Mn-54	<4.84E+00	0.00E+00	4.84E+00
		Co-58	<4.04E+00	0.00E+00	4.04E+00
		Fe-59	<7.89E+00	0.00E+00	7.89E+00
		Co-60	<5.48E+00	0.00E+00	5.48E+00
		Zn-65	<1.02E+01	0.00E+00	1.02E+01
		Zr-95	<9.79E+00	0.00E+00	9.79E+00
		Nb-95	<6.06E+00	0.00E+00	6.06E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.85E+00	0.00E+00	3.85E+00
		Cs-137	<5.76E+00	0.00E+00	5.76E+00
		BaLa-140	<1.25E+01	0.00E+00	1.25E+01
		Be-7	<4.07E+01	0.00E+00	4.07E+01
		K-40	1.57E+02	3.18E+01	4.77E+01
		H3DW	4.11E+03	9.62E+01	1.51E+02
271641	9/16/2013 - 9/23/2013	Be-7	<4.67E+00	0.00E+00	4.67E+00
		K-40	1.21E+01	2.20E+00	6.74E+00
		LLI-131	<6.47E-01	0.00E+00	6.47E-01
272602	9/30/2013 - 10/7/2013	Be-7	<3.51E+00	0.00E+00	3.51E+00
		K-40	1.22E+01	3.76E+00	5.54E+00
		LLI-131	<6.49E-01	0.00E+00	6.49E-01
272606	9/16/2013 - 10/7/2013	Beta	2.99E+00	4.23E-01	1.21E+00
		Mn-54	<4.48E+00	0.00E+00	4.48E+00
		Co-58	<3.38E+00	0.00E+00	3.38E+00
		Fe-59	<9.55E+00	0.00E+00	9.55E+00
		Co-60	<5.09E+00	0.00E+00	5.09E+00
		Zn-65	<1.07E+01	0.00E+00	1.07E+01
		Zr-95	<8.02E+00	0.00E+00	8.02E+00
		Nb-95	<5.63E+00	0.00E+00	5.63E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.93E+00	0.00E+00	3.93E+00
		Cs-137	<3.74E+00	0.00E+00	3.74E+00
		BaLa-140	<9.01E+00	0.00E+00	9.01E+00
		Be-7	<4.20E+01	0.00E+00	4.20E+01
		K-40	1.04E+02	2.02E+01	4.44E+01
		H3DW	2.55E+03	8.22E+01	1.55E+02
274159	10/14/2013 - 10/21/2013	Be-7	<3.88E+00	0.00E+00	3.88E+00
		K-40	<1.10E+01	0.00E+00	1.10E+01
		LLI-131	<6.46E-01	0.00E+00	6.46E-01
274976	10/28/2013 - 11/4/2013	Be-7	<3.20E+00	0.00E+00	3.20E+00
		K-40	3.85E+01	4.35E+00	4.91E+00
		LLI-131	<6.49E-01	0.00E+00	6.49E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274980	10/14/2013 - 11/4/2013	Beta	2.74E+00	4.15E-01	1.20E+00
		Mn-54	<5.43E+00	0.00E+00	5.43E+00
		Co-58	<5.42E+00	0.00E+00	5.42E+00
		Fe-59	<1.28E+01	0.00E+00	1.28E+01
		Co-60	<6.01E+00	0.00E+00	6.01E+00
		Zn-65	<9.28E+00	0.00E+00	9.28E+00
		Zr-95	<9.74E+00	0.00E+00	9.74E+00
		Nb-95	<6.00E+00	0.00E+00	6.00E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<5.01E+00	0.00E+00	5.01E+00
		Cs-137	<5.64E+00	0.00E+00	5.64E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<4.54E+01	0.00E+00	4.54E+01
		K-40	1.67E+02	2.80E+01	5.42E+01
H3DW	2.70E+03	9.00E+01	1.76E+02		
277333	11/11/2013 - 11/18/2013	Be-7	<3.06E+00	0.00E+00	3.06E+00
		K-40	3.76E+01	4.23E+00	5.10E+00
		LLI-131	<6.02E-01	0.00E+00	6.02E-01
279169	11/25/2013 - 12/2/2013	Be-7	<2.75E+00	0.00E+00	2.75E+00
		K-40	1.10E+01	1.89E+00	3.67E+00
		LLI-131	<5.25E-01	0.00E+00	5.25E-01
279173	11/11/2013 - 12/2/2013	Beta	2.06E+00	4.15E-01	1.26E+00
		Mn-54	<5.16E+00	0.00E+00	5.16E+00
		Co-58	<4.98E+00	0.00E+00	4.98E+00
		Fe-59	<9.23E+00	0.00E+00	9.23E+00
		Co-60	<6.62E+00	0.00E+00	6.62E+00
		Zn-65	<1.32E+01	0.00E+00	1.32E+01
		Zr-95	<8.97E+00	0.00E+00	8.97E+00
		Nb-95	<6.94E+00	0.00E+00	6.94E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<4.67E+00	0.00E+00	4.67E+00
		Cs-137	<5.86E+00	0.00E+00	5.86E+00
		BaLa-140	<1.36E+01	0.00E+00	1.36E+01
		Be-7	<4.65E+01	0.00E+00	4.65E+01
		K-40	6.16E+01	1.71E+01	6.04E+01
H3DW	8.81E+03	1.43E+02	1.70E+02		
280452	12/9/2013 - 12/16/2013	Be-7	<3.23E+00	0.00E+00	3.23E+00
		K-40	4.98E+01	3.54E+00	4.21E+00
		LLI-131	<6.24E-01	0.00E+00	6.24E-01
280952	12/23/2013 - 12/30/2013	Be-7	<3.13E+00	0.00E+00	3.13E+00
		K-40	4.44E+01	3.24E+00	3.82E+00
		LLI-131	<5.74E-01	0.00E+00	5.74E-01
280953	12/9/2013 - 12/30/2013	Beta	2.37E+00	4.02E-01	1.18E+00
		Mn-54	<2.82E+00	0.00E+00	2.82E+00
		Co-58	<6.10E+00	0.00E+00	6.10E+00
		Fe-59	<1.29E+01	0.00E+00	1.29E+01
		Co-60	<6.48E+00	0.00E+00	6.48E+00
		Zn-65	<1.33E+01	0.00E+00	1.33E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<7.82E+00	0.00E+00	7.82E+00
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<4.38E+00	0.00E+00	4.38E+00
		Cs-137	<5.58E+00	0.00E+00	5.58E+00
		BaLa-140	<9.74E+00	0.00E+00	9.74E+00
		Be-7	<4.80E+01	0.00E+00	4.80E+01
		K-40	4.13E+01	2.42E+01	4.71E+01
H3DW	9.34E+03	1.59E+02	2.29E+02		



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 38 [ CONTROL - WSW @ 6.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251065	12/31/2012 - 1/14/2013	Be-7	<2.78E+00	0.00E+00	2.78E+00
		K-40	2.46E+01	3.01E+00	3.65E+00
		LLI-131	<6.13E-01	0.00E+00	6.13E-01
251832	1/14/2013 - 1/28/2013	Be-7	<2.67E+00	0.00E+00	2.67E+00
		K-40	5.79E+00	2.54E+00	5.39E+00
		LLI-131	<5.56E-01	0.00E+00	5.56E-01
251893	12/31/2012 - 1/28/2013	Beta	4.01E+00	4.67E-01	1.29E+00
		Mn-54	<3.11E+00	0.00E+00	3.11E+00
		Co-58	<4.44E+00	0.00E+00	4.44E+00
		Fe-59	<9.13E+00	0.00E+00	9.13E+00
		Co-60	<4.61E+00	0.00E+00	4.61E+00
		Zn-65	<6.94E+00	0.00E+00	6.94E+00
		Zr-95	<7.20E+00	0.00E+00	7.20E+00
		Nb-95	<4.66E+00	0.00E+00	4.66E+00
		I-131	<1.31E+01	0.00E+00	1.31E+01
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<4.36E+00	0.00E+00	4.36E+00
		BaLa-140	<9.49E+00	0.00E+00	9.49E+00
		Be-7	<3.10E+01	0.00E+00	3.10E+01
		K-40	1.88E+02	1.85E+01	3.04E+01
H3DWSW	<6.73E+00	0.00E+00	1.60E+02		
252915	1/28/2013 - 2/11/2013	Be-7	<3.51E+00	0.00E+00	3.51E+00
		K-40	2.85E+01	3.32E+00	4.72E+00
		LLI-131	<6.08E-01	0.00E+00	6.08E-01
254115	2/11/2013 - 2/25/2013	Be-7	<2.62E+00	0.00E+00	2.62E+00
		K-40	4.56E+01	2.37E+00	3.07E+00
		LLI-131	<6.18E-01	0.00E+00	6.18E-01
254119	1/28/2013 - 2/25/2013	Beta	2.87E+00	4.70E-01	1.41E+00
		Mn-54	<3.39E+00	0.00E+00	3.39E+00
		Co-58	<3.50E+00	0.00E+00	3.50E+00
		Fe-59	<8.40E+00	0.00E+00	8.40E+00
		Co-60	<4.59E+00	0.00E+00	4.59E+00
		Zn-65	<7.50E+00	0.00E+00	7.50E+00
		Zr-95	<6.77E+00	0.00E+00	6.77E+00
		Nb-95	<4.33E+00	0.00E+00	4.33E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<3.73E+00	0.00E+00	3.73E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<3.43E+01	0.00E+00	3.43E+01
		K-40	<6.29E+01	0.00E+00	6.29E+01
H3DWSW	<2.65E+01	0.00E+00	1.54E+02		
255081	2/25/2013 - 3/11/2013	Be-7	<2.58E+00	0.00E+00	2.58E+00
		K-40	8.65E+00	1.99E+00	4.25E+00
		LLI-131	<5.41E-01	0.00E+00	5.41E-01
255970	3/11/2013 - 3/25/2013	Be-7	<2.00E+00	0.00E+00	2.00E+00
		K-40	2.59E+01	1.59E+00	2.41E+00
		LLI-131	<6.46E-01	0.00E+00	6.46E-01
255974	2/25/2013 - 3/25/2013	Beta	3.18E+00	4.56E-01	1.32E+00
		Mn-54	<3.17E+00	0.00E+00	3.17E+00
		Co-58	<3.98E+00	0.00E+00	3.98E+00
		Fe-59	<7.74E+00	0.00E+00	7.74E+00
		Co-60	<4.45E+00	0.00E+00	4.45E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 38 [ CONTROL - WSW @ 6.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255974	2/25/2013 - 3/25/2013	Zn-65	<7.69E+00	0.00E+00	7.69E+00
		Zr-95	<7.20E+00	0.00E+00	7.20E+00
		Nb-95	<4.58E+00	0.00E+00	4.58E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<3.51E+00	0.00E+00	3.51E+00
		Cs-137	<3.81E+00	0.00E+00	3.81E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<3.09E+01	0.00E+00	3.09E+01
		K-40	1.10E+02	1.92E+01	3.68E+01
		H3DWSW	<-9.2E+01	0.00E+00	1.74E+02
		256454	3/25/2013 - 4/8/2013	Be-7	<2.74E+00
K-40	2.19E+01			2.99E+00	3.44E+00
LLI-131	<5.96E-01			0.00E+00	5.96E-01
256982	3/25/2013 - 4/22/2013	Beta	1.13E+00	4.27E-01	1.38E+00
		Mn-54	<2.77E+00	0.00E+00	2.77E+00
		Co-58	<2.41E+00	0.00E+00	2.41E+00
		Fe-59	<7.03E+00	0.00E+00	7.03E+00
		Co-60	<2.89E+00	0.00E+00	2.89E+00
		Zn-65	<6.54E+00	0.00E+00	6.54E+00
		Zr-95	<5.22E+00	0.00E+00	5.22E+00
		Nb-95	<3.94E+00	0.00E+00	3.94E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<2.32E+00	0.00E+00	2.32E+00
		Cs-137	<2.58E+00	0.00E+00	2.58E+00
		BaLa-140	<8.12E+00	0.00E+00	8.12E+00
		Be-7	<2.67E+01	0.00E+00	2.67E+01
		K-40	1.11E+02	1.50E+01	2.68E+01
H3DWSW	<4.15E+01	0.00E+00	1.72E+02		
256987	4/8/2013 - 4/22/2013	Be-7	<2.33E+00	0.00E+00	2.33E+00
		K-40	1.21E+01	1.68E+00	2.55E+00
		LLI-131	<5.55E-01	0.00E+00	5.55E-01
257817	4/22/2013 - 5/6/2013	Be-7	<2.31E+00	0.00E+00	2.31E+00
		K-40	1.52E+01	2.21E+00	2.85E+00
		LLI-131	<5.19E-01	0.00E+00	5.19E-01
258354	5/6/2013 - 5/20/2013	Be-7	<2.77E+00	0.00E+00	2.77E+00
		K-40	2.58E+01	2.51E+00	3.18E+00
		LLI-131	<6.42E-01	0.00E+00	6.42E-01
258358	4/22/2013 - 5/20/2013	Beta	2.29E+00	4.52E-01	1.38E+00
		Mn-54	<2.97E+00	0.00E+00	2.97E+00
		Co-58	<3.26E+00	0.00E+00	3.26E+00
		Fe-59	<8.57E+00	0.00E+00	8.57E+00
		Co-60	<3.73E+00	0.00E+00	3.73E+00
		Zn-65	<6.17E+00	0.00E+00	6.17E+00
		Zr-95	<6.90E+00	0.00E+00	6.90E+00
		Nb-95	<4.47E+00	0.00E+00	4.47E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<3.05E+00	0.00E+00	3.05E+00
		Cs-137	<3.17E+00	0.00E+00	3.17E+00
		BaLa-140	<7.79E+00	0.00E+00	7.79E+00
		Be-7	<3.53E+01	0.00E+00	3.53E+01
		K-40	1.44E+02	2.32E+01	2.77E+01
H3DWSW	<-2.6E+01	0.00E+00	1.40E+02		
259178	5/20/2013 - 6/3/2013	Be-7	<3.32E+00	0.00E+00	3.32E+00
		K-40	3.88E+01	3.71E+00	4.37E+00
		LLI-131	<6.47E-01	0.00E+00	6.47E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 38 [ CONTROL - WSW @ 6.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260559	5/20/2013 - 6/18/2013	Beta	2.86E+00	4.79E-01	1.43E+00
		Mn-54	<3.77E+00	0.00E+00	3.77E+00
		Co-58	<3.51E+00	0.00E+00	3.51E+00
		Fe-59	<7.29E+00	0.00E+00	7.29E+00
		Co-60	<3.55E+00	0.00E+00	3.55E+00
		Zn-65	<7.20E+00	0.00E+00	7.20E+00
		Zr-95	<6.94E+00	0.00E+00	6.94E+00
		Nb-95	<4.16E+00	0.00E+00	4.16E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.94E+00	0.00E+00	2.94E+00
		Cs-137	<3.20E+00	0.00E+00	3.20E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<2.98E+01	0.00E+00	2.98E+01
		K-40	<5.81E+01	0.00E+00	5.81E+01
H3DWSW	<-6.3E+01	0.00E+00	1.82E+02		
260564	6/3/2013 - 6/18/2013	Be-7	<2.23E+00	0.00E+00	2.23E+00
		K-40	4.21E+01	2.45E+00	2.84E+00
		LLI-131	<5.23E-01	0.00E+00	5.23E-01
261855	6/18/2013 - 7/1/2013	Be-7	<3.12E+00	0.00E+00	3.12E+00
		K-40	4.21E+01	3.19E+00	4.03E+00
		LLI-131	<6.47E-01	0.00E+00	6.47E-01
263069	7/1/2013 - 7/15/2013	Be-7	<2.71E+00	0.00E+00	2.71E+00
		K-40	3.87E+01	2.74E+00	3.15E+00
		LLI-131	<5.50E-01	0.00E+00	5.50E-01
263072	6/18/2013 - 7/15/2013	Beta	3.93E+00	4.51E-01	1.24E+00
		Mn-54	<3.72E+00	0.00E+00	3.72E+00
		Co-58	<3.51E+00	0.00E+00	3.51E+00
		Fe-59	<8.72E+00	0.00E+00	8.72E+00
		Co-60	<4.26E+00	0.00E+00	4.26E+00
		Zn-65	<7.84E+00	0.00E+00	7.84E+00
		Zr-95	<6.56E+00	0.00E+00	6.56E+00
		Nb-95	<4.15E+00	0.00E+00	4.15E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<3.57E+00	0.00E+00	3.57E+00
		Cs-137	<3.90E+00	0.00E+00	3.90E+00
		BaLa-140	<9.94E+00	0.00E+00	9.94E+00
		Be-7	<3.68E+01	0.00E+00	3.68E+01
		K-40	1.56E+02	2.20E+01	3.44E+01
H3DWSW	<6.07E+01	0.00E+00	1.74E+02		
264618	7/15/2013 - 7/29/2013	Be-7	<2.97E+00	0.00E+00	2.97E+00
		K-40	1.15E+01	2.57E+00	4.12E+00
		LLI-131	<6.48E-01	0.00E+00	6.48E-01
266281	7/29/2013 - 8/12/2013	Be-7	<2.74E+00	0.00E+00	2.74E+00
		K-40	4.56E+01	3.12E+00	3.29E+00
		LLI-131	<5.71E-01	0.00E+00	5.71E-01
266507	7/15/2013 - 8/12/2013	Beta	3.31E+00	4.84E-01	1.42E+00
		Mn-54	<4.17E+00	0.00E+00	4.17E+00
		Co-58	<4.07E+00	0.00E+00	4.07E+00
		Fe-59	<8.46E+00	0.00E+00	8.46E+00
		Co-60	<4.38E+00	0.00E+00	4.38E+00
		Zn-65	<8.05E+00	0.00E+00	8.05E+00
		Zr-95	<7.71E+00	0.00E+00	7.71E+00
		Nb-95	<6.12E+00	0.00E+00	6.12E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.85E+00	0.00E+00	3.85E+00





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 38 [ CONTROL - WSW @ 6.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
266507	7/15/2013 - 8/12/2013	Cs-137	<3.87E+00	0.00E+00	3.87E+00
		BaLa-140	<9.27E+00	0.00E+00	9.27E+00
		Be-7	<3.85E+01	0.00E+00	3.85E+01
		K-40	1.65E+02	2.72E+01	4.16E+01
		H3DWSW	<1.60E+01	0.00E+00	1.72E+02
267954	8/12/2013 - 8/26/2013	Be-7	<2.86E+00	0.00E+00	2.86E+00
		K-40	1.54E+01	2.38E+00	3.63E+00
		LLI-131	<6.26E-01	0.00E+00	6.26E-01
269890	8/26/2013 - 9/9/2013	Be-7	<2.66E+00	0.00E+00	2.66E+00
		K-40	1.74E+01	2.21E+00	3.64E+00
		LLI-131	<6.24E-01	0.00E+00	6.24E-01
269894	8/12/2013 - 9/9/2013	Beta	3.75E+00	4.69E-01	1.32E+00
		Mn-54	<4.36E+00	0.00E+00	4.36E+00
		Co-58	<4.55E+00	0.00E+00	4.55E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<7.43E+00	0.00E+00	7.43E+00
		Zn-65	<7.51E+00	0.00E+00	7.51E+00
		Zr-95	<7.70E+00	0.00E+00	7.70E+00
		Nb-95	<6.59E+00	0.00E+00	6.59E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.68E+00	0.00E+00	3.68E+00
		Cs-137	<4.31E+00	0.00E+00	4.31E+00
		BaLa-140	<1.37E+01	0.00E+00	1.37E+01
		Be-7	<4.37E+01	0.00E+00	4.37E+01
		K-40	7.47E+01	2.05E+01	3.97E+01
		H3DWSW	<8.99E+01	0.00E+00	1.51E+02
271643	9/9/2013 - 9/23/2013	Be-7	<2.83E+00	0.00E+00	2.83E+00
		K-40	1.30E+01	2.46E+00	4.26E+00
		LLI-131	<6.50E-01	0.00E+00	6.50E-01
272604	9/23/2013 - 10/7/2013	Be-7	<2.62E+00	0.00E+00	2.62E+00
		K-40	4.09E+01	3.04E+00	3.33E+00
		LLI-131	<5.76E-01	0.00E+00	5.76E-01
272608	9/9/2013 - 10/7/2013	Beta	5.30E+00	4.82E-01	1.24E+00
		Mn-54	<3.44E+00	0.00E+00	3.44E+00
		Co-58	<3.93E+00	0.00E+00	3.93E+00
		Fe-59	<7.33E+00	0.00E+00	7.33E+00
		Co-60	<4.60E+00	0.00E+00	4.60E+00
		Zn-65	<6.10E+00	0.00E+00	6.10E+00
		Zr-95	<6.97E+00	0.00E+00	6.97E+00
		Nb-95	<4.97E+00	0.00E+00	4.97E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<2.56E+00	0.00E+00	2.56E+00
		Cs-137	<3.86E+00	0.00E+00	3.86E+00
		BaLa-140	<6.97E+00	0.00E+00	6.97E+00
		Be-7	<3.53E+01	0.00E+00	3.53E+01
		K-40	6.02E+01	1.94E+01	3.40E+01
		H3DWSW	<6.0E+01	0.00E+00	1.55E+02
274160	10/7/2013 - 10/21/2013	Be-7	<2.74E+00	0.00E+00	2.74E+00
		K-40	4.20E+01	2.73E+00	3.33E+00
		LLI-131	<5.75E-01	0.00E+00	5.75E-01
274978	10/21/2013 - 11/4/2013	Be-7	<1.55E+00	0.00E+00	1.55E+00
		K-40	1.12E+01	1.26E+00	2.14E+00
		LLI-131	<5.07E-01	0.00E+00	5.07E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 38 [ CONTROL - WSW @ 6.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274982	10/7/2013 - 11/4/2013	Beta	4.62E+00	4.63E-01	1.23E+00
		Mn-54	<2.96E+00	0.00E+00	2.96E+00
		Co-58	<3.51E+00	0.00E+00	3.51E+00
		Fe-59	<7.23E+00	0.00E+00	7.23E+00
		Co-60	<4.82E+00	0.00E+00	4.82E+00
		Zn-65	<7.17E+00	0.00E+00	7.17E+00
		Zr-95	<5.77E+00	0.00E+00	5.77E+00
		Nb-95	<4.09E+00	0.00E+00	4.09E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<3.02E+00	0.00E+00	3.02E+00
		Cs-137	<3.58E+00	0.00E+00	3.58E+00
		BaLa-140	<7.84E+00	0.00E+00	7.84E+00
		Be-7	<3.32E+01	0.00E+00	3.32E+01
		K-40	9.91E+01	2.09E+01	3.78E+01
		H3DWSW	<1.61E+01	0.00E+00	1.74E+02
277331	11/4/2013 - 11/18/2013	Be-7	<2.63E+00	0.00E+00	2.63E+00
		K-40	1.18E+01	2.18E+00	3.30E+00
		LLI-131	<6.19E-01	0.00E+00	6.19E-01
279171	11/18/2013 - 12/2/2013	Be-7	<1.62E+00	0.00E+00	1.62E+00
		K-40	4.36E+01	1.83E+00	1.76E+00
		LLI-131	<6.50E-01	0.00E+00	6.50E-01
279175	11/4/2013 - 12/2/2013	Beta	5.21E+00	4.91E-01	1.30E+00
		Mn-54	<3.48E+00	0.00E+00	3.48E+00
		Co-58	<3.63E+00	0.00E+00	3.63E+00
		Fe-59	<7.90E+00	0.00E+00	7.90E+00
		Co-60	<3.43E+00	0.00E+00	3.43E+00
		Zn-65	<6.27E+00	0.00E+00	6.27E+00
		Zr-95	<7.33E+00	0.00E+00	7.33E+00
		Nb-95	<4.71E+00	0.00E+00	4.71E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.55E+00	0.00E+00	3.55E+00
		Cs-137	<3.88E+00	0.00E+00	3.88E+00
		BaLa-140	<9.42E+00	0.00E+00	9.42E+00
		Be-7	<3.59E+01	0.00E+00	3.59E+01
		K-40	1.87E+02	2.64E+01	3.47E+01
		H3DWSW	<3.65E+01	0.00E+00	1.71E+02
280454	12/2/2013 - 12/16/2013	Be-7	<2.86E+00	0.00E+00	2.86E+00
		K-40	2.28E+01	3.29E+00	3.84E+00
		LLI-131	<6.37E-01	0.00E+00	6.37E-01
280954	12/16/2013 - 12/30/2013	Be-7	<2.52E+00	0.00E+00	2.52E+00
		K-40	4.09E+01	2.86E+00	3.64E+00
		LLI-131	<6.49E-01	0.00E+00	6.49E-01
280955	12/2/2013 - 12/30/2013	Beta	4.35E+00	4.52E-01	1.21E+00
		Mn-54	<3.26E+00	0.00E+00	3.26E+00
		Co-58	<3.30E+00	0.00E+00	3.30E+00
		Fe-59	<7.85E+00	0.00E+00	7.85E+00
		Co-60	<3.77E+00	0.00E+00	3.77E+00
		Zn-65	<6.34E+00	0.00E+00	6.34E+00
		Zr-95	<6.03E+00	0.00E+00	6.03E+00
		Nb-95	<4.14E+00	0.00E+00	4.14E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.30E+00	0.00E+00	3.30E+00
		Cs-137	<3.11E+00	0.00E+00	3.11E+00
		BaLa-140	<8.55E+00	0.00E+00	8.55E+00
		Be-7	<3.25E+01	0.00E+00	3.25E+01
		K-40	2.11E+02	2.28E+01	2.68E+01
		H3DWSW	<1.2E+02	0.00E+00	2.28E+02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 40 [ INDICATOR - SSE @ 17.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251066	12/31/2012 - 1/14/2013	Be-7	<2.60E+00	0.00E+00	2.60E+00
		K-40	1.04E+01	3.73E+00	4.64E+00
		LLI-131	<6.17E-01	0.00E+00	6.17E-01
251833	1/14/2013 - 1/28/2013	Be-7	<2.28E+00	0.00E+00	2.28E+00
		K-40	1.37E+01	2.07E+00	3.78E+00
		LLI-131	<4.97E-01	0.00E+00	4.97E-01
251895	12/31/2012 - 1/28/2013	Beta	4.37E+00	4.73E-01	1.29E+00
		Mn-54	<3.60E+00	0.00E+00	3.60E+00
		Co-58	<3.63E+00	0.00E+00	3.63E+00
		Fe-59	<6.41E+00	0.00E+00	6.41E+00
		Co-60	<4.90E+00	0.00E+00	4.90E+00
		Zn-65	<7.48E+00	0.00E+00	7.48E+00
		Zr-95	<6.02E+00	0.00E+00	6.02E+00
		Nb-95	<4.02E+00	0.00E+00	4.02E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<3.60E+00	0.00E+00	3.60E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<2.69E+01	0.00E+00	2.69E+01
		K-40	4.99E+01	1.51E+01	3.67E+01
H3DWSW	<7.09E+01	0.00E+00	1.58E+02		
252916	1/28/2013 - 2/11/2013	Be-7	<3.76E+00	0.00E+00	3.76E+00
		K-40	8.16E+00	3.78E+00	5.70E+00
		LLI-131	<6.24E-01	0.00E+00	6.24E-01
254116	2/11/2013 - 2/25/2013	Be-7	<2.67E+00	0.00E+00	2.67E+00
		K-40	1.33E+01	2.34E+00	3.66E+00
		LLI-131	<6.36E-01	0.00E+00	6.36E-01
254120	1/28/2013 - 2/25/2013	Beta	3.09E+00	4.71E-01	1.39E+00
		Mn-54	<3.24E+00	0.00E+00	3.24E+00
		Co-58	<3.52E+00	0.00E+00	3.52E+00
		Fe-59	<7.39E+00	0.00E+00	7.39E+00
		Co-60	<4.72E+00	0.00E+00	4.72E+00
		Zn-65	<8.05E+00	0.00E+00	8.05E+00
		Zr-95	<6.27E+00	0.00E+00	6.27E+00
		Nb-95	<5.38E+00	0.00E+00	5.38E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<3.10E+00	0.00E+00	3.10E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<7.16E+00	0.00E+00	7.16E+00
		Be-7	<3.55E+01	0.00E+00	3.55E+01
		K-40	6.29E+01	1.65E+01	3.45E+01
H3DWSW	<4.39E+01	0.00E+00	1.53E+02		
255082	2/25/2013 - 3/11/2013	Be-7	<2.57E+00	0.00E+00	2.57E+00
		K-40	1.57E+01	2.06E+00	3.93E+00
		LLI-131	<5.68E-01	0.00E+00	5.68E-01
255971	3/11/2013 - 3/25/2013	Be-7	<1.55E+00	0.00E+00	1.55E+00
		K-40	3.80E+01	2.07E+00	1.96E+00
		LLI-131	<5.60E-01	0.00E+00	5.60E-01
255975	2/25/2013 - 3/25/2013	Beta	2.28E+00	4.31E-01	1.30E+00
		Mn-54	<9.02E-01	0.00E+00	9.02E-01
		Co-58	<1.03E+00	0.00E+00	1.03E+00
		Fe-59	<2.36E+00	0.00E+00	2.36E+00
		Co-60	<8.77E-01	0.00E+00	8.77E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 40 [ INDICATOR - SSE @ 17.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255975	2/25/2013 - 3/25/2013	Zn-65	<1.86E+00	0.00E+00	1.86E+00
		Zr-95	<2.08E+00	0.00E+00	2.08E+00
		Nb-95	<1.58E+00	0.00E+00	1.58E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<8.32E-01	0.00E+00	8.32E-01
		Cs-137	<8.74E-01	0.00E+00	8.74E-01
		BaLa-140	<4.57E+00	0.00E+00	4.57E+00
		Be-7	<1.07E+01	0.00E+00	1.07E+01
		K-40	1.59E+02	7.66E+00	8.09E+00
		H3DWSW	<-5.4E+01	0.00E+00	1.75E+02
		256455	3/25/2013 - 4/8/2013	Be-7	<2.67E+00
K-40	3.87E+01			2.54E+00	3.68E+00
LLI-131	<6.43E-01			0.00E+00	6.43E-01
256983	3/25/2013 - 4/22/2013	Beta	2.59E+00	4.58E-01	1.38E+00
		Mn-54	<3.65E+00	0.00E+00	3.65E+00
		Co-58	<4.61E+00	0.00E+00	4.61E+00
		Fe-59	<6.87E+00	0.00E+00	6.87E+00
		Co-60	<5.37E+00	0.00E+00	5.37E+00
		Zn-65	<1.04E+01	0.00E+00	1.04E+01
		Zr-95	<6.43E+00	0.00E+00	6.43E+00
		Nb-95	<4.62E+00	0.00E+00	4.62E+00
		I-131	<1.38E+01	0.00E+00	1.38E+01
		Cs-134	<3.33E+00	0.00E+00	3.33E+00
		Cs-137	<3.06E+00	0.00E+00	3.06E+00
		BaLa-140	<1.20E+01	0.00E+00	1.20E+01
		Be-7	<4.22E+01	0.00E+00	4.22E+01
		K-40	1.28E+02	2.00E+01	3.66E+01
H3DWSW	<5.05E+01	0.00E+00	1.71E+02		
256989	4/8/2013 - 4/22/2013	Be-7	<2.75E+00	0.00E+00	2.75E+00
		K-40	2.79E+01	2.21E+00	3.19E+00
		LLI-131	<6.44E-01	0.00E+00	6.44E-01
257819	4/22/2013 - 5/6/2013	Be-7	<2.40E+00	0.00E+00	2.40E+00
		K-40	4.74E+01	2.60E+00	3.24E+00
		LLI-131	<5.67E-01	0.00E+00	5.67E-01
258355	5/6/2013 - 5/20/2013	Be-7	<2.12E+00	0.00E+00	2.12E+00
		K-40	1.84E+01	1.83E+00	2.40E+00
		LLI-131	<5.28E-01	0.00E+00	5.28E-01
258359	4/22/2013 - 5/20/2013	Beta	2.25E+00	4.49E-01	1.37E+00
		Mn-54	<3.71E+00	0.00E+00	3.71E+00
		Co-58	<3.82E+00	0.00E+00	3.82E+00
		Fe-59	<9.29E+00	0.00E+00	9.29E+00
		Co-60	<3.69E+00	0.00E+00	3.69E+00
		Zn-65	<6.50E+00	0.00E+00	6.50E+00
		Zr-95	<7.10E+00	0.00E+00	7.10E+00
		Nb-95	<4.66E+00	0.00E+00	4.66E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<3.47E+00	0.00E+00	3.47E+00
		Cs-137	<3.78E+00	0.00E+00	3.78E+00
		BaLa-140	<8.31E+00	0.00E+00	8.31E+00
		Be-7	<3.46E+01	0.00E+00	3.46E+01
		K-40	<6.16E+01	0.00E+00	6.16E+01
		H3DWSW	<9.08E+00	0.00E+00	1.39E+02
259179	5/20/2013 - 6/3/2013	Be-7	<2.90E+00	0.00E+00	2.90E+00
		K-40	2.12E+01	2.72E+00	3.72E+00
		LLI-131	<6.42E-01	0.00E+00	6.42E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 40 [ INDICATOR - SSE @ 17.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260560	5/20/2013 - 6/18/2013	Beta	2.30E+00	4.65E-01	1.43E+00
		Mn-54	<4.22E+00	0.00E+00	4.22E+00
		Co-58	<4.44E+00	0.00E+00	4.44E+00
		Fe-59	<8.68E+00	0.00E+00	8.68E+00
		Co-60	<4.49E+00	0.00E+00	4.49E+00
		Zn-65	<8.57E+00	0.00E+00	8.57E+00
		Zr-95	<8.39E+00	0.00E+00	8.39E+00
		Nb-95	<5.18E+00	0.00E+00	5.18E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.23E+00	0.00E+00	3.23E+00
		Cs-137	<4.06E+00	0.00E+00	4.06E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<3.32E+01	0.00E+00	3.32E+01
		K-40	5.84E+01	1.31E+01	2.62E+01
H3DWSW	<-3.8E+01	0.00E+00	1.80E+02		
260565	6/3/2013 - 6/18/2013	Be-7	<2.92E+00	0.00E+00	2.92E+00
		K-40	1.56E+01	3.01E+00	3.62E+00
		LLI-131	<5.84E-01	0.00E+00	5.84E-01
261856	6/18/2013 - 7/1/2013	Be-7	<3.01E+00	0.00E+00	3.01E+00
		K-40	2.88E+01	2.88E+00	4.18E+00
		LLI-131	<5.94E-01	0.00E+00	5.94E-01
263068	7/1/2013 - 7/15/2013	Be-7	<2.66E+00	0.00E+00	2.66E+00
		K-40	2.67E+01	3.28E+00	3.67E+00
		LLI-131	<6.47E-01	0.00E+00	6.47E-01
263073	6/18/2013 - 7/15/2013	Beta	3.13E+00	4.34E-01	1.24E+00
		Mn-54	<1.85E+00	0.00E+00	1.85E+00
		Co-58	<2.20E+00	0.00E+00	2.20E+00
		Fe-59	<4.94E+00	0.00E+00	4.94E+00
		Co-60	<2.19E+00	0.00E+00	2.19E+00
		Zn-65	<4.51E+00	0.00E+00	4.51E+00
		Zr-95	<3.82E+00	0.00E+00	3.82E+00
		Nb-95	<2.96E+00	0.00E+00	2.96E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<1.77E+00	0.00E+00	1.77E+00
		Cs-137	<1.97E+00	0.00E+00	1.97E+00
		BaLa-140	<7.69E+00	0.00E+00	7.69E+00
		Be-7	<1.90E+01	0.00E+00	1.90E+01
		K-40	9.47E+01	1.59E+01	1.90E+01
H3DWSW	<8.60E+01	0.00E+00	1.74E+02		
264619	7/15/2013 - 7/29/2013	Be-7	<3.40E+00	0.00E+00	3.40E+00
		K-40	1.84E+01	2.97E+00	4.84E+00
		LLI-131	<6.15E-01	0.00E+00	6.15E-01
266286	7/29/2013 - 8/12/2013	Be-7	<2.54E+00	0.00E+00	2.54E+00
		K-40	1.04E+01	2.00E+00	3.31E+00
		LLI-131	<5.48E-01	0.00E+00	5.48E-01
266508	7/15/2013 - 8/12/2013	Beta	2.88E+00	4.79E-01	1.43E+00
		Mn-54	<3.84E+00	0.00E+00	3.84E+00
		Co-58	<4.54E+00	0.00E+00	4.54E+00
		Fe-59	<9.97E+00	0.00E+00	9.97E+00
		Co-60	<4.00E+00	0.00E+00	4.00E+00
		Zn-65	<8.10E+00	0.00E+00	8.10E+00
		Zr-95	<8.38E+00	0.00E+00	8.38E+00
		Nb-95	<3.41E+00	0.00E+00	3.41E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<3.26E+00	0.00E+00	3.26E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 40 [ INDICATOR - SSE @ 17.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
266508	7/15/2013 - 8/12/2013	Cs-137	<4.23E+00	0.00E+00	4.23E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<3.69E+01	0.00E+00	3.69E+01
		K-40	1.05E+02	1.64E+01	2.70E+01
		H3DWSW	<2.75E+01	0.00E+00	1.73E+02
267955	8/12/2013 - 8/26/2013	Be-7	<2.42E+00	0.00E+00	2.42E+00
		K-40	4.09E+01	3.06E+00	3.26E+00
		LLI-131	<5.74E-01	0.00E+00	5.74E-01
269891	8/26/2013 - 9/9/2013	Be-7	<3.00E+00	0.00E+00	3.00E+00
		K-40	3.68E+01	2.90E+00	3.67E+00
		LLI-131	<6.46E-01	0.00E+00	6.46E-01
269895	8/12/2013 - 9/9/2013	Beta	3.48E+00	4.62E-01	1.32E+00
		Mn-54	<3.33E+00	0.00E+00	3.33E+00
		Co-58	<3.29E+00	0.00E+00	3.29E+00
		Fe-59	<7.76E+00	0.00E+00	7.76E+00
		Co-60	<3.61E+00	0.00E+00	3.61E+00
		Zn-65	<5.95E+00	0.00E+00	5.95E+00
		Zr-95	<6.50E+00	0.00E+00	6.50E+00
		Nb-95	<3.85E+00	0.00E+00	3.85E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.98E+00	0.00E+00	2.98E+00
		Cs-137	<3.19E+00	0.00E+00	3.19E+00
		BaLa-140	<7.02E+00	0.00E+00	7.02E+00
		Be-7	<3.18E+01	0.00E+00	3.18E+01
		K-40	1.77E+02	2.01E+01	2.95E+01
		H3DWSW	<8.75E+01	0.00E+00	1.50E+02
271644	9/9/2013 - 9/23/2013	Be-7	<2.91E+00	0.00E+00	2.91E+00
		K-40	1.36E+01	2.51E+00	3.75E+00
		LLI-131	<6.11E-01	0.00E+00	6.11E-01
272605	9/23/2013 - 10/7/2013	Be-7	<2.80E+00	0.00E+00	2.80E+00
		K-40	1.04E+01	2.41E+00	3.88E+00
		LLI-131	<6.24E-01	0.00E+00	6.24E-01
272609	9/9/2013 - 10/7/2013	Beta	5.15E+00	4.76E-01	1.24E+00
		Mn-54	<3.26E+00	0.00E+00	3.26E+00
		Co-58	<3.56E+00	0.00E+00	3.56E+00
		Fe-59	<9.95E+00	0.00E+00	9.95E+00
		Co-60	<3.98E+00	0.00E+00	3.98E+00
		Zn-65	<7.12E+00	0.00E+00	7.12E+00
		Zr-95	<6.33E+00	0.00E+00	6.33E+00
		Nb-95	<4.77E+00	0.00E+00	4.77E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.52E+00	0.00E+00	3.52E+00
		Cs-137	<3.35E+00	0.00E+00	3.35E+00
		BaLa-140	<9.91E+00	0.00E+00	9.91E+00
		Be-7	<3.19E+01	0.00E+00	3.19E+01
		K-40	1.60E+02	3.49E+01	3.28E+01
		H3DWSW	<6.4E+01	0.00E+00	1.56E+02
274161	10/7/2013 - 10/21/2013	Be-7	<3.28E+00	0.00E+00	3.28E+00
		K-40	1.07E+01	2.42E+00	4.63E+00
		LLI-131	<6.48E-01	0.00E+00	6.48E-01
274979	10/21/2013 - 11/4/2013	Be-7	<2.58E+00	0.00E+00	2.58E+00
		K-40	1.39E+01	2.14E+00	3.88E+00
		LLI-131	<6.46E-01	0.00E+00	6.46E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: DW / SW Concentration (Activity): pCi/l

Sample Point 40 [ INDICATOR - SSE @ 17.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274983	10/7/2013 - 11/4/2013	Beta	4.30E+00	4.55E-01	1.22E+00
		Mn-54	<3.00E+00	0.00E+00	3.00E+00
		Co-58	<3.38E+00	0.00E+00	3.38E+00
		Fe-59	<7.66E+00	0.00E+00	7.66E+00
		Co-60	<2.68E+00	0.00E+00	2.68E+00
		Zn-65	<6.93E+00	0.00E+00	6.93E+00
		Zr-95	<6.57E+00	0.00E+00	6.57E+00
		Nb-95	<4.43E+00	0.00E+00	4.43E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.51E+00	0.00E+00	2.51E+00
		Cs-137	<3.17E+00	0.00E+00	3.17E+00
		BaLa-140	<8.13E+00	0.00E+00	8.13E+00
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	1.81E+02	2.54E+01	2.93E+01
		H3DWSW	<1.88E+01	0.00E+00	1.78E+02
277332	11/4/2013 - 11/18/2013	Be-7	<2.41E+00	0.00E+00	2.41E+00
		K-40	4.36E+01	2.76E+00	3.02E+00
		LLI-131	<5.59E-01	0.00E+00	5.59E-01
279172	11/18/2013 - 12/2/2013	Be-7	<2.75E+00	0.00E+00	2.75E+00
		K-40	1.14E+01	2.41E+00	3.92E+00
		LLI-131	<5.76E-01	0.00E+00	5.76E-01
279176	11/4/2013 - 12/2/2013	Beta	4.20E+00	4.67E-01	1.28E+00
		Mn-54	<4.50E+00	0.00E+00	4.50E+00
		Co-58	<5.05E+00	0.00E+00	5.05E+00
		Fe-59	<9.65E+00	0.00E+00	9.65E+00
		Co-60	<5.07E+00	0.00E+00	5.07E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<7.41E+00	0.00E+00	7.41E+00
		Nb-95	<6.04E+00	0.00E+00	6.04E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.92E+00	0.00E+00	3.92E+00
		Cs-137	<4.31E+00	0.00E+00	4.31E+00
		BaLa-140	<1.41E+01	0.00E+00	1.41E+01
		Be-7	<4.47E+01	0.00E+00	4.47E+01
		K-40	6.37E+01	2.24E+01	3.96E+01
		H3DWSW	<9.61E+00	0.00E+00	1.69E+02
280455	12/2/2013 - 12/16/2013	Be-7	<2.15E+00	0.00E+00	2.15E+00
		K-40	1.27E+01	1.82E+00	3.04E+00
		LLI-131	<5.25E-01	0.00E+00	5.25E-01
280956	12/16/2013 - 12/30/2013	Be-7	<2.55E+00	0.00E+00	2.55E+00
		K-40	1.32E+01	1.74E+00	3.05E+00
		LLI-131	<5.81E-01	0.00E+00	5.81E-01
280957	12/2/2013 - 12/30/2013	Beta	3.84E+00	4.39E-01	1.20E+00
		Mn-54	<3.85E+00	0.00E+00	3.85E+00
		Co-58	<3.50E+00	0.00E+00	3.50E+00
		Fe-59	<8.43E+00	0.00E+00	8.43E+00
		Co-60	<3.61E+00	0.00E+00	3.61E+00
		Zn-65	<7.60E+00	0.00E+00	7.60E+00
		Zr-95	<7.06E+00	0.00E+00	7.06E+00
		Nb-95	<4.69E+00	0.00E+00	4.69E+00
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<3.15E+00	0.00E+00	3.15E+00
		Cs-137	<3.12E+00	0.00E+00	3.12E+00
		BaLa-140	<8.63E+00	0.00E+00	8.63E+00
		Be-7	<3.23E+01	0.00E+00	3.23E+01
		K-40	1.75E+02	2.59E+01	3.55E+01
		H3DWSW	<1.4E+02	0.00E+00	2.29E+02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 44 [ INDICATOR - -- @ 0 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	
258491	5/22/2013 - 5/22/2013					FREESWIM	SUNFISH
		Mn-54	<1.53E+01	0.00E+00	1.53E+01		
		Co-58	<1.84E+01	0.00E+00	1.84E+01		
		Fe-59	<3.83E+01	0.00E+00	3.83E+01		
		Co-60	<2.07E+01	0.00E+00	2.07E+01		
		Zn-65	<4.82E+01	0.00E+00	4.82E+01		
		Nb-95	<1.78E+01	0.00E+00	1.78E+01		
		I-131	<1.55E+01	0.00E+00	1.55E+01		
		Cs-134	<1.29E+01	0.00E+00	1.29E+01		
		Cs-137	<1.91E+01	0.00E+00	1.91E+01		
		Be-7	<7.87E+01	0.00E+00	7.87E+01		
		K-40	2.90E+03	2.45E+02	2.37E+02		
		Ag-110M	<1.60E+01	0.00E+00	1.60E+01		
		Sb-122	<2.63E+01	0.00E+00	2.63E+01		
		Sb-125	<3.73E+01	0.00E+00	3.73E+01		
258492	5/22/2013 - 5/22/2013					FREESWIM	LRGMTHBASS
		Mn-54	<1.33E+01	0.00E+00	1.33E+01		
		Co-58	<1.36E+01	0.00E+00	1.36E+01		
		Fe-59	<2.73E+01	0.00E+00	2.73E+01		
		Co-60	<1.64E+01	0.00E+00	1.64E+01		
		Zn-65	<3.39E+01	0.00E+00	3.39E+01		
		Nb-95	<1.36E+01	0.00E+00	1.36E+01		
		I-131	<1.27E+01	0.00E+00	1.27E+01		
		Cs-134	<1.20E+01	0.00E+00	1.20E+01		
		Cs-137	<1.68E+01	0.00E+00	1.68E+01		
		Be-7	<1.03E+02	0.00E+00	1.03E+02		
		K-40	3.65E+03	2.02E+02	1.68E+02		
		Ag-110M	<1.36E+01	0.00E+00	1.36E+01		
		Sb-122	<2.48E+01	0.00E+00	2.48E+01		
		Sb-125	<2.99E+01	0.00E+00	2.99E+01		
258493	5/22/2013 - 5/22/2013					BOTMFEEDER	CATFISH
		Mn-54	<1.95E+01	0.00E+00	1.95E+01		
		Co-58	<1.99E+01	0.00E+00	1.99E+01		
		Fe-59	<5.07E+01	0.00E+00	5.07E+01		
		Co-60	<2.88E+01	0.00E+00	2.88E+01		
		Zn-65	<5.79E+01	0.00E+00	5.79E+01		
		Nb-95	<2.56E+01	0.00E+00	2.56E+01		
		I-131	<1.82E+01	0.00E+00	1.82E+01		
		Cs-134	<1.76E+01	0.00E+00	1.76E+01		
		Cs-137	<2.04E+01	0.00E+00	2.04E+01		
		Be-7	<1.67E+02	0.00E+00	1.67E+02		
		K-40	3.22E+03	2.75E+02	2.61E+02		
		Ag-110M	<1.87E+01	0.00E+00	1.87E+01		
		Sb-122	<3.06E+01	0.00E+00	3.06E+01		
		Sb-125	<3.45E+01	0.00E+00	3.45E+01		
276899	11/5/2013 - 11/5/2013					FREESWIM	LRGMTHBASS
		Mn-54	<1.51E+01	0.00E+00	1.51E+01		
		Co-58	<1.17E+01	0.00E+00	1.17E+01		
		Fe-59	<3.33E+01	0.00E+00	3.33E+01		
		Co-60	<1.71E+01	0.00E+00	1.71E+01		
		Zn-65	<3.36E+01	0.00E+00	3.36E+01		
		Nb-95	<2.01E+01	0.00E+00	2.01E+01		
		I-131	<2.82E+01	0.00E+00	2.82E+01		
		Cs-134	<1.36E+01	0.00E+00	1.36E+01		
		Cs-137	<1.87E+01	0.00E+00	1.87E+01		
		Be-7	<1.19E+02	0.00E+00	1.19E+02		
		K-40	3.29E+03	1.90E+02	1.46E+02		
		Ag-110M	<1.46E+01	0.00E+00	1.46E+01		
		Sb-122	<1.59E+02	0.00E+00	1.59E+02		
		Sb-125	<4.27E+01	0.00E+00	4.27E+01		
276900	11/5/2013 - 11/5/2013					FREESWIM	SUNFISH
		Mn-54	<2.28E+01	0.00E+00	2.28E+01		
		Co-58	<2.42E+01	0.00E+00	2.42E+01		
		Fe-59	<5.92E+01	0.00E+00	5.92E+01		
		Co-60	<2.10E+01	0.00E+00	2.10E+01		
		Zn-65	<5.19E+01	0.00E+00	5.19E+01		





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 44 [ INDICATOR - -- @ 0 miles ]

Sample ID:	276900	Sample Dates:	11/5/2013 - 11/5/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	FREESWIM	SUNFISH
				Nb-95	<2.35E+01	0.00E+00	2.35E+01			
				I-131	<3.85E+01	0.00E+00	3.85E+01			
				Cs-134	<2.14E+01	0.00E+00	2.14E+01			
				Cs-137	<2.25E+01	0.00E+00	2.25E+01			
				Be-7	<1.84E+02	0.00E+00	1.84E+02			
				K-40	3.74E+03	2.54E+02	2.29E+02			
				Ag-110M	<1.95E+01	0.00E+00	1.95E+01			
				Sb-122	<2.63E+02	0.00E+00	2.63E+02			
				Sb-125	<6.29E+01	0.00E+00	6.29E+01			

Sample ID:	276901	Sample Dates:	11/5/2013 - 11/5/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	BOTMFEEDER	CATFISH
				Mn-54	<2.02E+01	0.00E+00	2.02E+01			
				Co-58	<2.19E+01	0.00E+00	2.19E+01			
				Fe-59	<5.04E+01	0.00E+00	5.04E+01			
				Co-60	<2.92E+01	0.00E+00	2.92E+01			
				Zn-65	<6.52E+01	0.00E+00	6.52E+01			
				Nb-95	<2.52E+01	0.00E+00	2.52E+01			
				I-131	<3.15E+01	0.00E+00	3.15E+01			
				Cs-134	<2.12E+01	0.00E+00	2.12E+01			
				Cs-137	<1.22E+01	0.00E+00	1.22E+01			
				Be-7	<1.63E+02	0.00E+00	1.63E+02			
				K-40	3.11E+03	2.57E+02	1.98E+02			
				Ag-110M	<2.15E+01	0.00E+00	2.15E+01			
				Sb-122	<1.38E+02	0.00E+00	1.38E+02			
				Sb-125	<4.90E+01	0.00E+00	4.90E+01			

Sample Point 45 [ CONTROL - -- @ 0 miles ]

Sample ID:	258488	Sample Dates:	5/21/2013 - 5/21/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	FREESWIM	SUNFISH
				Mn-54	<1.38E+01	0.00E+00	1.38E+01			
				Co-58	<1.27E+01	0.00E+00	1.27E+01			
				Fe-59	<2.47E+01	0.00E+00	2.47E+01			
				Co-60	<1.39E+01	0.00E+00	1.39E+01			
				Zn-65	<3.00E+01	0.00E+00	3.00E+01			
				Nb-95	<1.30E+01	0.00E+00	1.30E+01			
				I-131	<1.36E+01	0.00E+00	1.36E+01			
				Cs-134	<1.27E+01	0.00E+00	1.27E+01			
				Cs-137	<1.26E+01	0.00E+00	1.26E+01			
				Be-7	7.61E+01	4.16E+01	7.15E+01			
				K-40	2.88E+03	1.75E+02	1.28E+02			
				Ag-110M	<1.25E+01	0.00E+00	1.25E+01			
				Sb-122	<3.60E+01	0.00E+00	3.60E+01			
				Sb-125	<2.95E+01	0.00E+00	2.95E+01			

Sample ID:	258489	Sample Dates:	5/21/2013 - 5/21/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	FREESWIM	LRGMTHBASS
				Mn-54	<1.63E+01	0.00E+00	1.63E+01			
				Co-58	<1.53E+01	0.00E+00	1.53E+01			
				Fe-59	<4.01E+01	0.00E+00	4.01E+01			
				Co-60	<2.16E+01	0.00E+00	2.16E+01			
				Zn-65	<3.80E+01	0.00E+00	3.80E+01			
				Nb-95	<1.59E+01	0.00E+00	1.59E+01			
				I-131	<1.38E+01	0.00E+00	1.38E+01			
				Cs-134	<1.23E+01	0.00E+00	1.23E+01			
				Cs-137	<1.66E+01	0.00E+00	1.66E+01			
				Be-7	<9.92E+01	0.00E+00	9.92E+01			
				K-40	2.59E+03	2.25E+02	2.04E+02			
				Ag-110M	<1.49E+01	0.00E+00	1.49E+01			
				Sb-122	<3.89E+01	0.00E+00	3.89E+01			
				Sb-125	<3.52E+01	0.00E+00	3.52E+01			

Sample ID:	258490	Sample Dates:	5/21/2013 - 5/21/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	BOTMFEEDER	CATFISH
				Mn-54	<1.69E+01	0.00E+00	1.69E+01			
				Co-58	<1.86E+01	0.00E+00	1.86E+01			
				Fe-59	<4.60E+01	0.00E+00	4.60E+01			
				Co-60	<2.68E+01	0.00E+00	2.68E+01			
				Zn-65	<3.96E+01	0.00E+00	3.96E+01			
				Nb-95	<1.55E+01	0.00E+00	1.55E+01			
				I-131	<1.28E+01	0.00E+00	1.28E+01			
				Cs-134	<1.58E+01	0.00E+00	1.58E+01			



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg

Sample Point 45 [ CONTROL - -- @ 0 miles ]

Sample ID:	258490	Sample Dates:	5/21/2013 - 5/21/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	BOTMFEEDER CATFISH
				Cs-137	<1.52E+01	0.00E+00	1.52E+01		
				Be-7	<1.17E+02	0.00E+00	1.17E+02		
				K-40	2.65E+03	2.22E+02	1.54E+02		
				Ag-110M	<1.22E+01	0.00E+00	1.22E+01		
				Sb-122	<4.01E+01	0.00E+00	4.01E+01		
				Sb-125	<4.21E+01	0.00E+00	4.21E+01		

Sample ID:	276896	Sample Dates:	11/5/2013 - 11/5/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	FREESWIM LRGMTHBASS
				Mn-54	<2.14E+01	0.00E+00	2.14E+01		
				Co-58	<2.03E+01	0.00E+00	2.03E+01		
				Fe-59	<3.92E+01	0.00E+00	3.92E+01		
				Co-60	<2.97E+01	0.00E+00	2.97E+01		
				Zn-65	<4.83E+01	0.00E+00	4.83E+01		
				Nb-95	<2.35E+01	0.00E+00	2.35E+01		
				I-131	<3.39E+01	0.00E+00	3.39E+01		
				Cs-134	<2.00E+01	0.00E+00	2.00E+01		
				Cs-137	<1.96E+01	0.00E+00	1.96E+01		
				Be-7	<1.55E+02	0.00E+00	1.55E+02		
				K-40	3.21E+03	2.48E+02	2.26E+02		
				Ag-110M	<1.67E+01	0.00E+00	1.67E+01		
				Sb-122	<2.32E+02	0.00E+00	2.32E+02		
				Sb-125	<4.80E+01	0.00E+00	4.80E+01		

Sample ID:	276897	Sample Dates:	11/5/2013 - 11/5/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	FREESWIM SUNFISH
				Mn-54	<2.84E+01	0.00E+00	2.84E+01		
				Co-58	<2.34E+01	0.00E+00	2.34E+01		
				Fe-59	<5.88E+01	0.00E+00	5.88E+01		
				Co-60	<2.76E+01	0.00E+00	2.76E+01		
				Zn-65	<5.79E+01	0.00E+00	5.79E+01		
				Nb-95	<3.02E+01	0.00E+00	3.02E+01		
				I-131	<5.08E+01	0.00E+00	5.08E+01		
				Cs-134	<2.95E+01	0.00E+00	2.95E+01		
				Cs-137	<2.27E+01	0.00E+00	2.27E+01		
				Be-7	<2.17E+02	0.00E+00	2.17E+02		
				K-40	1.25E+03	2.40E+02	2.30E+02		
				Ag-110M	<2.48E+01	0.00E+00	2.48E+01		
				Sb-122	<3.52E+02	0.00E+00	3.52E+02		
				Sb-125	<7.56E+01	0.00E+00	7.56E+01		

Sample ID:	276898	Sample Dates:	11/5/2013 - 11/5/2013	Nuclide	Activity	1 Sigma Error	LLD	Subtype:	BOTMFEEDER CATFISH
				Mn-54	<1.78E+01	0.00E+00	1.78E+01		
				Co-58	<1.58E+01	0.00E+00	1.58E+01		
				Fe-59	<3.96E+01	0.00E+00	3.96E+01		
				Co-60	<1.25E+01	0.00E+00	1.25E+01		
				Zn-65	<4.33E+01	0.00E+00	4.33E+01		
				Nb-95	<1.69E+01	0.00E+00	1.69E+01		
				I-131	<3.18E+01	0.00E+00	3.18E+01		
				Cs-134	<1.30E+01	0.00E+00	1.30E+01		
				Cs-137	<1.56E+01	0.00E+00	1.56E+01		
				Be-7	<1.50E+02	0.00E+00	1.50E+02		
				K-40	3.56E+03	2.10E+02	1.69E+02		
				Ag-110M	<1.47E+01	0.00E+00	1.47E+01		
				Sb-122	<1.84E+02	0.00E+00	1.84E+02		
				Sb-125	<4.34E+01	0.00E+00	4.34E+01		

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 57 [ INDICATOR - SSW @ 0.4 miles ]

Sample ID:	253771	Sample Dates:	2/19/2013 - 2/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.75E+00	0.00E+00	7.75E+00
				Co-58	<5.55E+00	0.00E+00	5.55E+00
				Fe-59	<1.12E+01	0.00E+00	1.12E+01
				Co-60	<8.50E+00	0.00E+00	8.50E+00
				Zn-65	<1.94E+01	0.00E+00	1.94E+01
				Zr-95	<1.14E+01	0.00E+00	1.14E+01
				Nb-95	<7.86E+00	0.00E+00	7.86E+00
				I-131	<8.19E+00	0.00E+00	8.19E+00
				Cs-134	<5.85E+00	0.00E+00	5.85E+00



## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 57 [ INDICATOR - SSW @ 0.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253771	2/19/2013 - 2/19/2013	Cs-137	<8.50E+00	0.00E+00	8.50E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<5.85E+01	0.00E+00	5.85E+01
		K-40	1.28E+02	3.95E+01	8.24E+01
		H3GW	<-4.4E+01	0.00E+00	1.83E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257792	5/14/2013 - 5/14/2013	Mn-54	<9.01E+00	0.00E+00	9.01E+00
		Co-58	<8.47E+00	0.00E+00	8.47E+00
		Fe-59	<1.96E+01	0.00E+00	1.96E+01
		Co-60	<1.09E+01	0.00E+00	1.09E+01
		Zn-65	<1.47E+01	0.00E+00	1.47E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<7.94E+00	0.00E+00	7.94E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<7.00E+00	0.00E+00	7.00E+00
		Cs-137	<9.62E+00	0.00E+00	9.62E+00
		BaLa-140	<1.37E+01	0.00E+00	1.37E+01
		Be-7	8.36E+01	4.41E+01	6.88E+01
		K-40	<1.66E+02	0.00E+00	1.66E+02
H3GW	<4.50E+01	0.00E+00	1.78E+02		

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265066	8/19/2013 - 8/19/2013	Mn-54	<7.86E+00	0.00E+00	7.86E+00
		Co-58	<6.20E+00	0.00E+00	6.20E+00
		Fe-59	<1.61E+01	0.00E+00	1.61E+01
		Co-60	<1.16E+01	0.00E+00	1.16E+01
		Zn-65	<1.46E+01	0.00E+00	1.46E+01
		Zr-95	<1.33E+01	0.00E+00	1.33E+01
		Nb-95	<7.35E+00	0.00E+00	7.35E+00
		I-131	<7.00E+00	0.00E+00	7.00E+00
		Cs-134	<6.50E+00	0.00E+00	6.50E+00
		Cs-137	<6.39E+00	0.00E+00	6.39E+00
		BaLa-140	<9.90E+00	0.00E+00	9.90E+00
		Be-7	<5.55E+01	0.00E+00	5.55E+01
		K-40	1.87E+02	3.92E+01	8.14E+01
		H3GW	<1.64E+01	0.00E+00	1.73E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275153	11/18/2013 - 11/18/2013	Mn-54	<7.29E+00	0.00E+00	7.29E+00
		Co-58	<6.53E+00	0.00E+00	6.53E+00
		Fe-59	<1.27E+01	0.00E+00	1.27E+01
		Co-60	<7.09E+00	0.00E+00	7.09E+00
		Zn-65	<1.48E+01	0.00E+00	1.48E+01
		Zr-95	<1.22E+01	0.00E+00	1.22E+01
		Nb-95	<9.06E+00	0.00E+00	9.06E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<6.13E+00	0.00E+00	6.13E+00
		Cs-137	<6.33E+00	0.00E+00	6.33E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Be-7	<5.41E+01	0.00E+00	5.41E+01
		K-40	2.67E+02	3.95E+01	6.05E+01
		H3GW	<4.92E+00	0.00E+00	1.72E+02

Sample Point 59 [ INDICATOR - NNE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253772	2/19/2013 - 2/19/2013	Mn-54	<6.64E+00	0.00E+00	6.64E+00
		Co-58	<6.32E+00	0.00E+00	6.32E+00
		Fe-59	<1.65E+01	0.00E+00	1.65E+01
		Co-60	<6.36E+00	0.00E+00	6.36E+00
		Zn-65	<1.76E+01	0.00E+00	1.76E+01
		Zr-95	<1.16E+01	0.00E+00	1.16E+01
		Nb-95	<7.33E+00	0.00E+00	7.33E+00
		I-131	<8.41E+00	0.00E+00	8.41E+00
		Cs-134	<6.72E+00	0.00E+00	6.72E+00
		Cs-137	<7.15E+00	0.00E+00	7.15E+00
		BaLa-140	<8.29E+00	0.00E+00	8.29E+00
		Be-7	<5.42E+01	0.00E+00	5.42E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 59 [ INDICATOR - NNE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253772	2/19/2013 - 2/19/2013	K-40	3.76E+02	4.53E+01	5.42E+01
		H3GW	<-1.5E+02	0.00E+00	1.83E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257794	5/23/2013 - 5/23/2013	Mn-54	<7.06E+00	0.00E+00	7.06E+00
		Co-58	<7.28E+00	0.00E+00	7.28E+00
		Fe-59	<1.40E+01	0.00E+00	1.40E+01
		Co-60	<7.86E+00	0.00E+00	7.86E+00
		Zn-65	<1.42E+01	0.00E+00	1.42E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01
		Nb-95	<6.85E+00	0.00E+00	6.85E+00
		I-131	<8.24E+00	0.00E+00	8.24E+00
		Cs-134	<6.32E+00	0.00E+00	6.32E+00
		Cs-137	<6.49E+00	0.00E+00	6.49E+00
		BaLa-140	<1.24E+01	0.00E+00	1.24E+01
		Be-7	<6.24E+01	0.00E+00	6.24E+01
		K-40	<9.31E+01	0.00E+00	9.31E+01
H3GW	<-5.8E+01	0.00E+00	1.71E+02		

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265067	8/18/2013 - 8/18/2013	Mn-54	<8.24E+00	0.00E+00	8.24E+00
		Co-58	<6.29E+00	0.00E+00	6.29E+00
		Fe-59	<1.44E+01	0.00E+00	1.44E+01
		Co-60	<7.75E+00	0.00E+00	7.75E+00
		Zn-65	<1.46E+01	0.00E+00	1.46E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<7.34E+00	0.00E+00	7.34E+00
		I-131	<1.01E+01	0.00E+00	1.01E+01
		Cs-134	<6.70E+00	0.00E+00	6.70E+00
		Cs-137	<6.95E+00	0.00E+00	6.95E+00
		BaLa-140	<9.88E+00	0.00E+00	9.88E+00
		Be-7	<5.66E+01	0.00E+00	5.66E+01
		K-40	3.76E+02	5.76E+01	8.10E+01
H3GW	<-7.0E+01	0.00E+00	1.73E+02		

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275154	11/18/2013 - 11/18/2013	Mn-54	<6.36E+00	0.00E+00	6.36E+00
		Co-58	<5.15E+00	0.00E+00	5.15E+00
		Fe-59	<1.10E+01	0.00E+00	1.10E+01
		Co-60	<6.72E+00	0.00E+00	6.72E+00
		Zn-65	<1.06E+01	0.00E+00	1.06E+01
		Zr-95	<1.08E+01	0.00E+00	1.08E+01
		Nb-95	<6.87E+00	0.00E+00	6.87E+00
		I-131	<9.05E+00	0.00E+00	9.05E+00
		Cs-134	<5.67E+00	0.00E+00	5.67E+00
		Cs-137	<5.74E+00	0.00E+00	5.74E+00
		BaLa-140	<9.70E+00	0.00E+00	9.70E+00
		Be-7	<4.88E+01	0.00E+00	4.88E+01
		K-40	1.52E+02	3.22E+01	5.87E+01
H3GW	<-1.7E+01	0.00E+00	1.72E+02		

Sample Point 60 [ INDICATOR - ESE @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253773	2/19/2013 - 2/19/2013	Mn-54	<6.72E+00	0.00E+00	6.72E+00
		Co-58	<7.25E+00	0.00E+00	7.25E+00
		Fe-59	<1.35E+01	0.00E+00	1.35E+01
		Co-60	<8.18E+00	0.00E+00	8.18E+00
		Zn-65	<1.62E+01	0.00E+00	1.62E+01
		Zr-95	<1.20E+01	0.00E+00	1.20E+01
		Nb-95	<6.40E+00	0.00E+00	6.40E+00
		I-131	<6.52E+00	0.00E+00	6.52E+00
		Cs-134	<6.28E+00	0.00E+00	6.28E+00
		Cs-137	<8.13E+00	0.00E+00	8.13E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Be-7	<5.50E+01	0.00E+00	5.50E+01
		K-40	2.60E+02	4.15E+01	7.05E+01
H3GW	<-1.9E+01	0.00E+00	1.83E+02		



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 60 [ INDICATOR - ESE @ 0.5 miles ]

Sample ID:	257795	Sample Dates:	5/23/2013 - 5/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.42E+00	0.00E+00	7.42E+00
				Co-58	<7.48E+00	0.00E+00	7.48E+00
				Fe-59	<1.49E+01	0.00E+00	1.49E+01
				Co-60	<8.86E+00	0.00E+00	8.86E+00
				Zn-65	<1.44E+01	0.00E+00	1.44E+01
				Zr-95	<1.01E+01	0.00E+00	1.01E+01
				Nb-95	<8.02E+00	0.00E+00	8.02E+00
				I-131	<1.44E+01	0.00E+00	1.44E+01
				Cs-134	<6.57E+00	0.00E+00	6.57E+00
				Cs-137	<7.01E+00	0.00E+00	7.01E+00
				BaLa-140	<1.17E+01	0.00E+00	1.17E+01
				Be-7	5.79E+01	2.18E+01	5.15E+01
				K-40	2.29E+02	4.16E+01	5.06E+01
				H3GW	<-6.7E+01	0.00E+00	1.71E+02

Sample ID:	265068	Sample Dates:	8/19/2013 - 8/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.44E+00	0.00E+00	7.44E+00
				Co-58	<8.11E+00	0.00E+00	8.11E+00
				Fe-59	<1.82E+01	0.00E+00	1.82E+01
				Co-60	<1.09E+01	0.00E+00	1.09E+01
				Zn-65	<1.43E+01	0.00E+00	1.43E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<9.05E+00	0.00E+00	9.05E+00
				I-131	<9.04E+00	0.00E+00	9.04E+00
				Cs-134	<8.35E+00	0.00E+00	8.35E+00
				Cs-137	<8.83E+00	0.00E+00	8.83E+00
				BaLa-140	<1.24E+01	0.00E+00	1.24E+01
				Be-7	<5.93E+01	0.00E+00	5.93E+01
				K-40	1.31E+02	3.73E+01	7.91E+01
				H3GW	<7.02E+00	0.00E+00	1.73E+02

Sample ID:	275155	Sample Dates:	11/19/2013 - 11/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.02E+00	0.00E+00	7.02E+00
				Co-58	<8.72E+00	0.00E+00	8.72E+00
				Fe-59	<1.35E+01	0.00E+00	1.35E+01
				Co-60	<9.36E+00	0.00E+00	9.36E+00
				Zn-65	<1.14E+01	0.00E+00	1.14E+01
				Zr-95	<1.10E+01	0.00E+00	1.10E+01
				Nb-95	<7.82E+00	0.00E+00	7.82E+00
				I-131	<1.41E+01	0.00E+00	1.41E+01
				Cs-134	<5.61E+00	0.00E+00	5.61E+00
				Cs-137	<7.29E+00	0.00E+00	7.29E+00
				BaLa-140	<1.12E+01	0.00E+00	1.12E+01
				Be-7	<6.33E+01	0.00E+00	6.33E+01
				K-40	2.14E+02	4.26E+01	6.44E+01
				H3GW	<1.23E+02	0.00E+00	1.72E+02

Sample Point 68 [ INDICATOR - W @ 0.2 miles ]

Sample ID:	253774	Sample Dates:	2/19/2013 - 2/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<1.00E+01	0.00E+00	1.00E+01
				Co-58	<9.50E+00	0.00E+00	9.50E+00
				Fe-59	<2.31E+01	0.00E+00	2.31E+01
				Co-60	<1.26E+01	0.00E+00	1.26E+01
				Zn-65	<2.11E+01	0.00E+00	2.11E+01
				Zr-95	<1.17E+01	0.00E+00	1.17E+01
				Nb-95	<1.03E+01	0.00E+00	1.03E+01
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<8.05E+00	0.00E+00	8.05E+00
				Cs-137	<1.22E+01	0.00E+00	1.22E+01
				BaLa-140	<8.69E+00	0.00E+00	8.69E+00
				Be-7	<7.37E+01	0.00E+00	7.37E+01
				K-40	3.52E+02	7.96E+01	1.31E+02
				H3GW	<-3.5E+01	0.00E+00	1.83E+02

Sample ID:	257796	Sample Dates:	5/14/2013 - 5/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<8.31E+00	0.00E+00	8.31E+00
				Co-58	<6.08E+00	0.00E+00	6.08E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 68 [ INDICATOR - W @ 0.2 miles ]

---

Sample ID:	257796	Sample Dates:	5/14/2013 - 5/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<1.78E+01	0.00E+00	1.78E+01
				Zr-95	<1.24E+01	0.00E+00	1.24E+01
				Nb-95	<8.10E+00	0.00E+00	8.10E+00
				I-131	<8.65E+00	0.00E+00	8.65E+00
				Cs-134	<8.07E+00	0.00E+00	8.07E+00
				Cs-137	<1.00E+01	0.00E+00	1.00E+01
				BaLa-140	<1.32E+01	0.00E+00	1.32E+01
				Be-7	<6.11E+01	0.00E+00	6.11E+01
				K-40	1.91E+02	4.95E+01	9.98E+01
				H3GW	<-5.3E+01	0.00E+00	1.80E+02

---

Sample ID:	265069	Sample Dates:	8/18/2013 - 8/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.09E+00	0.00E+00	7.09E+00
				Co-58	<6.90E+00	0.00E+00	6.90E+00
				Fe-59	<1.69E+01	0.00E+00	1.69E+01
				Co-60	<1.10E+01	0.00E+00	1.10E+01
				Zn-65	<1.46E+01	0.00E+00	1.46E+01
				Zr-95	<1.32E+01	0.00E+00	1.32E+01
				Nb-95	<9.80E+00	0.00E+00	9.80E+00
				I-131	<9.36E+00	0.00E+00	9.36E+00
				Cs-134	<6.26E+00	0.00E+00	6.26E+00
				Cs-137	<7.76E+00	0.00E+00	7.76E+00
				BaLa-140	<1.30E+01	0.00E+00	1.30E+01
				Be-7	<5.89E+01	0.00E+00	5.89E+01
				K-40	3.71E+02	4.49E+01	7.69E+01
				H3GW	<5.15E+01	0.00E+00	1.73E+02

---

Sample ID:	275156	Sample Dates:	11/18/2013 - 11/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<6.57E+00	0.00E+00	6.57E+00
				Co-58	<6.91E+00	0.00E+00	6.91E+00
				Fe-59	<1.30E+01	0.00E+00	1.30E+01
				Co-60	<5.26E+00	0.00E+00	5.26E+00
				Zn-65	<1.24E+01	0.00E+00	1.24E+01
				Zr-95	<1.37E+01	0.00E+00	1.37E+01
				Nb-95	<7.45E+00	0.00E+00	7.45E+00
				I-131	<1.24E+01	0.00E+00	1.24E+01
				Cs-134	<6.89E+00	0.00E+00	6.89E+00
				Cs-137	<6.16E+00	0.00E+00	6.16E+00
				BaLa-140	<1.43E+01	0.00E+00	1.43E+01
				Be-7	<5.52E+01	0.00E+00	5.52E+01
				K-40	2.40E+02	5.92E+01	6.45E+01
				H3GW	<9.31E+01	0.00E+00	1.71E+02

---

Sample Point 69 [ INDICATOR - NNE @ 0.2 miles ]

---

Sample ID:	253775	Sample Dates:	2/19/2013 - 2/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<4.54E+00	0.00E+00	4.54E+00
				Co-58	<4.75E+00	0.00E+00	4.75E+00
				Fe-59	<8.99E+00	0.00E+00	8.99E+00
				Co-60	<6.07E+00	0.00E+00	6.07E+00
				Zn-65	<9.14E+00	0.00E+00	9.14E+00
				Zr-95	<8.55E+00	0.00E+00	8.55E+00
				Nb-95	<4.61E+00	0.00E+00	4.61E+00
				I-131	<5.42E+00	0.00E+00	5.42E+00
				Cs-134	<4.32E+00	0.00E+00	4.32E+00
				Cs-137	<5.92E+00	0.00E+00	5.92E+00
				BaLa-140	<8.87E+00	0.00E+00	8.87E+00
				Be-7	<3.98E+01	0.00E+00	3.98E+01
				K-40	1.10E+02	2.39E+01	4.91E+01
				H3GW	<-3.0E+01	0.00E+00	1.83E+02

---

Sample ID:	257797	Sample Dates:	5/14/2013 - 5/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<8.18E+00	0.00E+00	8.18E+00
				Co-58	<5.03E+00	0.00E+00	5.03E+00
				Fe-59	<1.42E+01	0.00E+00	1.42E+01
				Co-60	<1.14E+01	0.00E+00	1.14E+01
				Zn-65	<1.96E+01	0.00E+00	1.96E+01
				Zr-95	<1.34E+01	0.00E+00	1.34E+01

---



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 69 [ INDICATOR - NNE @ 0.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257797	5/14/2013 - 5/14/2013	Nb-95	<6.27E+00	0.00E+00	6.27E+00
		I-131	<8.29E+00	0.00E+00	8.29E+00
		Cs-134	<6.85E+00	0.00E+00	6.85E+00
		Cs-137	<8.55E+00	0.00E+00	8.55E+00
		BaLa-140	<6.69E+00	0.00E+00	6.69E+00
		Be-7	<6.02E+01	0.00E+00	6.02E+01
		K-40	1.05E+02	4.74E+01	8.57E+01
		H3GW	<-9.5E+00	0.00E+00	1.79E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265070	8/18/2013 - 8/18/2013	Mn-54	<5.85E+00	0.00E+00	5.85E+00
		Co-58	<5.85E+00	0.00E+00	5.85E+00
		Fe-59	<1.33E+01	0.00E+00	1.33E+01
		Co-60	<7.44E+00	0.00E+00	7.44E+00
		Zn-65	<1.28E+01	0.00E+00	1.28E+01
		Zr-95	<1.00E+01	0.00E+00	1.00E+01
		Nb-95	<5.74E+00	0.00E+00	5.74E+00
		I-131	<8.07E+00	0.00E+00	8.07E+00
		Cs-134	<5.69E+00	0.00E+00	5.69E+00
		Cs-137	<6.46E+00	0.00E+00	6.46E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<5.18E+01	0.00E+00	5.18E+01
		K-40	2.07E+02	3.70E+01	7.16E+01
		H3GW	<-2.8E+01	0.00E+00	1.73E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275157	11/18/2013 - 11/18/2013	Mn-54	<4.16E+00	0.00E+00	4.16E+00
		Co-58	<5.52E+00	0.00E+00	5.52E+00
		Fe-59	<1.05E+01	0.00E+00	1.05E+01
		Co-60	<5.11E+00	0.00E+00	5.11E+00
		Zn-65	<1.08E+01	0.00E+00	1.08E+01
		Zr-95	<7.78E+00	0.00E+00	7.78E+00
		Nb-95	<5.60E+00	0.00E+00	5.60E+00
		I-131	<9.77E+00	0.00E+00	9.77E+00
		Cs-134	<4.34E+00	0.00E+00	4.34E+00
		Cs-137	<4.85E+00	0.00E+00	4.85E+00
		BaLa-140	<8.29E+00	0.00E+00	8.29E+00
		Be-7	<3.93E+01	0.00E+00	3.93E+01
		K-40	3.69E+02	4.38E+01	5.75E+01
		H3GW	<2.92E+01	0.00E+00	1.70E+02

Sample Point 70 [ INDICATOR - E @ 0.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253776	2/19/2013 - 2/19/2013	Mn-54	<7.97E+00	0.00E+00	7.97E+00
		Co-58	<9.20E+00	0.00E+00	9.20E+00
		Fe-59	<1.55E+01	0.00E+00	1.55E+01
		Co-60	<1.32E+01	0.00E+00	1.32E+01
		Zn-65	<1.75E+01	0.00E+00	1.75E+01
		Zr-95	<1.27E+01	0.00E+00	1.27E+01
		Nb-95	<6.83E+00	0.00E+00	6.83E+00
		I-131	<9.95E+00	0.00E+00	9.95E+00
		Cs-134	<6.85E+00	0.00E+00	6.85E+00
		Cs-137	<1.03E+01	0.00E+00	1.03E+01
		BaLa-140	<8.95E+00	0.00E+00	8.95E+00
		Be-7	<5.29E+01	0.00E+00	5.29E+01
		K-40	1.42E+02	3.10E+01	7.08E+01
		H3GW	<-7.5E+01	0.00E+00	1.83E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257798	5/23/2013 - 5/23/2013	Mn-54	<8.00E+00	0.00E+00	8.00E+00
		Co-58	<6.77E+00	0.00E+00	6.77E+00
		Fe-59	<1.74E+01	0.00E+00	1.74E+01
		Co-60	<5.75E+00	0.00E+00	5.75E+00
		Zn-65	<1.89E+01	0.00E+00	1.89E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<8.74E+00	0.00E+00	8.74E+00
		I-131	<1.25E+01	0.00E+00	1.25E+01
Cs-134	<7.87E+00	0.00E+00	7.87E+00		



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 70 [ INDICATOR - E @ 0.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257798	5/23/2013 - 5/23/2013	Cs-137	<8.41E+00	0.00E+00	8.41E+00
		BaLa-140	<1.08E+01	0.00E+00	1.08E+01
		Be-7	<5.91E+01	0.00E+00	5.91E+01
		K-40	5.06E+02	6.72E+01	7.36E+01
		H3GW	<-7.6E+01	0.00E+00	1.71E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265071	8/18/2013 - 8/18/2013	Mn-54	<7.81E+00	0.00E+00	7.81E+00
		Co-58	<5.96E+00	0.00E+00	5.96E+00
		Fe-59	<1.53E+01	0.00E+00	1.53E+01
		Co-60	<8.89E+00	0.00E+00	8.89E+00
		Zn-65	<1.38E+01	0.00E+00	1.38E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<6.78E+00	0.00E+00	6.78E+00
		I-131	<1.01E+01	0.00E+00	1.01E+01
		Cs-134	<7.22E+00	0.00E+00	7.22E+00
		Cs-137	<8.42E+00	0.00E+00	8.42E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<5.72E+01	0.00E+00	5.72E+01
		K-40	2.01E+02	4.05E+01	7.54E+01
		H3GW	<-1.6E+01	0.00E+00	1.73E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275158	11/18/2013 - 11/18/2013	Mn-54	<6.97E+00	0.00E+00	6.97E+00
		Co-58	<6.77E+00	0.00E+00	6.77E+00
		Fe-59	<1.58E+01	0.00E+00	1.58E+01
		Co-60	<4.94E+00	0.00E+00	4.94E+00
		Zn-65	<1.44E+01	0.00E+00	1.44E+01
		Zr-95	<1.17E+01	0.00E+00	1.17E+01
		Nb-95	<7.20E+00	0.00E+00	7.20E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<6.17E+00	0.00E+00	6.17E+00
		Cs-137	<5.61E+00	0.00E+00	5.61E+00
		BaLa-140	<1.10E+01	0.00E+00	1.10E+01
		Be-7	<5.70E+01	0.00E+00	5.70E+01
		K-40	3.86E+02	5.12E+01	6.09E+01
		H3GW	<-2.2E+01	0.00E+00	1.72E+02

## Sample Point 71 [ INDICATOR - SE @ 0.3 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253777	2/19/2013 - 2/19/2013	Mn-54	<7.17E+00	0.00E+00	7.17E+00
		Co-58	<7.90E+00	0.00E+00	7.90E+00
		Fe-59	<1.66E+01	0.00E+00	1.66E+01
		Co-60	<1.06E+01	0.00E+00	1.06E+01
		Zn-65	<1.41E+01	0.00E+00	1.41E+01
		Zr-95	<1.28E+01	0.00E+00	1.28E+01
		Nb-95	<8.76E+00	0.00E+00	8.76E+00
		I-131	<8.24E+00	0.00E+00	8.24E+00
		Cs-134	<8.26E+00	0.00E+00	8.26E+00
		Cs-137	<8.40E+00	0.00E+00	8.40E+00
		BaLa-140	<1.32E+01	0.00E+00	1.32E+01
		Be-7	<5.64E+01	0.00E+00	5.64E+01
		K-40	3.49E+02	5.17E+01	6.29E+01
		H3GW	<-9.1E+01	0.00E+00	1.83E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257799	5/23/2013 - 5/23/2013	Mn-54	<6.82E+00	0.00E+00	6.82E+00
		Co-58	<7.02E+00	0.00E+00	7.02E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<9.51E+00	0.00E+00	9.51E+00
		Zn-65	<1.64E+01	0.00E+00	1.64E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<7.52E+00	0.00E+00	7.52E+00
		I-131	<7.86E+00	0.00E+00	7.86E+00
		Cs-134	<4.48E+00	0.00E+00	4.48E+00
		Cs-137	<7.52E+00	0.00E+00	7.52E+00
		BaLa-140	<8.28E+00	0.00E+00	8.28E+00
		Be-7	<5.21E+01	0.00E+00	5.21E+01





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 71 [ INDICATOR - SE @ 0.3 miles ]

Sample ID:	257799	Sample Dates:	5/23/2013 - 5/23/2013	Nuclide	Activity	1 Sigma Error	LLD
				K-40	1.62E+02	3.75E+01	6.94E+01
				H3GW	<-3.8E+01	0.00E+00	1.70E+02

Sample ID:	265072	Sample Dates:	8/18/2013 - 8/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<9.33E+00	0.00E+00	9.33E+00
				Co-58	<8.12E+00	0.00E+00	8.12E+00
				Fe-59	<2.14E+01	0.00E+00	2.14E+01
				Co-60	<1.33E+01	0.00E+00	1.33E+01
				Zn-65	<1.47E+01	0.00E+00	1.47E+01
				Zr-95	<1.35E+01	0.00E+00	1.35E+01
				Nb-95	<9.76E+00	0.00E+00	9.76E+00
				I-131	<1.07E+01	0.00E+00	1.07E+01
				Cs-134	<7.30E+00	0.00E+00	7.30E+00
				Cs-137	<6.93E+00	0.00E+00	6.93E+00
				BaLa-140	<1.40E+01	0.00E+00	1.40E+01
				Be-7	<6.12E+01	0.00E+00	6.12E+01
				K-40	1.55E+02	6.01E+01	9.28E+01
				H3GW	<-4.0E+01	0.00E+00	1.73E+02

Sample ID:	275159	Sample Dates:	11/19/2013 - 11/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.77E+00	0.00E+00	7.77E+00
				Co-58	<8.19E+00	0.00E+00	8.19E+00
				Fe-59	<1.96E+01	0.00E+00	1.96E+01
				Co-60	<9.30E+00	0.00E+00	9.30E+00
				Zn-65	<1.40E+01	0.00E+00	1.40E+01
				Zr-95	<1.42E+01	0.00E+00	1.42E+01
				Nb-95	<6.97E+00	0.00E+00	6.97E+00
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<6.16E+00	0.00E+00	6.16E+00
				Cs-137	<6.36E+00	0.00E+00	6.36E+00
				BaLa-140	<1.02E+01	0.00E+00	1.02E+01
				Be-7	<7.02E+01	0.00E+00	7.02E+01
				K-40	1.56E+02	3.12E+01	1.13E+02
				H3GW	<1.03E+02	0.00E+00	1.71E+02

Sample Point 72 [ INDICATOR - SE @ 0.2 miles ]

Sample ID:	253778	Sample Dates:	2/19/2013 - 2/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<6.04E+00	0.00E+00	6.04E+00
				Co-58	<6.34E+00	0.00E+00	6.34E+00
				Fe-59	<1.27E+01	0.00E+00	1.27E+01
				Co-60	<6.46E+00	0.00E+00	6.46E+00
				Zn-65	<1.31E+01	0.00E+00	1.31E+01
				Zr-95	<1.10E+01	0.00E+00	1.10E+01
				Nb-95	<7.63E+00	0.00E+00	7.63E+00
				I-131	<8.92E+00	0.00E+00	8.92E+00
				Cs-134	<5.94E+00	0.00E+00	5.94E+00
				Cs-137	<6.36E+00	0.00E+00	6.36E+00
				BaLa-140	<9.82E+00	0.00E+00	9.82E+00
				Be-7	<5.25E+01	0.00E+00	5.25E+01
				K-40	3.80E+02	4.62E+01	7.11E+01
				H3GW	<-8.6E+01	0.00E+00	1.83E+02

Sample ID:	257800	Sample Dates:	5/14/2013 - 5/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<8.35E+00	0.00E+00	8.35E+00
				Co-58	<7.76E+00	0.00E+00	7.76E+00
				Fe-59	<1.51E+01	0.00E+00	1.51E+01
				Co-60	<1.01E+01	0.00E+00	1.01E+01
				Zn-65	<1.85E+01	0.00E+00	1.85E+01
				Zr-95	<1.42E+01	0.00E+00	1.42E+01
				Nb-95	<1.00E+01	0.00E+00	1.00E+01
				I-131	<9.26E+00	0.00E+00	9.26E+00
				Cs-134	<8.13E+00	0.00E+00	8.13E+00
				Cs-137	<7.68E+00	0.00E+00	7.68E+00
				BaLa-140	<1.08E+01	0.00E+00	1.08E+01
				Be-7	<6.76E+01	0.00E+00	6.76E+01
				K-40	3.87E+02	5.67E+01	1.00E+02
				H3GW	<1.17E+01	0.00E+00	1.77E+02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 72 [ INDICATOR - SE @ 0.2 miles ]

---

Sample ID:	265073	Sample Dates:	8/18/2013 - 8/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<9.32E+00	0.00E+00	9.32E+00
				Co-58	<7.94E+00	0.00E+00	7.94E+00
				Fe-59	<2.01E+01	0.00E+00	2.01E+01
				Co-60	<9.46E+00	0.00E+00	9.46E+00
				Zn-65	<2.12E+01	0.00E+00	2.12E+01
				Zr-95	<1.44E+01	0.00E+00	1.44E+01
				Nb-95	<1.14E+01	0.00E+00	1.14E+01
				I-131	<1.31E+01	0.00E+00	1.31E+01
				Cs-134	<7.72E+00	0.00E+00	7.72E+00
				Cs-137	<7.29E+00	0.00E+00	7.29E+00
				BaLa-140	<1.25E+01	0.00E+00	1.25E+01
				Be-7	<6.90E+01	0.00E+00	6.90E+01
				K-40	4.86E+02	5.24E+01	8.29E+01
				H3GW	<-2.6E+01	0.00E+00	1.73E+02

---

Sample ID:	275160	Sample Dates:	11/18/2013 - 11/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<6.84E+00	0.00E+00	6.84E+00
				Co-58	<6.56E+00	0.00E+00	6.56E+00
				Fe-59	<1.31E+01	0.00E+00	1.31E+01
				Co-60	<8.41E+00	0.00E+00	8.41E+00
				Zn-65	<1.07E+01	0.00E+00	1.07E+01
				Zr-95	<1.17E+01	0.00E+00	1.17E+01
				Nb-95	<8.13E+00	0.00E+00	8.13E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<6.40E+00	0.00E+00	6.40E+00
				Cs-137	<8.19E+00	0.00E+00	8.19E+00
				BaLa-140	<1.28E+01	0.00E+00	1.28E+01
				Be-7	<5.97E+01	0.00E+00	5.97E+01
				K-40	2.15E+02	4.81E+01	7.54E+01
				H3GW	<2.44E+00	0.00E+00	1.70E+02

---

Sample Point 73 [ INDICATOR - S @ 0.2 miles ]

---

Sample ID:	253779	Sample Dates:	2/20/2013 - 2/20/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.61E+00	0.00E+00	7.61E+00
				Co-58	<5.95E+00	0.00E+00	5.95E+00
				Fe-59	<1.34E+01	0.00E+00	1.34E+01
				Co-60	<6.49E+00	0.00E+00	6.49E+00
				Zn-65	<1.42E+01	0.00E+00	1.42E+01
				Zr-95	<1.42E+01	0.00E+00	1.42E+01
				Nb-95	<6.36E+00	0.00E+00	6.36E+00
				I-131	<8.64E+00	0.00E+00	8.64E+00
				Cs-134	<5.37E+00	0.00E+00	5.37E+00
				Cs-137	<6.39E+00	0.00E+00	6.39E+00
				BaLa-140	<7.59E+00	0.00E+00	7.59E+00
				Be-7	<5.02E+01	0.00E+00	5.02E+01
				K-40	4.74E+02	5.23E+01	6.08E+01
				H3GW	<-8.2E+01	0.00E+00	1.83E+02

---

Sample ID:	257801	Sample Dates:	5/14/2013 - 5/14/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<7.66E+00	0.00E+00	7.66E+00
				Co-58	<7.81E+00	0.00E+00	7.81E+00
				Fe-59	<1.58E+01	0.00E+00	1.58E+01
				Co-60	<1.03E+01	0.00E+00	1.03E+01
				Zn-65	<1.77E+01	0.00E+00	1.77E+01
				Zr-95	<1.40E+01	0.00E+00	1.40E+01
				Nb-95	<7.51E+00	0.00E+00	7.51E+00
				I-131	<9.11E+00	0.00E+00	9.11E+00
				Cs-134	<7.76E+00	0.00E+00	7.76E+00
				Cs-137	<7.88E+00	0.00E+00	7.88E+00
				BaLa-140	<7.81E+00	0.00E+00	7.81E+00
				Be-7	<6.44E+01	0.00E+00	6.44E+01
				K-40	1.37E+02	4.58E+01	6.43E+01
				H3GW	<-5.7E+01	0.00E+00	1.80E+02

---

Sample ID:	265074	Sample Dates:	8/18/2013 - 8/18/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<8.67E+00	0.00E+00	8.67E+00
				Co-58	<7.42E+00	0.00E+00	7.42E+00
				Fe-59	<1.82E+01	0.00E+00	1.82E+01

---



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 73 [ INDICATOR - S @ 0.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265074	8/18/2013 - 8/18/2013	Co-60	<1.02E+01	0.00E+00	1.02E+01
		Zn-65	<1.64E+01	0.00E+00	1.64E+01
		Zr-95	<1.26E+01	0.00E+00	1.26E+01
		Nb-95	<8.54E+00	0.00E+00	8.54E+00
		I-131	<9.54E+00	0.00E+00	9.54E+00
		Cs-134	<6.77E+00	0.00E+00	6.77E+00
		Cs-137	<7.73E+00	0.00E+00	7.73E+00
		BaLa-140	<1.44E+01	0.00E+00	1.44E+01
		Be-7	<6.07E+01	0.00E+00	6.07E+01
		K-40	3.56E+02	5.38E+01	8.33E+01
		H3GW	<-7.5E+01	0.00E+00	1.73E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275161	11/18/2013 - 11/18/2013	Mn-54	<6.44E+00	0.00E+00	6.44E+00
		Co-58	<5.39E+00	0.00E+00	5.39E+00
		Fe-59	<1.34E+01	0.00E+00	1.34E+01
		Co-60	<4.79E+00	0.00E+00	4.79E+00
		Zn-65	<1.62E+01	0.00E+00	1.62E+01
		Zr-95	<1.28E+01	0.00E+00	1.28E+01
		Nb-95	<7.23E+00	0.00E+00	7.23E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<5.74E+00	0.00E+00	5.74E+00
		Cs-137	<4.73E+00	0.00E+00	4.73E+00
		BaLa-140	<1.24E+01	0.00E+00	1.24E+01
		Be-7	<6.44E+01	0.00E+00	6.44E+01
		K-40	3.67E+02	4.71E+01	7.91E+01
		H3GW	<5.64E+01	0.00E+00	1.71E+02

Sample Point 74 [ INDICATOR - SSE @ 0.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253780	2/20/2013 - 2/20/2013	Mn-54	<9.53E+00	0.00E+00	9.53E+00
		Co-58	<7.95E+00	0.00E+00	7.95E+00
		Fe-59	<2.46E+01	0.00E+00	2.46E+01
		Co-60	<1.44E+01	0.00E+00	1.44E+01
		Zn-65	<2.21E+01	0.00E+00	2.21E+01
		Zr-95	<1.41E+01	0.00E+00	1.41E+01
		Nb-95	<1.10E+01	0.00E+00	1.10E+01
		I-131	<8.83E+00	0.00E+00	8.83E+00
		Cs-134	<8.20E+00	0.00E+00	8.20E+00
		Cs-137	<1.01E+01	0.00E+00	1.01E+01
		BaLa-140	<1.40E+01	0.00E+00	1.40E+01
		Be-7	<6.38E+01	0.00E+00	6.38E+01
		K-40	1.55E+02	4.47E+01	1.16E+02
		H3GW	<-8.2E+01	0.00E+00	1.83E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257802	5/14/2013 - 5/14/2013	Mn-54	<1.02E+01	0.00E+00	1.02E+01
		Co-58	<9.00E+00	0.00E+00	9.00E+00
		Fe-59	<1.64E+01	0.00E+00	1.64E+01
		Co-60	<1.44E+01	0.00E+00	1.44E+01
		Zn-65	<1.51E+01	0.00E+00	1.51E+01
		Zr-95	<1.17E+01	0.00E+00	1.17E+01
		Nb-95	<1.14E+01	0.00E+00	1.14E+01
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<9.87E+00	0.00E+00	9.87E+00
		Cs-137	<5.95E+00	0.00E+00	5.95E+00
		BaLa-140	<9.92E+00	0.00E+00	9.92E+00
		Be-7	<9.09E+01	0.00E+00	9.09E+01
		K-40	3.18E+02	5.98E+01	1.13E+02
		H3GW	<2.39E+00	0.00E+00	1.80E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265075	8/20/2013 - 8/20/2013	Mn-54	<6.59E+00	0.00E+00	6.59E+00
		Co-58	<8.12E+00	0.00E+00	8.12E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<1.06E+01	0.00E+00	1.06E+01
		Zn-65	<2.33E+01	0.00E+00	2.33E+01
		Zr-95	<1.36E+01	0.00E+00	1.36E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 74 [ INDICATOR - SSE @ 0.2 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265075	8/20/2013 - 8/20/2013	Nb-95	<8.23E+00	0.00E+00	8.23E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<8.32E+00	0.00E+00	8.32E+00
		Cs-137	<1.04E+01	0.00E+00	1.04E+01
		BaLa-140	<8.98E+00	0.00E+00	8.98E+00
		Be-7	<6.71E+01	0.00E+00	6.71E+01
		K-40	1.36E+02	6.38E+01	1.30E+02
		H3GW	<4.68E+01	0.00E+00	1.73E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275162	11/19/2013 - 11/19/2013	Mn-54	<5.15E+00	0.00E+00	5.15E+00
		Co-58	<6.27E+00	0.00E+00	6.27E+00
		Fe-59	<1.30E+01	0.00E+00	1.30E+01
		Co-60	<8.22E+00	0.00E+00	8.22E+00
		Zn-65	<1.60E+01	0.00E+00	1.60E+01
		Zr-95	<1.43E+01	0.00E+00	1.43E+01
		Nb-95	<6.67E+00	0.00E+00	6.67E+00
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<6.46E+00	0.00E+00	6.46E+00
		Cs-137	<7.17E+00	0.00E+00	7.17E+00
		BaLa-140	<9.79E+00	0.00E+00	9.79E+00
		Be-7	<5.41E+01	0.00E+00	5.41E+01
		K-40	2.22E+02	4.01E+01	7.36E+01
		H3GW	<1.40E+02	0.00E+00	1.71E+02

Sample Point 75 [ INDICATOR - ESE @ 0.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253781	2/21/2013 - 2/21/2013	Mn-54	<8.32E+00	0.00E+00	8.32E+00
		Co-58	<7.90E+00	0.00E+00	7.90E+00
		Fe-59	<1.65E+01	0.00E+00	1.65E+01
		Co-60	<1.10E+01	0.00E+00	1.10E+01
		Zn-65	<1.97E+01	0.00E+00	1.97E+01
		Zr-95	<1.22E+01	0.00E+00	1.22E+01
		Nb-95	<7.50E+00	0.00E+00	7.50E+00
		I-131	<6.99E+00	0.00E+00	6.99E+00
		Cs-134	<6.52E+00	0.00E+00	6.52E+00
		Cs-137	<9.83E+00	0.00E+00	9.83E+00
		BaLa-140	<9.66E+00	0.00E+00	9.66E+00
		Be-7	<4.95E+01	0.00E+00	4.95E+01
		K-40	<1.45E+02	0.00E+00	1.45E+02
		H3GW	<-3.1E+01	0.00E+00	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257803	5/23/2013 - 5/23/2013	Mn-54	<3.66E+00	0.00E+00	3.66E+00
		Co-58	<3.63E+00	0.00E+00	3.63E+00
		Fe-59	<7.20E+00	0.00E+00	7.20E+00
		Co-60	<5.47E+00	0.00E+00	5.47E+00
		Zn-65	<8.72E+00	0.00E+00	8.72E+00
		Zr-95	<7.44E+00	0.00E+00	7.44E+00
		Nb-95	<3.87E+00	0.00E+00	3.87E+00
		I-131	<5.01E+00	0.00E+00	5.01E+00
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<3.76E+00	0.00E+00	3.76E+00
		BaLa-140	<6.33E+00	0.00E+00	6.33E+00
		Be-7	<2.99E+01	0.00E+00	2.99E+01
		K-40	1.27E+02	2.65E+01	4.40E+01
		H3GW	<5.41E+01	0.00E+00	1.72E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265076	8/20/2013 - 8/20/2013	Mn-54	<6.72E+00	0.00E+00	6.72E+00
		Co-58	<6.96E+00	0.00E+00	6.96E+00
		Fe-59	<1.20E+01	0.00E+00	1.20E+01
		Co-60	<7.34E+00	0.00E+00	7.34E+00
		Zn-65	<1.31E+01	0.00E+00	1.31E+01
		Zr-95	<1.26E+01	0.00E+00	1.26E+01
		Nb-95	<6.13E+00	0.00E+00	6.13E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<5.93E+00	0.00E+00	5.93E+00



## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 75 [ INDICATOR - ESE @ 0.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265076	8/20/2013 - 8/20/2013	Cs-137	<6.15E+00	0.00E+00	6.15E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<4.50E+01	0.00E+00	4.50E+01
		K-40	3.24E+02	4.27E+01	5.84E+01
		H3GW	<1.13E+01	0.00E+00	1.70E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275163	11/20/2013 - 11/20/2013	Mn-54	<2.70E+00	0.00E+00	2.70E+00
		Co-58	<2.75E+00	0.00E+00	2.75E+00
		Fe-59	<6.61E+00	0.00E+00	6.61E+00
		Co-60	<2.95E+00	0.00E+00	2.95E+00
		Zn-65	<5.54E+00	0.00E+00	5.54E+00
		Zr-95	<5.20E+00	0.00E+00	5.20E+00
		Nb-95	<3.54E+00	0.00E+00	3.54E+00
		I-131	<9.14E+00	0.00E+00	9.14E+00
		Cs-134	<2.38E+00	0.00E+00	2.38E+00
		Cs-137	<2.80E+00	0.00E+00	2.80E+00
		BaLa-140	<7.87E+00	0.00E+00	7.87E+00
		Be-7	<2.48E+01	0.00E+00	2.48E+01
		K-40	3.51E+02	2.23E+01	2.64E+01
		H3GW	<3.53E+01	0.00E+00	2.05E+02

Sample Point 76 [ INDICATOR - S @ 0.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253782	2/21/2013 - 2/21/2013	Mn-54	<9.21E+00	0.00E+00	9.21E+00
		Co-58	<6.35E+00	0.00E+00	6.35E+00
		Fe-59	<1.88E+01	0.00E+00	1.88E+01
		Co-60	<1.11E+01	0.00E+00	1.11E+01
		Zn-65	<1.62E+01	0.00E+00	1.62E+01
		Zr-95	<1.32E+01	0.00E+00	1.32E+01
		Nb-95	<7.74E+00	0.00E+00	7.74E+00
		I-131	<7.61E+00	0.00E+00	7.61E+00
		Cs-134	<7.08E+00	0.00E+00	7.08E+00
		Cs-137	<8.84E+00	0.00E+00	8.84E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<5.48E+01	0.00E+00	5.48E+01
		K-40	1.16E+02	6.31E+01	9.35E+01
		H3GW	3.76E+02	5.99E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257804	5/23/2013 - 5/23/2013	Mn-54	<6.88E+00	0.00E+00	6.88E+00
		Co-58	<6.81E+00	0.00E+00	6.81E+00
		Fe-59	<1.97E+01	0.00E+00	1.97E+01
		Co-60	<1.04E+01	0.00E+00	1.04E+01
		Zn-65	<1.32E+01	0.00E+00	1.32E+01
		Zr-95	<1.21E+01	0.00E+00	1.21E+01
		Nb-95	<7.66E+00	0.00E+00	7.66E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<6.57E+00	0.00E+00	6.57E+00
		Cs-137	<7.17E+00	0.00E+00	7.17E+00
		BaLa-140	<1.41E+01	0.00E+00	1.41E+01
		Be-7	<5.76E+01	0.00E+00	5.76E+01
		K-40	1.22E+02	3.38E+01	9.18E+01
		H3GW	2.93E+02	5.69E+01	1.71E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265077	8/20/2013 - 8/20/2013	Mn-54	<7.03E+00	0.00E+00	7.03E+00
		Co-58	<8.94E+00	0.00E+00	8.94E+00
		Fe-59	<1.42E+01	0.00E+00	1.42E+01
		Co-60	<1.07E+01	0.00E+00	1.07E+01
		Zn-65	<1.73E+01	0.00E+00	1.73E+01
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<7.42E+00	0.00E+00	7.42E+00
		I-131	<7.78E+00	0.00E+00	7.78E+00
		Cs-134	<6.53E+00	0.00E+00	6.53E+00
		Cs-137	<6.69E+00	0.00E+00	6.69E+00
		BaLa-140	<9.61E+00	0.00E+00	9.61E+00
		Be-7	<5.15E+01	0.00E+00	5.15E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 76 [ INDICATOR - S @ 0.1 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265077	8/20/2013 - 8/20/2013	K-40	1.64E+02	4.74E+01	7.72E+01
		H3GW	4.46E+02	5.91E+01	1.70E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275164	11/20/2013 - 11/20/2013	Mn-54	<1.92E+00	0.00E+00	1.92E+00
		Co-58	<2.12E+00	0.00E+00	2.12E+00
		Fe-59	<4.37E+00	0.00E+00	4.37E+00
		Co-60	<1.76E+00	0.00E+00	1.76E+00
		Zn-65	<3.99E+00	0.00E+00	3.99E+00
		Zr-95	<3.68E+00	0.00E+00	3.68E+00
		Nb-95	<2.73E+00	0.00E+00	2.73E+00
		I-131	<1.03E+01	0.00E+00	1.03E+01
		Cs-134	<1.84E+00	0.00E+00	1.84E+00
		Cs-137	<1.97E+00	0.00E+00	1.97E+00
		BaLa-140	<5.59E+00	0.00E+00	5.59E+00
		Be-7	<1.96E+01	0.00E+00	1.96E+01
		K-40	3.10E+02	1.59E+01	1.90E+01
		H3GW	2.55E+02	6.67E+01	2.05E+02

Sample Point 77 [ INDICATOR - S @ 0.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253783	2/20/2013 - 2/20/2013	Mn-54	<8.19E+00	0.00E+00	8.19E+00
		Co-58	<7.46E+00	0.00E+00	7.46E+00
		Fe-59	<1.37E+01	0.00E+00	1.37E+01
		Co-60	<1.05E+01	0.00E+00	1.05E+01
		Zn-65	<1.67E+01	0.00E+00	1.67E+01
		Zr-95	<1.28E+01	0.00E+00	1.28E+01
		Nb-95	<7.54E+00	0.00E+00	7.54E+00
		I-131	<8.01E+00	0.00E+00	8.01E+00
		Cs-134	<6.98E+00	0.00E+00	6.98E+00
		Cs-137	<7.14E+00	0.00E+00	7.14E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<4.63E+01	0.00E+00	4.63E+01
		K-40	<1.66E+02	0.00E+00	1.66E+02
		H3GW	3.26E+02	5.92E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257805	5/15/2013 - 5/15/2013	Mn-54	<7.74E+00	0.00E+00	7.74E+00
		Co-58	<6.55E+00	0.00E+00	6.55E+00
		Fe-59	<1.63E+01	0.00E+00	1.63E+01
		Co-60	<9.67E+00	0.00E+00	9.67E+00
		Zn-65	<7.54E+00	0.00E+00	7.54E+00
		Zr-95	<1.39E+01	0.00E+00	1.39E+01
		Nb-95	<7.33E+00	0.00E+00	7.33E+00
		I-131	<7.06E+00	0.00E+00	7.06E+00
		Cs-134	<5.45E+00	0.00E+00	5.45E+00
		Cs-137	<6.28E+00	0.00E+00	6.28E+00
		BaLa-140	<7.64E+00	0.00E+00	7.64E+00
		Be-7	<5.14E+01	0.00E+00	5.14E+01
		K-40	9.10E+01	3.59E+01	7.18E+01
		H3GW	2.49E+02	5.84E+01	1.78E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265078	8/19/2013 - 8/19/2013	Mn-54	<6.94E+00	0.00E+00	6.94E+00
		Co-58	<7.93E+00	0.00E+00	7.93E+00
		Fe-59	<1.66E+01	0.00E+00	1.66E+01
		Co-60	<1.08E+01	0.00E+00	1.08E+01
		Zn-65	<1.91E+01	0.00E+00	1.91E+01
		Zr-95	<1.37E+01	0.00E+00	1.37E+01
		Nb-95	<7.73E+00	0.00E+00	7.73E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<6.41E+00	0.00E+00	6.41E+00
		Cs-137	<8.78E+00	0.00E+00	8.78E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<6.19E+01	0.00E+00	6.19E+01
		K-40	<1.61E+02	0.00E+00	1.61E+02
		H3GW	2.71E+02	5.62E+01	1.70E+02



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 77 [ INDICATOR - S @ 0.4 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275165	11/19/2013 - 11/19/2013	Mn-54	<8.06E+00	0.00E+00	8.06E+00
		Co-58	<7.41E+00	0.00E+00	7.41E+00
		Fe-59	<1.81E+01	0.00E+00	1.81E+01
		Co-60	<9.07E+00	0.00E+00	9.07E+00
		Zn-65	<1.59E+01	0.00E+00	1.59E+01
		Zr-95	<1.33E+01	0.00E+00	1.33E+01
		Nb-95	<9.56E+00	0.00E+00	9.56E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<7.20E+00	0.00E+00	7.20E+00
		Cs-137	<7.48E+00	0.00E+00	7.48E+00
		BaLa-140	<1.20E+01	0.00E+00	1.20E+01
		Be-7	<6.93E+01	0.00E+00	6.93E+01
		K-40	1.10E+02	2.68E+01	9.31E+01
		H3GW	2.28E+02	6.69E+01	2.07E+02

Sample Point 78 [ INDICATOR - S @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253784	2/20/2013 - 2/20/2013	Mn-54	<7.34E+00	0.00E+00	7.34E+00
		Co-58	<7.93E+00	0.00E+00	7.93E+00
		Fe-59	<1.39E+01	0.00E+00	1.39E+01
		Co-60	<1.20E+01	0.00E+00	1.20E+01
		Zn-65	<1.83E+01	0.00E+00	1.83E+01
		Zr-95	<1.44E+01	0.00E+00	1.44E+01
		Nb-95	<7.34E+00	0.00E+00	7.34E+00
		I-131	<9.50E+00	0.00E+00	9.50E+00
		Cs-134	<8.41E+00	0.00E+00	8.41E+00
		Cs-137	<7.96E+00	0.00E+00	7.96E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<6.78E+01	0.00E+00	6.78E+01
		K-40	3.34E+02	4.77E+01	7.28E+01
		H3GW	6.19E+02	6.36E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257806	5/15/2013 - 5/15/2013	Mn-54	<6.97E+00	0.00E+00	6.97E+00
		Co-58	<7.76E+00	0.00E+00	7.76E+00
		Fe-59	<1.46E+01	0.00E+00	1.46E+01
		Co-60	<7.42E+00	0.00E+00	7.42E+00
		Zn-65	<1.34E+01	0.00E+00	1.34E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<6.56E+00	0.00E+00	6.56E+00
		I-131	<9.21E+00	0.00E+00	9.21E+00
		Cs-134	<6.87E+00	0.00E+00	6.87E+00
		Cs-137	<8.12E+00	0.00E+00	8.12E+00
		BaLa-140	<1.35E+01	0.00E+00	1.35E+01
		Be-7	<5.23E+01	0.00E+00	5.23E+01
		K-40	<9.00E+01	0.00E+00	9.00E+01
		H3GW	3.11E+02	5.92E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265079	8/19/2013 - 8/19/2013	Mn-54	<4.74E+00	0.00E+00	4.74E+00
		Co-58	<5.32E+00	0.00E+00	5.32E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<7.23E+00	0.00E+00	7.23E+00
		Zn-65	<1.32E+01	0.00E+00	1.32E+01
		Zr-95	<9.91E+00	0.00E+00	9.91E+00
		Nb-95	<5.43E+00	0.00E+00	5.43E+00
		I-131	<6.76E+00	0.00E+00	6.76E+00
		Cs-134	<4.82E+00	0.00E+00	4.82E+00
		Cs-137	<5.84E+00	0.00E+00	5.84E+00
		BaLa-140	<8.30E+00	0.00E+00	8.30E+00
		Be-7	<4.44E+01	0.00E+00	4.44E+01
		K-40	1.51E+02	3.37E+01	6.27E+01
		H3GW	4.27E+02	5.86E+01	1.69E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275166	11/19/2013 - 11/19/2013	Mn-54	<6.75E+00	0.00E+00	6.75E+00
		Co-58	<5.86E+00	0.00E+00	5.86E+00
		Fe-59	<1.50E+01	0.00E+00	1.50E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 78 [ INDICATOR - S @ 0.5 miles ]

Sample ID:	275166	Sample Dates:	11/19/2013 - 11/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Co-60	<9.62E+00	0.00E+00	9.62E+00
				Zn-65	<1.33E+01	0.00E+00	1.33E+01
				Zr-95	<1.33E+01	0.00E+00	1.33E+01
				Nb-95	<7.83E+00	0.00E+00	7.83E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<6.88E+00	0.00E+00	6.88E+00
				Cs-137	<9.01E+00	0.00E+00	9.01E+00
				BaLa-140	<9.61E+00	0.00E+00	9.61E+00
				Be-7	<5.92E+01	0.00E+00	5.92E+01
				K-40	3.26E+02	4.86E+01	6.23E+01
				H3GW	4.92E+02	7.03E+01	2.04E+02

Sample Point 79 [ INDICATOR - S @ 0.5 miles ]

Sample ID:	253785	Sample Dates:	2/20/2013 - 2/20/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<1.05E+01	0.00E+00	1.05E+01
				Co-58	<1.00E+01	0.00E+00	1.00E+01
				Fe-59	<1.73E+01	0.00E+00	1.73E+01
				Co-60	<1.24E+01	0.00E+00	1.24E+01
				Zn-65	<2.14E+01	0.00E+00	2.14E+01
				Zr-95	<1.14E+01	0.00E+00	1.14E+01
				Nb-95	<1.07E+01	0.00E+00	1.07E+01
				I-131	<9.21E+00	0.00E+00	9.21E+00
				Cs-134	<1.00E+01	0.00E+00	1.00E+01
				Cs-137	<8.64E+00	0.00E+00	8.64E+00
				BaLa-140	<1.36E+01	0.00E+00	1.36E+01
				Be-7	<7.31E+01	0.00E+00	7.31E+01
				K-40	1.86E+02	3.87E+01	7.41E+01
				H3GW	3.76E+02	5.99E+01	1.77E+02

Sample ID:	257807	Sample Dates:	5/15/2013 - 5/15/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<6.08E+00	0.00E+00	6.08E+00
				Co-58	<8.98E+00	0.00E+00	8.98E+00
				Fe-59	<1.68E+01	0.00E+00	1.68E+01
				Co-60	<1.22E+01	0.00E+00	1.22E+01
				Zn-65	<1.68E+01	0.00E+00	1.68E+01
				Zr-95	<1.43E+01	0.00E+00	1.43E+01
				Nb-95	<9.38E+00	0.00E+00	9.38E+00
				I-131	<9.96E+00	0.00E+00	9.96E+00
				Cs-134	<8.13E+00	0.00E+00	8.13E+00
				Cs-137	<7.34E+00	0.00E+00	7.34E+00
				BaLa-140	<1.13E+01	0.00E+00	1.13E+01
				Be-7	<5.18E+01	0.00E+00	5.18E+01
				K-40	2.73E+02	4.16E+01	8.02E+01
				H3GW	3.74E+02	6.12E+01	1.80E+02

Sample ID:	265080	Sample Dates:	8/19/2013 - 8/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<6.87E+00	0.00E+00	6.87E+00
				Co-58	<7.65E+00	0.00E+00	7.65E+00
				Fe-59	<1.39E+01	0.00E+00	1.39E+01
				Co-60	<7.90E+00	0.00E+00	7.90E+00
				Zn-65	<1.69E+01	0.00E+00	1.69E+01
				Zr-95	<1.24E+01	0.00E+00	1.24E+01
				Nb-95	<9.55E+00	0.00E+00	9.55E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<7.23E+00	0.00E+00	7.23E+00
				Cs-137	<9.54E+00	0.00E+00	9.54E+00
				BaLa-140	<8.58E+00	0.00E+00	8.58E+00
				Be-7	<6.52E+01	0.00E+00	6.52E+01
				K-40	<1.34E+02	0.00E+00	1.34E+02
				H3GW	4.10E+02	5.85E+01	1.70E+02

Sample ID:	275167	Sample Dates:	11/19/2013 - 11/19/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<6.93E+00	0.00E+00	6.93E+00
				Co-58	<6.60E+00	0.00E+00	6.60E+00
				Fe-59	<1.43E+01	0.00E+00	1.43E+01
				Co-60	<1.15E+01	0.00E+00	1.15E+01
				Zn-65	<9.66E+00	0.00E+00	9.66E+00
				Zr-95	<1.27E+01	0.00E+00	1.27E+01





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 79 [ INDICATOR - S @ 0.5 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275167	11/19/2013 - 11/19/2013	Nb-95	<6.08E+00	0.00E+00	6.08E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<6.76E+00	0.00E+00	6.76E+00
		Cs-137	<7.49E+00	0.00E+00	7.49E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<5.79E+01	0.00E+00	5.79E+01
		K-40	1.04E+02	3.45E+01	1.05E+02
		H3GW	3.65E+02	6.92E+01	2.07E+02

Sample Point 80 [ INDICATOR - S @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253786	2/20/2013 - 2/20/2013	Mn-54	<5.81E+00	0.00E+00	5.81E+00
		Co-58	<5.74E+00	0.00E+00	5.74E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<7.84E+00	0.00E+00	7.84E+00
		Zn-65	<1.25E+01	0.00E+00	1.25E+01
		Zr-95	<1.11E+01	0.00E+00	1.11E+01
		Nb-95	<5.27E+00	0.00E+00	5.27E+00
		I-131	<6.47E+00	0.00E+00	6.47E+00
		Cs-134	<5.17E+00	0.00E+00	5.17E+00
		Cs-137	<7.17E+00	0.00E+00	7.17E+00
		BaLa-140	<8.36E+00	0.00E+00	8.36E+00
		Be-7	<4.24E+01	0.00E+00	4.24E+01
		K-40	1.16E+02	2.52E+01	4.98E+01
		H3GW	1.02E+03	6.93E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257808	5/15/2013 - 5/15/2013	Mn-54	<7.54E+00	0.00E+00	7.54E+00
		Co-58	<1.02E+01	0.00E+00	1.02E+01
		Fe-59	<1.76E+01	0.00E+00	1.76E+01
		Co-60	<1.16E+01	0.00E+00	1.16E+01
		Zn-65	<2.01E+01	0.00E+00	2.01E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<9.34E+00	0.00E+00	9.34E+00
		I-131	<9.49E+00	0.00E+00	9.49E+00
		Cs-134	<7.16E+00	0.00E+00	7.16E+00
		Cs-137	<7.91E+00	0.00E+00	7.91E+00
		BaLa-140	<1.12E+01	0.00E+00	1.12E+01
		Be-7	<7.59E+01	0.00E+00	7.59E+01
		K-40	<1.77E+02	0.00E+00	1.77E+02
		H3GW	7.76E+02	6.72E+01	1.80E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265081	8/19/2013 - 8/19/2013	Mn-54	<7.90E+00	0.00E+00	7.90E+00
		Co-58	<7.70E+00	0.00E+00	7.70E+00
		Fe-59	<1.59E+01	0.00E+00	1.59E+01
		Co-60	<9.00E+00	0.00E+00	9.00E+00
		Zn-65	<1.58E+01	0.00E+00	1.58E+01
		Zr-95	<1.22E+01	0.00E+00	1.22E+01
		Nb-95	<6.41E+00	0.00E+00	6.41E+00
		I-131	<7.07E+00	0.00E+00	7.07E+00
		Cs-134	<7.54E+00	0.00E+00	7.54E+00
		Cs-137	<8.62E+00	0.00E+00	8.62E+00
		BaLa-140	<9.28E+00	0.00E+00	9.28E+00
		Be-7	<5.35E+01	0.00E+00	5.35E+01
		K-40	1.46E+02	4.19E+01	6.48E+01
		H3GW	7.22E+02	6.29E+01	1.68E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275168	11/19/2013 - 11/19/2013	Mn-54	<1.01E+01	0.00E+00	1.01E+01
		Co-58	<7.90E+00	0.00E+00	7.90E+00
		Fe-59	<1.94E+01	0.00E+00	1.94E+01
		Co-60	<1.23E+01	0.00E+00	1.23E+01
		Zn-65	<2.21E+01	0.00E+00	2.21E+01
		Zr-95	<1.36E+01	0.00E+00	1.36E+01
		Nb-95	<7.14E+00	0.00E+00	7.14E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<9.32E+00	0.00E+00	9.32E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 80 [ INDICATOR - S @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275168	11/19/2013 - 11/19/2013	Cs-137	<8.82E+00	0.00E+00	8.82E+00
		BaLa-140	<1.30E+01	0.00E+00	1.30E+01
		Be-7	<8.79E+01	0.00E+00	8.79E+01
		K-40	2.57E+02	6.17E+01	1.26E+02
		H3GW	5.70E+02	7.25E+01	2.07E+02

Sample Point 81 [ INDICATOR - S @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253787	2/20/2013 - 2/20/2013	Mn-54	<6.69E+00	0.00E+00	6.69E+00
		Co-58	<1.01E+01	0.00E+00	1.01E+01
		Fe-59	<1.77E+01	0.00E+00	1.77E+01
		Co-60	<1.23E+01	0.00E+00	1.23E+01
		Zn-65	<1.70E+01	0.00E+00	1.70E+01
		Zr-95	<1.30E+01	0.00E+00	1.30E+01
		Nb-95	<8.73E+00	0.00E+00	8.73E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<9.26E+00	0.00E+00	9.26E+00
		Cs-137	<1.08E+01	0.00E+00	1.08E+01
		BaLa-140	<1.39E+01	0.00E+00	1.39E+01
		Be-7	<7.15E+01	0.00E+00	7.15E+01
		K-40	1.65E+02	5.60E+01	1.04E+02
		H3GW	4.00E+02	6.03E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257809	5/23/2013 - 5/23/2013	Mn-54	<3.90E+00	0.00E+00	3.90E+00
		Co-58	<4.33E+00	0.00E+00	4.33E+00
		Fe-59	<8.41E+00	0.00E+00	8.41E+00
		Co-60	<4.17E+00	0.00E+00	4.17E+00
		Zn-65	<9.10E+00	0.00E+00	9.10E+00
		Zr-95	<6.99E+00	0.00E+00	6.99E+00
		Nb-95	<4.02E+00	0.00E+00	4.02E+00
		I-131	<6.13E+00	0.00E+00	6.13E+00
		Cs-134	<4.21E+00	0.00E+00	4.21E+00
		Cs-137	<5.16E+00	0.00E+00	5.16E+00
		BaLa-140	<6.79E+00	0.00E+00	6.79E+00
		Be-7	<3.51E+01	0.00E+00	3.51E+01
		K-40	9.57E+01	3.71E+01	4.80E+01
		H3GW	4.27E+02	5.90E+01	1.71E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265082	8/19/2013 - 8/19/2013	Mn-54	<9.32E+00	0.00E+00	9.32E+00
		Co-58	<8.57E+00	0.00E+00	8.57E+00
		Fe-59	<1.80E+01	0.00E+00	1.80E+01
		Co-60	<9.53E+00	0.00E+00	9.53E+00
		Zn-65	<2.05E+01	0.00E+00	2.05E+01
		Zr-95	<1.43E+01	0.00E+00	1.43E+01
		Nb-95	<8.33E+00	0.00E+00	8.33E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<8.07E+00	0.00E+00	8.07E+00
		Cs-137	<9.31E+00	0.00E+00	9.31E+00
		BaLa-140	<1.34E+01	0.00E+00	1.34E+01
		Be-7	<6.85E+01	0.00E+00	6.85E+01
		K-40	4.10E+02	5.47E+01	1.66E+01
		H3GW	5.12E+02	5.99E+01	1.69E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275169	11/20/2013 - 11/20/2013	Mn-54	<6.12E+00	0.00E+00	6.12E+00
		Co-58	<7.17E+00	0.00E+00	7.17E+00
		Fe-59	<1.10E+01	0.00E+00	1.10E+01
		Co-60	<7.77E+00	0.00E+00	7.77E+00
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.38E+01	0.00E+00	1.38E+01
		Nb-95	<8.64E+00	0.00E+00	8.64E+00
		I-131	<1.22E+01	0.00E+00	1.22E+01
		Cs-134	<7.10E+00	0.00E+00	7.10E+00
		Cs-137	<6.63E+00	0.00E+00	6.63E+00
		BaLa-140	<1.20E+01	0.00E+00	1.20E+01
		Be-7	<5.96E+01	0.00E+00	5.96E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 81 [ INDICATOR - S @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275169	11/20/2013 - 11/20/2013	K-40	3.27E+02	4.84E+01	6.69E+01
		H3GW	3.75E+02	6.70E+01	1.99E+02

Sample Point 82 [ INDICATOR - S @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253788	2/20/2013 - 2/20/2013	Mn-54	<8.71E+00	0.00E+00	8.71E+00
		Co-58	<5.44E+00	0.00E+00	5.44E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<9.30E+00	0.00E+00	9.30E+00
		Zn-65	<1.59E+01	0.00E+00	1.59E+01
		Zr-95	<1.43E+01	0.00E+00	1.43E+01
		Nb-95	<7.45E+00	0.00E+00	7.45E+00
		I-131	<8.32E+00	0.00E+00	8.32E+00
		Cs-134	<6.86E+00	0.00E+00	6.86E+00
		Cs-137	<8.72E+00	0.00E+00	8.72E+00
		BaLa-140	<7.20E+00	0.00E+00	7.20E+00
		Be-7	<5.09E+01	0.00E+00	5.09E+01
		K-40	1.58E+02	5.46E+01	1.01E+02
		H3GW	<2.24E+01	0.00E+00	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257810	5/15/2013 - 5/15/2013	Mn-54	<8.25E+00	0.00E+00	8.25E+00
		Co-58	<6.02E+00	0.00E+00	6.02E+00
		Fe-59	<1.09E+01	0.00E+00	1.09E+01
		Co-60	<6.89E+00	0.00E+00	6.89E+00
		Zn-65	<1.22E+01	0.00E+00	1.22E+01
		Zr-95	<1.42E+01	0.00E+00	1.42E+01
		Nb-95	<7.06E+00	0.00E+00	7.06E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<7.00E+00	0.00E+00	7.00E+00
		Cs-137	<6.67E+00	0.00E+00	6.67E+00
		BaLa-140	<1.09E+01	0.00E+00	1.09E+01
		Be-7	<4.99E+01	0.00E+00	4.99E+01
		K-40	4.89E+02	4.69E+01	4.79E+01
		H3GW	<4.71E+00	0.00E+00	1.91E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265083	8/19/2013 - 8/19/2013	Mn-54	<8.89E+00	0.00E+00	8.89E+00
		Co-58	<7.11E+00	0.00E+00	7.11E+00
		Fe-59	<2.01E+01	0.00E+00	2.01E+01
		Co-60	<9.87E+00	0.00E+00	9.87E+00
		Zn-65	<1.45E+01	0.00E+00	1.45E+01
		Zr-95	<1.36E+01	0.00E+00	1.36E+01
		Nb-95	<1.17E+01	0.00E+00	1.17E+01
		I-131	<9.08E+00	0.00E+00	9.08E+00
		Cs-134	<8.04E+00	0.00E+00	8.04E+00
		Cs-137	<8.09E+00	0.00E+00	8.09E+00
		BaLa-140	<9.27E+00	0.00E+00	9.27E+00
		Be-7	<7.58E+01	0.00E+00	7.58E+01
		K-40	1.67E+02	4.84E+01	9.80E+01
		H3GW	<6.09E+01	0.00E+00	1.70E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275170	11/19/2013 - 11/19/2013	Mn-54	<7.30E+00	0.00E+00	7.30E+00
		Co-58	<7.06E+00	0.00E+00	7.06E+00
		Fe-59	<1.57E+01	0.00E+00	1.57E+01
		Co-60	<8.40E+00	0.00E+00	8.40E+00
		Zn-65	<1.22E+01	0.00E+00	1.22E+01
		Zr-95	<1.26E+01	0.00E+00	1.26E+01
		Nb-95	<6.11E+00	0.00E+00	6.11E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<5.70E+00	0.00E+00	5.70E+00
		Cs-137	<6.13E+00	0.00E+00	6.13E+00
		BaLa-140	<9.01E+00	0.00E+00	9.01E+00
		Be-7	<5.50E+01	0.00E+00	5.50E+01
		K-40	3.34E+02	4.37E+01	5.41E+01
		H3GW	<1.85E+01	0.00E+00	1.99E+02



## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pC/l

Sample Point 83 [ INDICATOR - SSW @ 1.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253789	2/20/2013 - 2/20/2013	Mn-54	<8.30E+00	0.00E+00	8.30E+00
		Co-58	<7.55E+00	0.00E+00	7.55E+00
		Fe-59	<1.61E+01	0.00E+00	1.61E+01
		Co-60	<6.60E+00	0.00E+00	6.60E+00
		Zn-65	<1.59E+01	0.00E+00	1.59E+01
		Zr-95	<1.33E+01	0.00E+00	1.33E+01
		Nb-95	<7.47E+00	0.00E+00	7.47E+00
		I-131	<9.98E+00	0.00E+00	9.98E+00
		Cs-134	<7.46E+00	0.00E+00	7.46E+00
		Cs-137	<7.14E+00	0.00E+00	7.14E+00
		BaLa-140	<1.12E+01	0.00E+00	1.12E+01
		Be-7	<6.79E+01	0.00E+00	6.79E+01
		K-40	3.81E+02	5.94E+01	7.18E+01
		H3GW	2.61E+03	8.80E+01	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257811	5/15/2013 - 5/15/2013	Mn-54	<7.10E+00	0.00E+00	7.10E+00
		Co-58	<6.73E+00	0.00E+00	6.73E+00
		Fe-59	<1.18E+01	0.00E+00	1.18E+01
		Co-60	<1.09E+01	0.00E+00	1.09E+01
		Zn-65	<1.23E+01	0.00E+00	1.23E+01
		Zr-95	<1.12E+01	0.00E+00	1.12E+01
		Nb-95	<7.62E+00	0.00E+00	7.62E+00
		I-131	<7.98E+00	0.00E+00	7.98E+00
		Cs-134	<5.45E+00	0.00E+00	5.45E+00
		Cs-137	<5.78E+00	0.00E+00	5.78E+00
		BaLa-140	<1.10E+01	0.00E+00	1.10E+01
		Be-7	<5.23E+01	0.00E+00	5.23E+01
		K-40	1.38E+02	3.34E+01	8.25E+01
		H3GW	2.16E+03	8.80E+01	1.94E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265084	8/19/2013 - 8/19/2013	Mn-54	<7.71E+00	0.00E+00	7.71E+00
		Co-58	<7.61E+00	0.00E+00	7.61E+00
		Fe-59	<1.38E+01	0.00E+00	1.38E+01
		Co-60	<1.09E+01	0.00E+00	1.09E+01
		Zn-65	<1.55E+01	0.00E+00	1.55E+01
		Zr-95	<1.28E+01	0.00E+00	1.28E+01
		Nb-95	<8.12E+00	0.00E+00	8.12E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<6.38E+00	0.00E+00	6.38E+00
		Cs-137	<7.50E+00	0.00E+00	7.50E+00
		BaLa-140	<9.87E+00	0.00E+00	9.87E+00
		Be-7	<6.32E+01	0.00E+00	6.32E+01
		K-40	<1.39E+02	0.00E+00	1.39E+02
		H3GW	2.01E+03	7.99E+01	1.69E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
275171	11/19/2013 - 11/19/2013	Mn-54	<7.84E+00	0.00E+00	7.84E+00
		Co-58	<8.74E+00	0.00E+00	8.74E+00
		Fe-59	<1.62E+01	0.00E+00	1.62E+01
		Co-60	<1.03E+01	0.00E+00	1.03E+01
		Zn-65	<1.45E+01	0.00E+00	1.45E+01
		Zr-95	<1.34E+01	0.00E+00	1.34E+01
		Nb-95	<1.08E+01	0.00E+00	1.08E+01
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<6.98E+00	0.00E+00	6.98E+00
		Cs-137	<7.33E+00	0.00E+00	7.33E+00
		BaLa-140	<1.15E+01	0.00E+00	1.15E+01
		Be-7	<7.92E+01	0.00E+00	7.92E+01
		K-40	2.73E+02	5.28E+01	7.95E+01
		H3GW	1.86E+03	8.83E+01	2.00E+02

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
250682	1/7/2013 - 1/7/2013	Be-7	<5.58E+00	0.00E+00	5.58E+00	COW



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
250682	1/7/2013 - 1/7/2013					COW
		K-40	<1.47E+01	0.00E+00	1.47E+01	
		LLI-131	<6.27E-01	0.00E+00	6.27E-01	
		I-131	<6.50E+00	0.00E+00	6.50E+00	
		Cs-134	<5.81E+00	0.00E+00	5.81E+00	
		Cs-137	<6.14E+00	0.00E+00	6.14E+00	
		BaLa-140	<6.76E+00	0.00E+00	6.76E+00	
		Be-7	<4.02E+01	0.00E+00	4.02E+01	
K-40	1.60E+03	7.89E+01	3.75E+01			
250822	2/4/2013 - 2/4/2013					COW
		Be-7	<4.89E+00	0.00E+00	4.89E+00	
		K-40	4.02E+01	6.16E+00	6.37E+00	
		LLI-131	<6.26E-01	0.00E+00	6.26E-01	
		I-131	<7.26E+00	0.00E+00	7.26E+00	
		Cs-134	<5.17E+00	0.00E+00	5.17E+00	
		Cs-137	<5.09E+00	0.00E+00	5.09E+00	
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01	
Be-7	3.49E+01	1.71E+01	4.25E+01			
K-40	1.36E+03	1.19E+02	1.19E+02			
251842	3/4/2013 - 3/4/2013					COW
		Be-7	<4.79E+00	0.00E+00	4.79E+00	
		K-40	2.61E+01	4.58E+00	7.42E+00	
		LLI-131	<6.48E-01	0.00E+00	6.48E-01	
		I-131	<7.23E+00	0.00E+00	7.23E+00	
		Cs-134	<5.66E+00	0.00E+00	5.66E+00	
		Cs-137	<8.32E+00	0.00E+00	8.32E+00	
		BaLa-140	<1.14E+01	0.00E+00	1.14E+01	
Be-7	<5.08E+01	0.00E+00	5.08E+01			
K-40	1.44E+03	1.08E+02	1.00E+02			
254063	4/1/2013 - 4/1/2013					COW
		Be-7	<5.08E+00	0.00E+00	5.08E+00	
		K-40	1.52E+01	2.97E+00	8.34E+00	
		LLI-131	<6.17E-01	0.00E+00	6.17E-01	
		I-131	<7.27E+00	0.00E+00	7.27E+00	
		Cs-134	<4.88E+00	0.00E+00	4.88E+00	
		Cs-137	<4.61E+00	0.00E+00	4.61E+00	
		BaLa-140	<7.07E+00	0.00E+00	7.07E+00	
Be-7	<4.81E+01	0.00E+00	4.81E+01			
K-40	1.82E+03	8.53E+01	5.55E+01			
255987	5/6/2013 - 5/6/2013					COW
		Be-7	<5.45E+00	0.00E+00	5.45E+00	
		K-40	2.81E+01	4.05E+00	6.63E+00	
		LLI-131	<5.85E-01	0.00E+00	5.85E-01	
		I-131	<1.45E+01	0.00E+00	1.45E+01	
		Cs-134	<9.84E-01	0.00E+00	9.84E-01	
		Cs-137	<1.06E+00	0.00E+00	1.06E+00	
		BaLa-140	<5.08E+00	0.00E+00	5.08E+00	
Be-7	<1.23E+01	0.00E+00	1.23E+01			
K-40	1.56E+03	1.74E+01	9.79E+00			
257923	6/3/2013 - 6/3/2013					COW
		Be-7	<4.44E+00	0.00E+00	4.44E+00	
		K-40	2.27E+01	3.76E+00	5.90E+00	
		LLI-131	<5.78E-01	0.00E+00	5.78E-01	
		I-131	<4.54E+00	0.00E+00	4.54E+00	
		Cs-134	<5.37E+00	0.00E+00	5.37E+00	
		Cs-137	<6.00E+00	0.00E+00	6.00E+00	
		BaLa-140	<4.50E+00	0.00E+00	4.50E+00	
Be-7	<4.51E+01	0.00E+00	4.51E+01			
K-40	1.64E+03	8.11E+01	2.87E+01			
259431	7/1/2013 - 7/1/2013					COW
		Be-7	<3.93E+00	0.00E+00	3.93E+00	
		K-40	1.80E+01	4.20E+00	7.74E+00	
		LLI-131	<6.04E-01	0.00E+00	6.04E-01	
I-131	<5.28E+00	0.00E+00	5.28E+00			



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
259431	7/1/2013 - 7/1/2013					COW
		Cs-134	<5.48E+00	0.00E+00	5.48E+00	
		Cs-137	<5.12E+00	0.00E+00	5.12E+00	
		BaLa-140	<6.17E+00	0.00E+00	6.17E+00	
		Be-7	<4.22E+01	0.00E+00	4.22E+01	
		K-40	1.56E+03	8.25E+01	6.00E+01	
261556	8/5/2013 - 8/5/2013					COW
		Be-7	<3.86E+00	0.00E+00	3.86E+00	
		K-40	2.49E+01	6.05E+00	5.19E+00	
		LLI-131	<5.21E-01	0.00E+00	5.21E-01	
		I-131	<4.62E+00	0.00E+00	4.62E+00	
		Cs-134	<5.92E+00	0.00E+00	5.92E+00	
		Cs-137	<6.67E+00	0.00E+00	6.67E+00	
		BaLa-140	<7.29E+00	0.00E+00	7.29E+00	
		Be-7	<4.37E+01	0.00E+00	4.37E+01	
				K-40	1.65E+03	
263617	9/3/2013 - 9/3/2013					COW
		Be-7	<4.99E+00	0.00E+00	4.99E+00	
		K-40	1.63E+01	4.29E+00	8.63E+00	
		LLI-131	<6.28E-01	0.00E+00	6.28E-01	
		I-131	<5.94E+00	0.00E+00	5.94E+00	
		Cs-134	<5.21E+00	0.00E+00	5.21E+00	
		Cs-137	<6.18E+00	0.00E+00	6.18E+00	
		BaLa-140	<5.46E+00	0.00E+00	5.46E+00	
		Be-7	<5.24E+01	0.00E+00	5.24E+01	
				K-40	1.51E+03	
267468	10/7/2013 - 10/7/2013					COW
		Be-7	<4.24E+00	0.00E+00	4.24E+00	
		K-40	2.44E+01	4.70E+00	5.54E+00	
		LLI-131	<6.32E-01	0.00E+00	6.32E-01	
		I-131	<5.92E+00	0.00E+00	5.92E+00	
		Cs-134	<5.86E+00	0.00E+00	5.86E+00	
		Cs-137	<4.58E+00	0.00E+00	4.58E+00	
		BaLa-140	<6.24E+00	0.00E+00	6.24E+00	
		Be-7	<4.37E+01	0.00E+00	4.37E+01	
				K-40	1.42E+03	
271976	11/4/2013 - 11/4/2013					COW
		Be-7	<4.84E+00	0.00E+00	4.84E+00	
		K-40	1.67E+01	4.69E+00	9.17E+00	
		LLI-131	<6.34E-01	0.00E+00	6.34E-01	
		I-131	<8.50E+00	0.00E+00	8.50E+00	
		Cs-134	<5.82E+00	0.00E+00	5.82E+00	
		Cs-137	<9.36E+00	0.00E+00	9.36E+00	
		BaLa-140	<1.21E+01	0.00E+00	1.21E+01	
		Be-7	<4.74E+01	0.00E+00	4.74E+01	
				K-40	1.40E+03	
274350	12/2/2013 - 12/2/2013					COW
		Be-7	<2.62E+00	0.00E+00	2.62E+00	
		K-40	4.56E+01	2.54E+00	3.44E+00	
		LLI-131	<9.25E-01	0.00E+00	9.25E-01	
		I-131	<6.39E+00	0.00E+00	6.39E+00	
		Cs-134	<3.91E+00	0.00E+00	3.91E+00	
		Cs-137	<6.73E+00	0.00E+00	6.73E+00	
		BaLa-140	<5.71E+00	0.00E+00	5.71E+00	
		Be-7	<4.54E+01	0.00E+00	4.54E+01	
				K-40	1.63E+03	

Media Type: SEDIMENT\_BOTTOM Concentration (Activity): pCi/kg

Sample Point 52 [ INDICATOR - S @ 3.8 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251246	1/22/2013 - 1/22/2013	Mn-54	<2.84E+01	0.00E+00	2.84E+01
		Co-58	2.84E+01	9.44E+00	2.51E+01
		Fe-59	<6.26E+01	0.00E+00	6.26E+01
		Co-60	2.40E+02	2.31E+01	2.71E+01



## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SEDIMENT\_BOTTOM Concentration (Activity): pCi/kg

Sample Point 52 [ INDICATOR - S @ 3.8 miles ]

Sample ID:	251246	Sample Dates:	1/22/2013 - 1/22/2013	Nuclide	Activity	1 Sigma Error	LLD
				Zn-65	<5.93E+01	0.00E+00	5.93E+01
				Zr-95	<4.15E+01	0.00E+00	4.15E+01
				Nb-95	<2.66E+01	0.00E+00	2.66E+01
				I-131	<3.35E+01	0.00E+00	3.35E+01
				Cs-134	<2.05E+01	0.00E+00	2.05E+01
				Cs-137	1.59E+02	1.22E+01	2.33E+01
				Be-7	4.96E+02	1.17E+02	1.70E+02
				K-40	8.75E+03	3.19E+02	2.25E+02
				Co-57	<1.45E+01	0.00E+00	1.45E+01
				Mo-99	<1.25E+03	0.00E+00	1.25E+03
				Ag-110M	<2.10E+01	0.00E+00	2.10E+01
				Sb-122	<2.21E+02	0.00E+00	2.21E+02
				Sb-125	<6.89E+01	0.00E+00	6.89E+01

Sample ID:	263085	Sample Dates:	7/10/2013 - 7/10/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<1.44E+01	0.00E+00	1.44E+01
				Co-58	<1.26E+01	0.00E+00	1.26E+01
				Fe-59	<3.06E+01	0.00E+00	3.06E+01
				Co-60	6.00E+02	1.51E+01	1.36E+01
				Zn-65	<3.16E+01	0.00E+00	3.16E+01
				Zr-95	<2.54E+01	0.00E+00	2.54E+01
				Nb-95	<1.48E+01	0.00E+00	1.48E+01
				I-131	<2.12E+01	0.00E+00	2.12E+01
				Cs-134	<1.11E+01	0.00E+00	1.11E+01
				Cs-137	2.28E+02	8.66E+00	1.27E+01
				Be-7	1.36E+02	4.31E+01	1.04E+02
				K-40	1.10E+04	1.90E+02	9.45E+01
				Co-57	<9.63E+00	0.00E+00	9.63E+00
				Mo-99	<7.03E+02	0.00E+00	7.03E+02
				Ag-110M	<1.18E+01	0.00E+00	1.18E+01
				Sb-122	<1.14E+02	0.00E+00	1.14E+02
				Sb-125	7.70E+01	1.64E+01	3.16E+01

Media Type: SEDIMENT\_SHORE Concentration (Activity): pCi/kg

Sample Point 26 [ INDICATOR - S @ 4.6 miles ]

Sample ID:	251244	Sample Dates:	1/22/2013 - 1/22/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<1.67E+01	0.00E+00	1.67E+01
				Co-58	<1.90E+01	0.00E+00	1.90E+01
				Fe-59	<5.01E+01	0.00E+00	5.01E+01
				Co-60	<3.12E+01	0.00E+00	3.12E+01
				Zn-65	<5.60E+01	0.00E+00	5.60E+01
				Zr-95	<2.91E+01	0.00E+00	2.91E+01
				Nb-95	<2.16E+01	0.00E+00	2.16E+01
				I-131	<2.97E+01	0.00E+00	2.97E+01
				Cs-134	<1.70E+01	0.00E+00	1.70E+01
				Cs-137	<1.61E+01	0.00E+00	1.61E+01
				Be-7	1.88E+02	7.41E+01	1.31E+02
				K-40	8.62E+03	3.63E+02	1.84E+02
				Co-57	<1.28E+01	0.00E+00	1.28E+01
				Mo-99	<7.55E+02	0.00E+00	7.55E+02
				Ag-110M	<1.68E+01	0.00E+00	1.68E+01
				Sb-122	<1.22E+02	0.00E+00	1.22E+02
				Sb-125	<4.99E+01	0.00E+00	4.99E+01

Sample ID:	263083	Sample Dates:	7/10/2013 - 7/10/2013	Nuclide	Activity	1 Sigma Error	LLD
				Mn-54	<1.47E+01	0.00E+00	1.47E+01
				Co-58	<1.39E+01	0.00E+00	1.39E+01
				Fe-59	<3.59E+01	0.00E+00	3.59E+01
				Co-60	<1.50E+01	0.00E+00	1.50E+01
				Zn-65	<3.32E+01	0.00E+00	3.32E+01
				Zr-95	<2.53E+01	0.00E+00	2.53E+01
				Nb-95	<1.58E+01	0.00E+00	1.58E+01
				I-131	<2.15E+01	0.00E+00	2.15E+01
				Cs-134	<1.29E+01	0.00E+00	1.29E+01
				Cs-137	<1.40E+01	0.00E+00	1.40E+01
				Be-7	<1.44E+02	0.00E+00	1.44E+02
				K-40	9.94E+03	2.84E+02	1.18E+02



## Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SEDIMENT\_SHORE Concentration (Activity): pCi/kg

Sample Point 26 [ INDICATOR - S @ 4.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
263083	7/10/2013 - 7/10/2013	Co-57	<7.94E+00	0.00E+00	7.94E+00
		Mo-99	<7.11E+02	0.00E+00	7.11E+02
		Ag-110M	<1.27E+01	0.00E+00	1.27E+01
		Sb-122	<1.17E+02	0.00E+00	1.17E+02
		Sb-125	<3.46E+01	0.00E+00	3.46E+01

Sample Point 41 [ INDICATOR - S @ 3.8 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251245	1/22/2013 - 1/22/2013	Mn-54	<1.66E+01	0.00E+00	1.66E+01
		Co-58	<1.29E+01	0.00E+00	1.29E+01
		Fe-59	<3.84E+01	0.00E+00	3.84E+01
		Co-60	<1.88E+01	0.00E+00	1.88E+01
		Zn-65	<3.73E+01	0.00E+00	3.73E+01
		Zr-95	<2.84E+01	0.00E+00	2.84E+01
		Nb-95	<1.68E+01	0.00E+00	1.68E+01
		I-131	<1.94E+01	0.00E+00	1.94E+01
		Cs-134	<1.14E+01	0.00E+00	1.14E+01
		Cs-137	<1.67E+01	0.00E+00	1.67E+01
		Be-7	1.77E+02	5.15E+01	9.80E+01
		K-40	1.11E+04	3.03E+02	1.49E+02
		Co-57	<8.14E+00	0.00E+00	8.14E+00
		Mo-99	<5.21E+02	0.00E+00	5.21E+02
		Ag-110M	<1.22E+01	0.00E+00	1.22E+01
		Sb-122	<7.98E+01	0.00E+00	7.98E+01
		Sb-125	<3.05E+01	0.00E+00	3.05E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
263084	7/10/2013 - 7/10/2013	Mn-54	<2.06E+01	0.00E+00	2.06E+01
		Co-58	<1.80E+01	0.00E+00	1.80E+01
		Fe-59	<4.54E+01	0.00E+00	4.54E+01
		Co-60	<1.96E+01	0.00E+00	1.96E+01
		Zn-65	<4.50E+01	0.00E+00	4.50E+01
		Zr-95	<4.11E+01	0.00E+00	4.11E+01
		Nb-95	<1.86E+01	0.00E+00	1.86E+01
		I-131	<3.15E+01	0.00E+00	3.15E+01
		Cs-134	<1.51E+01	0.00E+00	1.51E+01
		Cs-137	<1.99E+01	0.00E+00	1.99E+01
		Be-7	<1.90E+02	0.00E+00	1.90E+02
		K-40	1.07E+04	3.84E+02	2.62E+02
		Co-57	<1.21E+01	0.00E+00	1.21E+01
		Mo-99	<1.07E+03	0.00E+00	1.07E+03
		Ag-110M	<1.43E+01	0.00E+00	1.43E+01
		Sb-122	<1.62E+02	0.00E+00	1.62E+02
		Sb-125	<4.13E+01	0.00E+00	4.13E+01

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251058	12/31/2012 - 1/14/2013	Be-7	<2.65E+00	0.00E+00	2.65E+00
		K-40	4.36E+01	2.86E+00	3.24E+00
		LLI-131	<5.61E-01	0.00E+00	5.61E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251834	1/14/2013 - 1/28/2013	Be-7	<2.50E+00	0.00E+00	2.50E+00
		K-40	8.04E+00	2.19E+00	4.37E+00
		LLI-131	<4.89E-01	0.00E+00	4.89E-01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251864	12/31/2012 - 1/28/2013	Beta	4.70E+00	4.81E-01	1.29E+00
		Mn-54	<3.45E+00	0.00E+00	3.45E+00
		Co-58	<4.16E+00	0.00E+00	4.16E+00
		Fe-59	<6.92E+00	0.00E+00	6.92E+00
		Co-60	<4.72E+00	0.00E+00	4.72E+00
		Zn-65	<7.96E+00	0.00E+00	7.96E+00
		Zr-95	<6.46E+00	0.00E+00	6.46E+00
		Nb-95	<3.89E+00	0.00E+00	3.89E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251864	12/31/2012 - 1/28/2013	Cs-134	<3.05E+00	0.00E+00	3.05E+00
		Cs-137	<3.50E+00	0.00E+00	3.50E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	7.27E+01	2.36E+01	4.38E+01
		H3SW	8.43E+03	1.35E+02	1.61E+02
252917	1/28/2013 - 2/11/2013	Be-7	<4.31E+00	0.00E+00	4.31E+00
		K-40	1.02E+01	3.79E+00	6.77E+00
		LLI-131	<6.50E-01	0.00E+00	6.50E-01
254113	2/11/2013 - 2/25/2013	Be-7	<2.51E+00	0.00E+00	2.51E+00
		K-40	2.70E+01	2.26E+00	3.21E+00
		LLI-131	<6.07E-01	0.00E+00	6.07E-01
254118	1/28/2013 - 2/25/2013	Beta	4.16E+00	4.96E-01	1.41E+00
		Mn-54	<3.08E+00	0.00E+00	3.08E+00
		Co-58	<4.24E+00	0.00E+00	4.24E+00
		Fe-59	<9.73E+00	0.00E+00	9.73E+00
		Co-60	<4.22E+00	0.00E+00	4.22E+00
		Zn-65	<7.90E+00	0.00E+00	7.90E+00
		Zr-95	<7.65E+00	0.00E+00	7.65E+00
		Nb-95	<5.69E+00	0.00E+00	5.69E+00
		I-131	<1.40E+01	0.00E+00	1.40E+01
		Cs-134	<3.26E+00	0.00E+00	3.26E+00
		Cs-137	<4.34E+00	0.00E+00	4.34E+00
		BaLa-140	<5.65E+00	0.00E+00	5.65E+00
		Be-7	<3.26E+01	0.00E+00	3.26E+01
		K-40	6.42E+01	2.34E+01	3.65E+01
		H3SW	9.25E+03	1.38E+02	1.54E+02
		255080	2/25/2013 - 3/11/2013	Be-7	<3.10E+00
K-40	2.23E+01			3.36E+00	4.96E+00
LLI-131	<6.47E-01			0.00E+00	6.47E-01
255972	3/11/2013 - 3/25/2013	Be-7	<1.86E+00	0.00E+00	1.86E+00
		K-40	1.27E+01	1.80E+00	2.31E+00
		LLI-131	<6.01E-01	0.00E+00	6.01E-01
255976	2/25/2013 - 3/25/2013	Beta	5.03E+00	4.98E-01	1.34E+00
		Mn-54	<9.28E-01	0.00E+00	9.28E-01
		Co-58	<1.07E+00	0.00E+00	1.07E+00
		Fe-59	<2.86E+00	0.00E+00	2.86E+00
		Co-60	<9.82E-01	0.00E+00	9.82E-01
		Zn-65	<1.99E+00	0.00E+00	1.99E+00
		Zr-95	<2.17E+00	0.00E+00	2.17E+00
		Nb-95	<1.76E+00	0.00E+00	1.76E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<8.19E-01	0.00E+00	8.19E-01
		Cs-137	<9.11E-01	0.00E+00	9.11E-01
		BaLa-140	<5.66E+00	0.00E+00	5.66E+00
		Be-7	<1.12E+01	0.00E+00	1.12E+01
		K-40	7.26E+01	7.04E+00	9.65E+00
		H3SW	8.48E+03	1.39E+02	1.78E+02
		256457	3/25/2013 - 4/8/2013	Be-7	<2.35E+00
K-40	2.20E+01			2.44E+00	3.92E+00
LLI-131	<6.04E-01			0.00E+00	6.04E-01
256981	3/25/2013 - 4/22/2013	Beta	4.50E+00	4.99E-01	1.39E+00
		Mn-54	<3.78E+00	0.00E+00	3.78E+00



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256981	3/25/2013 - 4/22/2013	Co-58	<4.12E+00	0.00E+00	4.12E+00
		Fe-59	<9.59E+00	0.00E+00	9.59E+00
		Co-60	<4.78E+00	0.00E+00	4.78E+00
		Zn-65	<7.15E+00	0.00E+00	7.15E+00
		Zr-95	<5.58E+00	0.00E+00	5.58E+00
		Nb-95	<5.50E+00	0.00E+00	5.50E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.79E+00	0.00E+00	3.79E+00
		Cs-137	<3.53E+00	0.00E+00	3.53E+00
		BaLa-140	<1.26E+01	0.00E+00	1.26E+01
		Be-7	<3.60E+01	0.00E+00	3.60E+01
		K-40	7.35E+01	2.47E+01	4.93E+01
		H3SW	7.00E+03	1.25E+02	1.68E+02
256986	4/8/2013 - 4/22/2013	Be-7	<2.68E+00	0.00E+00	2.68E+00
		K-40	2.71E+01	2.59E+00	3.24E+00
		LLI-131	<6.03E-01	0.00E+00	6.03E-01
257818	4/22/2013 - 5/6/2013	Be-7	<3.55E+00	0.00E+00	3.55E+00
		K-40	2.15E+01	4.23E+00	5.12E+00
		LLI-131	<5.79E-01	0.00E+00	5.79E-01
258353	5/6/2013 - 5/20/2013	Be-7	<3.37E+00	0.00E+00	3.37E+00
		K-40	1.29E+01	2.89E+00	4.86E+00
		LLI-131	<6.28E-01	0.00E+00	6.28E-01
258357	4/22/2013 - 5/20/2013	Beta	4.30E+00	4.95E-01	1.39E+00
		Mn-54	<3.61E+00	0.00E+00	3.61E+00
		Co-58	<3.88E+00	0.00E+00	3.88E+00
		Fe-59	<7.96E+00	0.00E+00	7.96E+00
		Co-60	<5.43E+00	0.00E+00	5.43E+00
		Zn-65	<8.54E+00	0.00E+00	8.54E+00
		Zr-95	<6.33E+00	0.00E+00	6.33E+00
		Nb-95	<5.22E+00	0.00E+00	5.22E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.14E+00	0.00E+00	3.14E+00
		Cs-137	<3.01E+00	0.00E+00	3.01E+00
		BaLa-140	<9.42E+00	0.00E+00	9.42E+00
		Be-7	<3.65E+01	0.00E+00	3.65E+01
		K-40	<6.59E+01	0.00E+00	6.59E+01
H3SW	6.98E+03	1.29E+02	1.80E+02		
259177	5/20/2013 - 6/3/2013	Be-7	<2.74E+00	0.00E+00	2.74E+00
		K-40	2.19E+01	2.49E+00	3.49E+00
		LLI-131	<5.41E-01	0.00E+00	5.41E-01
260561	5/20/2013 - 6/18/2013	Beta	3.63E+00	4.97E-01	1.45E+00
		Mn-54	<3.65E+00	0.00E+00	3.65E+00
		Co-58	<3.90E+00	0.00E+00	3.90E+00
		Fe-59	<7.25E+00	0.00E+00	7.25E+00
		Co-60	<4.84E+00	0.00E+00	4.84E+00
		Zn-65	<8.22E+00	0.00E+00	8.22E+00
		Zr-95	<6.94E+00	0.00E+00	6.94E+00
		Nb-95	<4.11E+00	0.00E+00	4.11E+00
		I-131	<1.40E+01	0.00E+00	1.40E+01
		Cs-134	<3.02E+00	0.00E+00	3.02E+00
		Cs-137	<3.67E+00	0.00E+00	3.67E+00
		BaLa-140	<7.20E+00	0.00E+00	7.20E+00
		Be-7	<3.65E+01	0.00E+00	3.65E+01
		K-40	6.79E+01	1.92E+01	4.60E+01
H3SW	6.66E+03	1.28E+02	1.80E+02		



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260563	6/3/2013 - 6/18/2013	Be-7	<2.25E+00	0.00E+00	2.25E+00
		K-40	1.92E+01	2.56E+00	2.83E+00
		LLI-131	<5.47E-01	0.00E+00	5.47E-01
261857	6/18/2013 - 7/1/2013	Be-7	<2.79E+00	0.00E+00	2.79E+00
		K-40	4.15E+01	2.72E+00	3.17E+00
		LLI-131	<5.70E-01	0.00E+00	5.70E-01
263067	7/1/2013 - 7/15/2013	Be-7	<2.67E+00	0.00E+00	2.67E+00
		K-40	3.87E+01	3.14E+00	3.15E+00
		LLI-131	<6.33E-01	0.00E+00	6.33E-01
263071	6/18/2013 - 7/15/2013	Beta	4.25E+00	4.60E-01	1.25E+00
		Mn-54	<5.21E+00	0.00E+00	5.21E+00
		Co-58	<4.75E+00	0.00E+00	4.75E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<4.56E+00	0.00E+00	4.56E+00
		Zn-65	<1.07E+01	0.00E+00	1.07E+01
		Zr-95	<7.07E+00	0.00E+00	7.07E+00
		Nb-95	<5.60E+00	0.00E+00	5.60E+00
		I-131	<1.23E+01	0.00E+00	1.23E+01
		Cs-134	<4.10E+00	0.00E+00	4.10E+00
		Cs-137	<5.54E+00	0.00E+00	5.54E+00
		BaLa-140	<1.34E+01	0.00E+00	1.34E+01
		Be-7	3.21E+01	1.48E+01	4.10E+01
		K-40	5.00E+01	2.41E+01	6.44E+01
		H3SW	7.03E+03	1.28E+02	1.74E+02
264617	7/15/2013 - 7/29/2013	Be-7	<3.29E+00	0.00E+00	3.29E+00
		K-40	2.80E+01	2.76E+00	3.46E+00
		LLI-131	<6.29E-01	0.00E+00	6.29E-01
266211	7/29/2013 - 8/12/2013	Be-7	<2.70E+00	0.00E+00	2.70E+00
		K-40	1.06E+01	1.90E+00	3.19E+00
		LLI-131	<5.60E-01	0.00E+00	5.60E-01
266506	7/15/2013 - 8/12/2013	Beta	2.91E+00	4.77E-01	1.43E+00
		Mn-54	<3.54E+00	0.00E+00	3.54E+00
		Co-58	<4.33E+00	0.00E+00	4.33E+00
		Fe-59	<9.93E+00	0.00E+00	9.93E+00
		Co-60	<4.75E+00	0.00E+00	4.75E+00
		Zn-65	<8.90E+00	0.00E+00	8.90E+00
		Zr-95	<6.08E+00	0.00E+00	6.08E+00
		Nb-95	<6.03E+00	0.00E+00	6.03E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.19E+00	0.00E+00	3.19E+00
		Cs-137	<4.20E+00	0.00E+00	4.20E+00
		BaLa-140	<7.38E+00	0.00E+00	7.38E+00
		Be-7	<3.93E+01	0.00E+00	3.93E+01
		K-40	<7.30E+01	0.00E+00	7.30E+01
		H3SW	6.38E+03	1.21E+02	1.70E+02
267953	8/12/2013 - 8/26/2013	Be-7	<3.12E+00	0.00E+00	3.12E+00
		K-40	1.26E+01	3.09E+00	4.60E+00
		LLI-131	<6.43E-01	0.00E+00	6.43E-01
269889	8/26/2013 - 9/9/2013	Be-7	<2.56E+00	0.00E+00	2.56E+00
		K-40	1.73E+01	2.34E+00	3.74E+00
		LLI-131	<6.10E-01	0.00E+00	6.10E-01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269893	8/12/2013 - 9/9/2013	Beta	4.69E+00	4.87E-01	1.32E+00
		Mn-54	<4.43E+00	0.00E+00	4.43E+00
		Co-58	<3.82E+00	0.00E+00	3.82E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<4.06E+00	0.00E+00	4.06E+00
		Zn-65	<7.29E+00	0.00E+00	7.29E+00
		Zr-95	<7.30E+00	0.00E+00	7.30E+00
		Nb-95	<5.57E+00	0.00E+00	5.57E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<3.93E+00	0.00E+00	3.93E+00
		Cs-137	<4.51E+00	0.00E+00	4.51E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<3.46E+01	0.00E+00	3.46E+01
		K-40	4.98E+01	1.99E+01	3.63E+01
H3SW	6.61E+03	1.16E+02	1.50E+02		
271642	9/9/2013 - 9/23/2013	Be-7	<2.71E+00	0.00E+00	2.71E+00
		K-40	1.96E+01	2.07E+00	3.76E+00
		LLI-131	<5.75E-01	0.00E+00	5.75E-01
272603	9/23/2013 - 10/7/2013	Be-7	<2.14E+00	0.00E+00	2.14E+00
		K-40	4.21E+01	2.66E+00	2.56E+00
		LLI-131	<5.48E-01	0.00E+00	5.48E-01
272607	9/9/2013 - 10/7/2013	Beta	5.54E+00	4.84E-01	1.24E+00
		Mn-54	<3.08E+00	0.00E+00	3.08E+00
		Co-58	<3.69E+00	0.00E+00	3.69E+00
		Fe-59	<8.76E+00	0.00E+00	8.76E+00
		Co-60	<4.10E+00	0.00E+00	4.10E+00
		Zn-65	<9.79E+00	0.00E+00	9.79E+00
		Zr-95	<7.26E+00	0.00E+00	7.26E+00
		Nb-95	<4.91E+00	0.00E+00	4.91E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.11E+00	0.00E+00	3.11E+00
		Cs-137	<3.36E+00	0.00E+00	3.36E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.43E+01	0.00E+00	3.43E+01
		K-40	5.98E+01	2.39E+01	4.22E+01
H3SW	8.01E+03	1.28E+02	1.55E+02		
274162	10/7/2013 - 10/21/2013	Be-7	<2.68E+00	0.00E+00	2.68E+00
		K-40	4.50E+01	2.89E+00	3.45E+00
		LLI-131	<5.78E-01	0.00E+00	5.78E-01
274977	10/21/2013 - 11/4/2013	Be-7	<1.63E+00	0.00E+00	1.63E+00
		K-40	<4.20E+00	0.00E+00	4.20E+00
		LLI-131	<5.57E-01	0.00E+00	5.57E-01
274981	10/7/2013 - 11/4/2013	Beta	5.59E+00	4.84E-01	1.23E+00
		Mn-54	<3.29E+00	0.00E+00	3.29E+00
		Co-58	<3.51E+00	0.00E+00	3.51E+00
		Fe-59	<7.33E+00	0.00E+00	7.33E+00
		Co-60	<4.38E+00	0.00E+00	4.38E+00
		Zn-65	<7.00E+00	0.00E+00	7.00E+00
		Zr-95	<6.49E+00	0.00E+00	6.49E+00
		Nb-95	<4.88E+00	0.00E+00	4.88E+00
		I-131	<1.38E+01	0.00E+00	1.38E+01
		Cs-134	<3.17E+00	0.00E+00	3.17E+00
		Cs-137	<4.00E+00	0.00E+00	4.00E+00
		BaLa-140	<8.24E+00	0.00E+00	8.24E+00
		Be-7	<3.44E+01	0.00E+00	3.44E+01
		K-40	1.73E+02	2.45E+01	2.75E+01
H3SW	1.10E+04	1.57E+02	1.79E+02		



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
277330	11/4/2013 - 11/18/2013	Be-7	<2.50E+00	0.00E+00	2.50E+00
		K-40	1.56E+01	2.35E+00	3.47E+00
		LLI-131	<5.42E-01	0.00E+00	5.42E-01
279170	11/18/2013 - 12/2/2013	Be-7	<1.67E+00	0.00E+00	1.67E+00
		K-40	1.26E+01	1.38E+00	2.21E+00
		LLI-131	<4.02E-01	0.00E+00	4.02E-01
279174	11/4/2013 - 12/2/2013	Beta	5.58E+00	4.94E-01	1.28E+00
		Mn-54	<3.91E+00	0.00E+00	3.91E+00
		Co-58	<5.08E+00	0.00E+00	5.08E+00
		Fe-59	<8.68E+00	0.00E+00	8.68E+00
		Co-60	<4.48E+00	0.00E+00	4.48E+00
		Zn-65	<9.39E+00	0.00E+00	9.39E+00
		Zr-95	<8.75E+00	0.00E+00	8.75E+00
		Nb-95	<4.45E+00	0.00E+00	4.45E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.99E+00	0.00E+00	3.99E+00
		Cs-137	<4.08E+00	0.00E+00	4.08E+00
		BaLa-140	<7.44E+00	0.00E+00	7.44E+00
		Be-7	<4.17E+01	0.00E+00	4.17E+01
		K-40	1.76E+02	3.23E+01	4.40E+01
H3SW	1.06E+04	1.55E+02	1.70E+02		
280453	12/2/2013 - 12/16/2013	Be-7	<2.32E+00	0.00E+00	2.32E+00
		K-40	4.61E+01	2.53E+00	2.71E+00
		LLI-131	<6.02E-01	0.00E+00	6.02E-01
280958	12/16/2013 - 12/30/2013	Be-7	<1.82E+00	0.00E+00	1.82E+00
		K-40	1.53E+01	1.54E+00	2.14E+00
		LLI-131	<4.27E-01	0.00E+00	4.27E-01
280959	12/2/2013 - 12/30/2013	Beta	4.50E+00	4.55E-01	1.21E+00
		Mn-54	<4.10E+00	0.00E+00	4.10E+00
		Co-58	<3.98E+00	0.00E+00	3.98E+00
		Fe-59	<8.83E+00	0.00E+00	8.83E+00
		Co-60	<4.31E+00	0.00E+00	4.31E+00
		Zn-65	<6.09E+00	0.00E+00	6.09E+00
		Zr-95	<6.78E+00	0.00E+00	6.78E+00
		Nb-95	<5.27E+00	0.00E+00	5.27E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.28E+00	0.00E+00	3.28E+00
		Cs-137	<3.94E+00	0.00E+00	3.94E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01
		Be-7	<3.86E+01	0.00E+00	3.86E+01
		K-40	1.27E+02	2.16E+01	3.03E+01
H3SW	1.03E+04	1.66E+02	2.29E+02		

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 1 [ INDICATOR - N @ 2.6 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
114914	2/15/2013 - 2/15/2013	mR/Std Qtr	1.25E+01
262761	4/10/2013 - 7/10/2013	mR/Std Qtr	11.7
272273	7/10/2013 - 10/9/2013	mR/Std Qtr	13.4
281062	10/9/2013 - 1/9/2014	mR/Std Qtr	12.7



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 2 [ INDICATOR - NNE @ 1.4 miles ]

TLD RING TLD\_INNER

Sample ID:	114915	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.31E+01
Sample ID:	262801	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	12.5
Sample ID:	272277	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	13.1
Sample ID:	280969	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	13.1

Sample Point 3 [ INDICATOR - ENE @ 1.9 miles ]

TLD RING TLD\_INNER

Sample ID:	114916	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.10E+01
Sample ID:	262762	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.0
Sample ID:	272189	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	11.7
Sample ID:	280970	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.3

Sample Point 4 [ INDICATOR - NNE @ 3.1 miles ]

TLD RING TLD\_SPEC

Sample ID:	114917	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.11E+01
Sample ID:	262763	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.3
Sample ID:	272190	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	11.4
Sample ID:	280971	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	10.5

Sample Point 5 [ CONTROL - WNW @ 12 miles ]

TLD RING TLD\_CTRL

Sample ID:	114918	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.56E+01
Sample ID:	262764	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	12.9
Sample ID:	272191	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	15.7
Sample ID:	280972	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	14.6

Sample Point 6 [ INDICATOR - ENE @ 0.8 miles ]

TLD RING TLD\_INNER

Sample ID:	114919	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.12E+01
Sample ID:	262765	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.6
Sample ID:	272192	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	12.0
Sample ID:	280973	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.2

Sample Point 7 [ INDICATOR - E @ 0.7 miles ]

TLD RING TLD\_INNER

Sample ID:	114920	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.23E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 7 [ INDICATOR - E @ 0.7 miles ]

TLD RING TLD\_INNER

Sample ID:	262766	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	11.6
Sample ID:	272193	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	12.9
Sample ID:	280974	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.9

Sample Point 8 [ INDICATOR - ESE @ 0.6 miles ]

TLD RING TLD\_INNER

Sample ID:	114921	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.17E+01
Sample ID:	262767	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.8
Sample ID:	272194	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	12.0
Sample ID:	280975	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.4

Sample Point 9 [ INDICATOR - SE @ 2.2 miles ]

TLD RING TLD\_INNER

Sample ID:	114922	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	9.30E+00
Sample ID:	262785	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	8.5
Sample ID:	272223	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	9.7
Sample ID:	281004	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	9.8

Sample Point 10 [ INDICATOR - SSE @ 2.2 miles ]

TLD RING TLD\_INNER

Sample ID:	114923	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.06E+01
Sample ID:	262786	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	9.8
Sample ID:	272224	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	11.1
Sample ID:	281005	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	10.9

Sample Point 11 [ INDICATOR - S @ 0.6 miles ]

TLD RING TLD\_INNER

Sample ID:	114924	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.03E+01
Sample ID:	262787	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	9.4
Sample ID:	272225	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	11.0
Sample ID:	281006	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	10.6

Sample Point 12 [ INDICATOR - SSW @ 0.9 miles ]

TLD RING TLD\_INNER

Sample ID:	114925	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.01E+01
Sample ID:	262788	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	9.3



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 12 [ INDICATOR - SSW @ 0.9 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
272226	7/10/2013 - 10/9/2013	mR/Std Qtr	9.9
281007	10/9/2013 - 1/9/2014	mR/Std Qtr	10.0

Sample Point 13 [ INDICATOR - WSW @ 0.7 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
114926	2/15/2013 - 2/15/2013	mR/Std Qtr	1.00E+01
262789	4/10/2013 - 7/10/2013	mR/Std Qtr	9.6
272227	7/10/2013 - 10/9/2013	mR/Std Qtr	10.8
281008	10/9/2013 - 1/9/2014	mR/Std Qtr	10.4

Sample Point 14 [ INDICATOR - W @ 1.5 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
114927	2/15/2013 - 2/15/2013	mR/Std Qtr	1.24E+01
262790	4/10/2013 - 7/10/2013	mR/Std Qtr	13.4
272228	7/10/2013 - 10/9/2013	mR/Std Qtr	13.5
281009	10/9/2013 - 1/9/2014	mR/Std Qtr	14.7

Sample Point 15 [ INDICATOR - W @ 2 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
114928	2/15/2013 - 2/15/2013	mR/Std Qtr	1.01E+01
262791	4/10/2013 - 7/10/2013	mR/Std Qtr	9.2
272229	7/10/2013 - 10/9/2013	mR/Std Qtr	10.3
281010	10/9/2013 - 1/9/2014	mR/Std Qtr	10.3

Sample Point 19 [ INDICATOR - NNE @ 5 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
114929	2/15/2013 - 2/15/2013	mR/Std Qtr	9.80E+00
262792	4/10/2013 - 7/10/2013	mR/Std Qtr	9.5
272230	7/10/2013 - 10/9/2013	mR/Std Qtr	10.2
281011	10/9/2013 - 1/9/2014	mR/Std Qtr	11.1

Sample Point 20 [ INDICATOR - N @ 4.5 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
114930	2/15/2013 - 2/15/2013	mR/Std Qtr	1.21E+01
262793	4/10/2013 - 7/10/2013	mR/Std Qtr	12.1
272231	7/10/2013 - 10/9/2013	mR/Std Qtr	13.4





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 20 [ INDICATOR - N @ 4.5 miles ]

TLD RING TLD\_OUTER

Sample ID:	281012	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	12.7

Sample Point 21 [ INDICATOR - ENE @ 4.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	114931	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.29E+01

Sample ID:	262794	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.0

Sample ID:	272232	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	12.6

Sample ID:	281013	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	10.7

Sample Point 22 [ INDICATOR - E @ 4.3 miles ]

TLD RING TLD\_OUTER

Sample ID:	114932	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	9.90E+00

Sample ID:	262795	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	9.4

Sample ID:	272233	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	10.5

Sample ID:	281014	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	10.0

Sample Point 23 [ INDICATOR - ESE @ 4.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	114933	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.24E+01

Sample ID:	262796	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	11.0

Sample ID:	272234	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	13.2

Sample ID:	281015	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	12.3

Sample Point 24 [ INDICATOR - SE @ 4 miles ]

TLD RING TLD\_OUTER

Sample ID:	114934	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.10E+01

Sample ID:	262797	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	9.9

Sample ID:	272235	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	11.2

Sample ID:	281016	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	10.5

Sample Point 25 [ INDICATOR - SSE @ 4.7 miles ]

TLD RING TLD\_OUTER

Sample ID:	114935	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.35E+01

Sample ID:	262798	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.4

Sample ID:	272236	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	14.2

Sample ID:	281017	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.5



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 26 [ INDICATOR - S @ 4.7 miles ]

TLD RING TLD\_OUTER

Sample ID:	114936	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.15E+01
Sample ID:	262799	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.7
Sample ID:	272237	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	12.1
Sample ID:	281018	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	12.0

Sample Point 27 [ INDICATOR - SSW @ 4.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	114937	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	9.30E+00
Sample ID:	262760	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	8.4
Sample ID:	272274	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	9.9
Sample ID:	281063	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	9.3

Sample Point 28 [ INDICATOR - SW @ 4.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	114938	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	9.80E+00
Sample ID:	262758	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	8.6
Sample ID:	272275	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	10.8
Sample ID:	281064	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	9.2

Sample Point 29 [ INDICATOR - WSW @ 5.7 miles ]

TLD RING TLD\_OUTER

Sample ID:	114939	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.30E+01
Sample ID:	262768	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	12.3
Sample ID:	272195	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	13.4
Sample ID:	280976	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	13.1

Sample Point 30 [ INDICATOR - W @ 5.6 miles ]

TLD RING TLD\_OUTER

Sample ID:	114940	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	9.20E+00
Sample ID:	262770	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	8.8
Sample ID:	272197	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	9.7
Sample ID:	280978	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	9.3

Sample Point 31 [ INDICATOR - WNW @ 4.7 miles ]

TLD RING TLD\_OUTER

Sample ID:	114941	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	8.80E+00

# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 31 [ INDICATOR - WNW @ 4.7 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
262769	4/10/2013 - 7/10/2013	mR/Std Qtr	8.6
272196	7/10/2013 - 10/9/2013	mR/Std Qtr	9.2
280977	10/9/2013 - 1/9/2014	mR/Std Qtr	9.1

Sample Point 32 [ INDICATOR - NNW @ 6.4 miles ]

TLD RING TLD\_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
114942	2/15/2013 - 2/15/2013	mR/Std Qtr	1.19E+01
262771	4/10/2013 - 7/10/2013	mR/Std Qtr	11.1
272198	7/10/2013 - 10/9/2013	mR/Std Qtr	12.7
280979	10/9/2013 - 1/9/2014	mR/Std Qtr	12.6

Sample Point 33 [ INDICATOR - NNW @ 4.5 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
114943	2/15/2013 - 2/15/2013	mR/Std Qtr	1.11E+01
262772	4/10/2013 - 7/10/2013	mR/Std Qtr	9.2
272199	7/10/2013 - 10/9/2013	mR/Std Qtr	12.0
280980	10/9/2013 - 1/9/2014	mR/Std Qtr	10.3

Sample Point 34 [ INDICATOR - NE @ 8.7 miles ]

TLD RING TLD\_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
114944	2/15/2013 - 2/15/2013	mR/Std Qtr	1.46E+01
262773	4/10/2013 - 7/10/2013	mR/Std Qtr	14.5
280981	10/9/2013 - 1/9/2014	mR/Std Qtr	16.1

Sample Point 35 [ INDICATOR - E @ 6.9 miles ]

TLD RING TLD\_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
114945	2/15/2013 - 2/15/2013	mR/Std Qtr	1.26E+01
262774	4/10/2013 - 7/10/2013	mR/Std Qtr	11.5
272201	7/10/2013 - 10/9/2013	mR/Std Qtr	13.6
280982	10/9/2013 - 1/9/2014	mR/Std Qtr	9.6

Sample Point 36 [ INDICATOR - E @ 10.9 miles ]

TLD RING TLD\_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
114946	2/15/2013 - 2/15/2013	mR/Std Qtr	9.60E+00
262775	4/10/2013 - 7/10/2013	mR/Std Qtr	9.2
272202	7/10/2013 - 10/9/2013	mR/Std Qtr	10.1



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 36 [ INDICATOR - E @ 10.9 miles ]

TLD RING TLD\_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
280983	10/9/2013 - 1/9/2014	mR/Std Qtr	12.2

Sample Point 37 [ INDICATOR - ESE @ 9.2 miles ]

TLD RING TLD\_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
262776	4/10/2013 - 7/10/2013	mR/Std Qtr	12.4

Sample ID:	Sample Dates:	Nuclide	Activity
272203	7/10/2013 - 10/9/2013	mR/Std Qtr	12.5

Sample ID:	Sample Dates:	Nuclide	Activity
280984	10/9/2013 - 1/9/2014	mR/Std Qtr	11.7

Sample Point 48 [ INDICATOR - N @ 4.5 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
114947	2/15/2013 - 2/15/2013	mR/Std Qtr	1.27E+01

Sample ID:	Sample Dates:	Nuclide	Activity
262777	4/10/2013 - 7/10/2013	mR/Std Qtr	12.2

Sample ID:	Sample Dates:	Nuclide	Activity
272204	7/10/2013 - 10/9/2013	mR/Std Qtr	14.0

Sample ID:	Sample Dates:	Nuclide	Activity
280985	10/9/2013 - 1/9/2014	mR/Std Qtr	13.5

Sample Point 49 [ INDICATOR - NE @ 2.5 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
114948	2/15/2013 - 2/15/2013	mR/Std Qtr	1.33E+01

Sample ID:	Sample Dates:	Nuclide	Activity
262778	4/10/2013 - 7/10/2013	mR/Std Qtr	12.8

Sample ID:	Sample Dates:	Nuclide	Activity
272205	7/10/2013 - 10/9/2013	mR/Std Qtr	14.3

Sample ID:	Sample Dates:	Nuclide	Activity
280986	10/9/2013 - 1/9/2014	mR/Std Qtr	14.3

Sample Point 50 [ INDICATOR - ESE @ 2.6 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
114949	2/15/2013 - 2/15/2013	mR/Std Qtr	1.10E+01

Sample ID:	Sample Dates:	Nuclide	Activity
262779	4/10/2013 - 7/10/2013	mR/Std Qtr	9.6

Sample ID:	Sample Dates:	Nuclide	Activity
272206	7/10/2013 - 10/9/2013	mR/Std Qtr	11.6

Sample ID:	Sample Dates:	Nuclide	Activity
280987	10/9/2013 - 1/9/2014	mR/Std Qtr	10.6

Sample Point 53 [ INDICATOR - NW @ 5.8 miles ]

TLD RING TLD\_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
114950	2/15/2013 - 2/15/2013	mR/Std Qtr	9.90E+00

Sample ID:	Sample Dates:	Nuclide	Activity
262780	4/10/2013 - 7/10/2013	mR/Std Qtr	9.4

Sample ID:	Sample Dates:	Nuclide	Activity
272207	7/10/2013 - 10/9/2013	mR/Std Qtr	10.7

Sample ID:	Sample Dates:	Nuclide	Activity
280988	10/9/2013 - 1/9/2014	mR/Std Qtr	10.5

# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 56 [ INDICATOR - WSW @ 3 miles ]

TLD RING TLD\_INNER

Sample ID:	114951	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.16E+01
Sample ID:	262781	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.1
Sample ID:	272208	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	12.3
Sample ID:	280989	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.5

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

TLD RING TLD\_INNER

Sample ID:	114952	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.22E+01
Sample ID:	262782	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	11.9
Sample ID:	272209	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	13.4
Sample ID:	280990	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	12.6

Sample Point 67 [ INDICATOR - ENE @ 1.2 miles ]

TLD RING TLD\_INNER

Sample ID:	114953	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.11E+01
Sample ID:	262783	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	10.3
Sample ID:	272210	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	11.5
Sample ID:	280991	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.0

Sample Point 93 [ INDICATOR - WNW @ 2.2 miles ]

TLD RING TLD\_INNER

Sample ID:	114954	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.26E+01
Sample ID:	262784	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	11.0
Sample ID:	272211	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	13.4
Sample ID:	280992	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	11.9

Sample Point 94 [ INDICATOR - NW @ 2 miles ]

TLD RING TLD\_INNER

Sample ID:	114955	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.29E+01
Sample ID:	262800	Sample Dates:	4/10/2013 - 7/10/2013	Nuclide	Activity
				mR/Std Qtr	12.5
Sample ID:	272212	Sample Dates:	7/10/2013 - 10/9/2013	Nuclide	Activity
				mR/Std Qtr	14.3
Sample ID:	280993	Sample Dates:	10/9/2013 - 1/9/2014	Nuclide	Activity
				mR/Std Qtr	14.2

Sample Point 95 [ INDICATOR - NNW @ 2 miles ]

TLD RING TLD\_INNER

Sample ID:	114956	Sample Dates:	2/15/2013 - 2/15/2013	Nuclide	Activity
				mR/Std Qtr	1.06E+01



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 95 [ INDICATOR - NNW @ 2 miles ]

TLD RING TLD\_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
262759	4/10/2013 - 7/10/2013	mR/Std Qtr	11.1
272276	7/10/2013 - 10/9/2013	mR/Std Qtr	11.7
281065	10/9/2013 - 1/9/2014	mR/Std Qtr	12.0

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 5 [ CONTROL - NNW @ 12 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
257908	5/14/2013 - 5/14/2013	I-131	<1.59E+01	0.00E+00	1.59E+01	FIGLEAF
		Cs-134	<1.80E+01	0.00E+00	1.80E+01	
		Cs-137	<2.00E+01	0.00E+00	2.00E+01	
		Be-7	9.27E+02	8.45E+01	1.08E+02	
		K-40	3.30E+03	2.14E+02	1.52E+02	
257909	5/14/2013 - 5/14/2013	I-131	<1.47E+01	0.00E+00	1.47E+01	SWEETGUM
		Cs-134	<1.77E+01	0.00E+00	1.77E+01	
		Cs-137	<2.14E+01	0.00E+00	2.14E+01	
		Be-7	4.55E+02	8.18E+01	1.35E+02	
		K-40	3.15E+03	2.26E+02	1.83E+02	
257910	5/14/2013 - 5/14/2013	I-131	<2.60E+01	0.00E+00	2.60E+01	MAPLE
		Cs-134	<2.10E+01	0.00E+00	2.10E+01	
		Cs-137	<3.20E+01	0.00E+00	3.20E+01	
		Be-7	5.72E+02	9.29E+01	1.62E+02	
		K-40	3.54E+03	3.55E+02	2.59E+02	
259411	6/12/2013 - 6/12/2013	I-131	<2.67E+01	0.00E+00	2.67E+01	MAPLE
		Cs-134	<1.94E+01	0.00E+00	1.94E+01	
		Cs-137	<3.43E+01	0.00E+00	3.43E+01	
		Be-7	1.05E+03	1.34E+02	1.83E+02	
		K-40	4.13E+03	3.34E+02	2.92E+02	
259412	6/12/2013 - 6/12/2013	I-131	<1.74E+01	0.00E+00	1.74E+01	SWEETGUM
		Cs-134	<1.72E+01	0.00E+00	1.72E+01	
		Cs-137	<2.46E+01	0.00E+00	2.46E+01	
		Be-7	4.70E+02	8.35E+01	1.33E+02	
		K-40	3.78E+03	2.53E+02	2.37E+02	
259413	6/12/2013 - 6/12/2013	I-131	<2.90E+01	0.00E+00	2.90E+01	FIGLEAF
		Cs-134	<2.21E+01	0.00E+00	2.21E+01	
		Cs-137	<3.16E+01	0.00E+00	3.16E+01	
		Be-7	1.48E+03	1.26E+02	1.96E+02	
		K-40	5.15E+03	3.29E+02	1.77E+02	
262834	7/15/2013 - 7/15/2013	I-131	<2.59E+01	0.00E+00	2.59E+01	FIGLEAF
		Cs-134	<1.91E+01	0.00E+00	1.91E+01	
		Cs-137	<2.30E+01	0.00E+00	2.30E+01	
		Be-7	2.87E+03	1.89E+02	1.90E+02	
		K-40	5.04E+03	3.23E+02	2.06E+02	
262835	7/15/2013 - 7/15/2013	I-131	<2.33E+01	0.00E+00	2.33E+01	MAPLE
		Cs-134	<2.44E+01	0.00E+00	2.44E+01	
		Cs-137	<3.17E+01	0.00E+00	3.17E+01	
		Be-7	2.04E+03	1.67E+02	1.86E+02	
		K-40	3.05E+03	2.70E+02	1.76E+02	
262836	7/15/2013 - 7/15/2013	I-131	<2.33E+01	0.00E+00	2.33E+01	SWEETGUM



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 5 [ CONTROL - NNW @ 12 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD	Subtype
262836	7/15/2013 - 7/15/2013					SWEETGUM
		Cs-134	<2.32E+01	0.00E+00	2.32E+01	
		Cs-137	<2.66E+01	0.00E+00	2.66E+01	
		Be-7	1.90E+03	1.94E+02	2.35E+02	
		K-40	2.54E+03	3.00E+02	3.16E+02	
265245	8/12/2013 - 8/12/2013					FIGLEAF
		I-131	<2.28E+01	0.00E+00	2.28E+01	
		Cs-134	<1.73E+01	0.00E+00	1.73E+01	
		Cs-137	<2.20E+01	0.00E+00	2.20E+01	
		Be-7	2.49E+03	1.38E+02	1.58E+02	
K-40	4.71E+03	3.08E+02	2.62E+02			
265246	8/12/2013 - 8/12/2013					MAPLE
		I-131	<2.42E+01	0.00E+00	2.42E+01	
		Cs-134	<2.58E+01	0.00E+00	2.58E+01	
		Cs-137	<3.21E+01	0.00E+00	3.21E+01	
		Be-7	1.95E+03	1.93E+02	2.02E+02	
K-40	3.47E+03	3.44E+02	2.28E+02			
265247	8/12/2013 - 8/12/2013					SWEETGUM
		I-131	<1.65E+01	0.00E+00	1.65E+01	
		Cs-134	<1.42E+01	0.00E+00	1.42E+01	
		Cs-137	<1.98E+01	0.00E+00	1.98E+01	
		Be-7	1.87E+03	1.13E+02	9.56E+01	
K-40	3.06E+03	2.19E+02	1.63E+02			
269929	9/16/2013 - 9/16/2013					FIGLEAF
		I-131	<2.80E+01	0.00E+00	2.80E+01	
		Cs-134	<1.99E+01	0.00E+00	1.99E+01	
		Cs-137	<2.48E+01	0.00E+00	2.48E+01	
		Be-7	1.53E+03	1.47E+02	1.90E+02	
K-40	4.63E+03	3.13E+02	1.87E+02			
269930	9/16/2013 - 9/16/2013					MAPLE
		I-131	<2.43E+01	0.00E+00	2.43E+01	
		Cs-134	<2.25E+01	0.00E+00	2.25E+01	
		Cs-137	<2.54E+01	0.00E+00	2.54E+01	
		Be-7	8.66E+02	1.22E+02	2.00E+02	
K-40	4.20E+03	2.72E+02	1.32E+02			
269931	9/16/2013 - 9/16/2013					SWEETGUM
		I-131	<2.89E+01	0.00E+00	2.89E+01	
		Cs-134	<2.18E+01	0.00E+00	2.18E+01	
		Cs-137	<2.63E+01	0.00E+00	2.63E+01	
		Be-7	1.90E+03	1.61E+02	1.69E+02	
K-40	2.99E+03	2.87E+02	2.43E+02			
272623	10/14/2013 - 10/14/2013					FIGLEAF
		I-131	<2.32E+01	0.00E+00	2.32E+01	
		Cs-134	<2.15E+01	0.00E+00	2.15E+01	
		Cs-137	<2.87E+01	0.00E+00	2.87E+01	
		Be-7	5.73E+03	2.34E+02	1.46E+02	
K-40	6.06E+03	3.43E+02	2.81E+02			
272624	10/14/2013 - 10/14/2013					MAPLE
		I-131	<2.42E+01	0.00E+00	2.42E+01	
		Cs-134	<3.19E+01	0.00E+00	3.19E+01	
		Cs-137	<2.47E+01	0.00E+00	2.47E+01	
		Be-7	8.94E+02	1.50E+02	2.79E+02	
K-40	2.90E+03	3.41E+02	3.76E+02			
272625	10/14/2013 - 10/14/2013					SWEETGUM
		I-131	<2.29E+01	0.00E+00	2.29E+01	
		Cs-134	<2.18E+01	0.00E+00	2.18E+01	
		Cs-137	<2.21E+01	0.00E+00	2.21E+01	
		Be-7	1.01E+03	1.06E+02	1.56E+02	
K-40	3.20E+03	2.44E+02	2.71E+02			



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 12 [ INDICATOR - SSW @ 0.9 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
257911	5/14/2013 - 5/14/2013	I-131	<1.96E+01	0.00E+00	1.96E+01	SWEETGUM
		Cs-134	<1.72E+01	0.00E+00	1.72E+01	
		Cs-137	<2.28E+01	0.00E+00	2.28E+01	
		Be-7	4.74E+02	1.04E+02	1.51E+02	
		K-40	3.03E+03	2.48E+02	1.91E+02	
257912	5/14/2013 - 5/14/2013	I-131	<2.55E+01	0.00E+00	2.55E+01	MAPLE
		Cs-134	<2.85E+01	0.00E+00	2.85E+01	
		Cs-137	<3.12E+01	0.00E+00	3.12E+01	
		Be-7	7.09E+02	1.24E+02	2.01E+02	
		K-40	3.87E+03	3.59E+02	3.88E+02	
257913	5/14/2013 - 5/14/2013	I-131	<2.53E+01	0.00E+00	2.53E+01	WAXMYRTLE
		Cs-134	<1.57E+01	0.00E+00	1.57E+01	
		Cs-137	<2.24E+01	0.00E+00	2.24E+01	
		Be-7	1.94E+03	1.64E+02	1.79E+02	
		K-40	4.15E+03	2.82E+02	1.87E+02	
259414	6/12/2013 - 6/12/2013	I-131	<2.23E+01	0.00E+00	2.23E+01	MAPLE
		Cs-134	<2.01E+01	0.00E+00	2.01E+01	
		Cs-137	<2.20E+01	0.00E+00	2.20E+01	
		Be-7	7.88E+02	1.09E+02	1.67E+02	
		K-40	3.49E+03	2.65E+02	5.45E+01	
259415	6/12/2013 - 6/12/2013	I-131	<3.49E+01	0.00E+00	3.49E+01	WAXMYRTLE
		Cs-134	<2.68E+01	0.00E+00	2.68E+01	
		Cs-137	<3.39E+01	0.00E+00	3.39E+01	
		Be-7	1.16E+03	1.73E+02	2.51E+02	
		K-40	3.37E+03	3.65E+02	2.51E+02	
259416	6/12/2013 - 6/12/2013	I-131	<2.48E+01	0.00E+00	2.48E+01	SWEETGUM
		Cs-134	<2.13E+01	0.00E+00	2.13E+01	
		Cs-137	<2.15E+01	0.00E+00	2.15E+01	
		Be-7	6.52E+02	1.20E+02	1.70E+02	
		K-40	3.43E+03	2.85E+02	2.51E+02	
262837	7/15/2013 - 7/15/2013	I-131	<1.89E+01	0.00E+00	1.89E+01	SWEETGUM
		Cs-134	<1.93E+01	0.00E+00	1.93E+01	
		Cs-137	<1.78E+01	0.00E+00	1.78E+01	
		Be-7	1.39E+03	1.08E+02	1.54E+02	
		K-40	2.44E+03	1.96E+02	1.66E+02	
262838	7/15/2013 - 7/15/2013	I-131	<3.10E+01	0.00E+00	3.10E+01	MAPLE
		Cs-134	<3.23E+01	0.00E+00	3.23E+01	
		Cs-137	<3.79E+01	0.00E+00	3.79E+01	
		Be-7	1.15E+03	1.86E+02	2.40E+02	
		K-40	4.42E+03	3.70E+02	2.60E+02	
262839	7/15/2013 - 7/15/2013	I-131	<3.40E+01	0.00E+00	3.40E+01	WAXMYRTLE
		Cs-134	<3.97E+01	0.00E+00	3.97E+01	
		Cs-137	<3.99E+01	0.00E+00	3.99E+01	
		Be-7	2.76E+03	2.15E+02	2.63E+02	
		K-40	3.32E+03	3.87E+02	4.51E+02	
265248	8/12/2013 - 8/12/2013	I-131	<2.01E+01	0.00E+00	2.01E+01	SWEETGUM
		Cs-134	<2.20E+01	0.00E+00	2.20E+01	
		Cs-137	<2.06E+01	0.00E+00	2.06E+01	
		Be-7	4.61E+02	1.17E+02	2.12E+02	
		K-40	1.71E+03	2.91E+02	3.48E+02	





# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 12 [ INDICATOR - SSW @ 0.9 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
265249	8/12/2013 - 8/12/2013					WAXMYRTLE
		I-131	<2.15E+01	0.00E+00	2.15E+01	
		Cs-134	<2.28E+01	0.00E+00	2.28E+01	
		Cs-137	<3.00E+01	0.00E+00	3.00E+01	
		Be-7	1.55E+03	1.54E+02	1.66E+02	
		K-40	2.82E+03	2.74E+02	2.78E+02	
265250	8/12/2013 - 8/12/2013					MAPLE
		I-131	<2.00E+01	0.00E+00	2.00E+01	
		Cs-134	<1.72E+01	0.00E+00	1.72E+01	
		Cs-137	<1.73E+01	0.00E+00	1.73E+01	
		Be-7	1.46E+03	1.36E+02	1.43E+02	
		K-40	2.61E+03	2.25E+02	2.34E+02	
269932	9/16/2013 - 9/16/2013					SWEETGUM
		I-131	<1.96E+01	0.00E+00	1.96E+01	
		Cs-134	<1.50E+01	0.00E+00	1.50E+01	
		Cs-137	<2.07E+01	0.00E+00	2.07E+01	
		Be-7	8.60E+02	1.12E+02	1.40E+02	
		K-40	2.28E+03	1.78E+02	1.33E+02	
269933	9/16/2013 - 9/16/2013					WAXMYRTLE
		I-131	<3.34E+01	0.00E+00	3.34E+01	
		Cs-134	<2.27E+01	0.00E+00	2.27E+01	
		Cs-137	<3.26E+01	0.00E+00	3.26E+01	
		Be-7	3.49E+03	2.23E+02	2.27E+02	
		K-40	2.56E+03	2.69E+02	2.93E+02	
269934	9/16/2013 - 9/16/2013					MAPLE
		I-131	<2.70E+01	0.00E+00	2.70E+01	
		Cs-134	<2.19E+01	0.00E+00	2.19E+01	
		Cs-137	<2.69E+01	0.00E+00	2.69E+01	
		Be-7	1.18E+03	1.33E+02	2.25E+02	
		K-40	2.66E+03	2.36E+02	2.36E+02	
272626	10/14/2013 - 10/14/2013					MAPLE
		I-131	<3.66E+01	0.00E+00	3.66E+01	
		Cs-134	<2.87E+01	0.00E+00	2.87E+01	
		Cs-137	<4.13E+01	0.00E+00	4.13E+01	
		Be-7	1.61E+03	1.79E+02	2.73E+02	
		K-40	4.16E+03	3.60E+02	3.27E+02	
272627	10/14/2013 - 10/14/2013					WAXMYRTLE
		I-131	<2.55E+01	0.00E+00	2.55E+01	
		Cs-134	<1.92E+01	0.00E+00	1.92E+01	
		Cs-137	<2.90E+01	0.00E+00	2.90E+01	
		Be-7	2.72E+03	2.13E+02	1.95E+02	
		K-40	1.29E+03	2.01E+02	8.50E+01	
272628	10/14/2013 - 10/14/2013					SWEETGUM
		I-131	<2.83E+01	0.00E+00	2.83E+01	
		Cs-134	<1.98E+01	0.00E+00	1.98E+01	
		Cs-137	<2.41E+01	0.00E+00	2.41E+01	
		Be-7	1.13E+03	1.86E+02	2.86E+02	
		K-40	1.75E+03	2.68E+02	3.16E+02	

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD	Subtype:
257914	5/14/2013 - 5/14/2013					MAPLE
		I-131	<3.62E+01	0.00E+00	3.62E+01	
		Cs-134	<3.42E+01	0.00E+00	3.42E+01	
		Cs-137	<4.04E+01	0.00E+00	4.04E+01	
		Be-7	7.07E+02	1.49E+02	2.67E+02	
		K-40	2.52E+03	3.65E+02	5.82E+02	
257915	5/14/2013 - 5/14/2013					WAXMYRTLE
		I-131	<1.93E+01	0.00E+00	1.93E+01	
		Cs-134	<2.12E+01	0.00E+00	2.12E+01	
		Cs-137	<2.18E+01	0.00E+00	2.18E+01	
		Be-7	9.44E+02	9.69E+01	1.06E+02	



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD	Subtype
257915	5/14/2013 - 5/14/2013	K-40	3.56E+03	2.51E+02	1.64E+02	WAXMYRTLE
257916	5/14/2013 - 5/14/2013	I-131	<1.82E+01	0.00E+00	1.82E+01	SWEETGUM
		Cs-134	<1.70E+01	0.00E+00	1.70E+01	
		Cs-137	<2.08E+01	0.00E+00	2.08E+01	
		Be-7	5.56E+02	9.57E+01	1.47E+02	
		K-40	2.64E+03	2.37E+02	2.07E+02	
259417	6/12/2013 - 6/12/2013	I-131	<1.31E+01	0.00E+00	1.31E+01	SWEETGUM
		Cs-134	<8.04E+00	0.00E+00	8.04E+00	
		Cs-137	<9.69E+00	0.00E+00	9.69E+00	
		Be-7	8.53E+02	5.13E+01	7.18E+01	
		K-40	2.89E+03	1.23E+02	9.42E+01	
259418	6/12/2013 - 6/12/2013	I-131	<3.83E+01	0.00E+00	3.83E+01	MAPLE
		Cs-134	<3.10E+01	0.00E+00	3.10E+01	
		Cs-137	<3.96E+01	0.00E+00	3.96E+01	
		Be-7	4.57E+02	1.41E+02	2.63E+02	
		K-40	4.48E+03	3.73E+02	3.52E+02	
259419	6/12/2013 - 6/12/2013	I-131	<2.10E+01	0.00E+00	2.10E+01	WAXMYRTLE
		Cs-134	<1.82E+01	0.00E+00	1.82E+01	
		Cs-137	<1.77E+01	0.00E+00	1.77E+01	
		Be-7	1.21E+03	1.19E+02	1.55E+02	
		K-40	3.46E+03	2.65E+02	2.88E+02	
262840	7/15/2013 - 7/15/2013	I-131	<3.41E+01	0.00E+00	3.41E+01	MAPLE
		Cs-134	<3.36E+01	0.00E+00	3.36E+01	
		Cs-137	<3.60E+01	0.00E+00	3.60E+01	
		Be-7	2.43E+03	1.97E+02	2.74E+02	
		K-40	3.88E+03	3.72E+02	3.78E+02	
262841	7/15/2013 - 7/15/2013	I-131	<1.70E+01	0.00E+00	1.70E+01	SWEETGUM
		Cs-134	<1.70E+01	0.00E+00	1.70E+01	
		Cs-137	<1.67E+01	0.00E+00	1.67E+01	
		Be-7	9.26E+02	9.68E+01	1.64E+02	
		K-40	2.34E+03	2.23E+02	2.84E+02	
262842	7/15/2013 - 7/15/2013	I-131	<4.09E+01	0.00E+00	4.09E+01	WAXMYRTLE
		Cs-134	<4.06E+01	0.00E+00	4.06E+01	
		Cs-137	<3.86E+01	0.00E+00	3.86E+01	
		Be-7	1.21E+03	2.16E+02	3.32E+02	
		K-40	3.15E+03	3.77E+02	4.03E+02	
265251	8/12/2013 - 8/12/2013	I-131	<2.94E+01	0.00E+00	2.94E+01	WAXMYRTLE
		Cs-134	<2.15E+01	0.00E+00	2.15E+01	
		Cs-137	<2.95E+01	0.00E+00	2.95E+01	
		Be-7	1.78E+03	1.62E+02	2.53E+02	
		K-40	3.33E+03	2.64E+02	2.21E+02	
265252	8/12/2013 - 8/12/2013	I-131	<2.89E+01	0.00E+00	2.89E+01	MAPLE
		Cs-134	<3.50E+01	0.00E+00	3.50E+01	
		Cs-137	<3.33E+01	0.00E+00	3.33E+01	
		Be-7	1.99E+03	1.90E+02	2.30E+02	
		K-40	2.61E+03	3.38E+02	4.48E+02	
265253	8/12/2013 - 8/12/2013	I-131	<2.30E+01	0.00E+00	2.30E+01	SWEETGUM
		Cs-134	<1.86E+01	0.00E+00	1.86E+01	
		Cs-137	<2.08E+01	0.00E+00	2.08E+01	



# Shearon Harris Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg

Sample Point 63 [ INDICATOR - SW @ 0.6 miles ]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD	Subtype
265253	8/12/2013 - 8/12/2013	Be-7	6.36E+02	9.93E+01	1.76E+02	SWEETGUM
		K-40	3.28E+03	2.53E+02	2.48E+02	
269935	9/16/2013 - 9/16/2013	I-131	<4.17E+01	0.00E+00	4.17E+01	WAXMYRTLE
		Cs-134	<2.49E+01	0.00E+00	2.49E+01	
		Cs-137	<2.92E+01	0.00E+00	2.92E+01	
		Be-7	1.34E+03	1.70E+02	2.90E+02	
		K-40	2.70E+03	3.55E+02	6.06E+02	
269936	9/16/2013 - 9/16/2013	I-131	<1.87E+01	0.00E+00	1.87E+01	SWEETGUM
		Cs-134	<2.10E+01	0.00E+00	2.10E+01	
		Cs-137	<2.32E+01	0.00E+00	2.32E+01	
		Be-7	1.04E+03	1.19E+02	1.19E+02	
		K-40	2.74E+03	2.55E+02	2.12E+02	
269937	9/16/2013 - 9/16/2013	I-131	<3.37E+01	0.00E+00	3.37E+01	MAPLE
		Cs-134	<2.50E+01	0.00E+00	2.50E+01	
		Cs-137	<4.18E+01	0.00E+00	4.18E+01	
		Be-7	1.95E+03	2.22E+02	2.46E+02	
		K-40	2.23E+03	3.38E+02	3.72E+02	
272629	10/14/2013 - 10/14/2013	I-131	<2.57E+01	0.00E+00	2.57E+01	MAPLE
		Cs-134	<2.13E+01	0.00E+00	2.13E+01	
		Cs-137	<2.80E+01	0.00E+00	2.80E+01	
		Be-7	1.69E+03	1.61E+02	1.77E+02	
		K-40	1.27E+03	2.34E+02	2.25E+02	
272630	10/14/2013 - 10/14/2013	I-131	<2.14E+01	0.00E+00	2.14E+01	WAXMYRTLE
		Cs-134	<1.97E+01	0.00E+00	1.97E+01	
		Cs-137	<1.71E+01	0.00E+00	1.71E+01	
		Be-7	2.39E+03	1.52E+02	1.62E+02	
		K-40	2.79E+03	2.27E+02	1.97E+02	
272631	10/14/2013 - 10/14/2013	I-131	<2.32E+01	0.00E+00	2.32E+01	SWEETGUM
		Cs-134	<2.79E+01	0.00E+00	2.79E+01	
		Cs-137	<2.78E+01	0.00E+00	2.78E+01	
		Be-7	1.63E+03	1.60E+02	1.90E+02	
		K-40	2.50E+03	3.15E+02	3.70E+02	



**APPENDIX F**

**ERRATA TO  
PREVIOUS REPORTS**

---

# APPENDIX F

---

## ERRATA TO THE 2013 AREOR

There are no errata to be appended to the 2013 AREOR.