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Subject: Duke Energy Carolinas, LLC
Oconee Nuclear Station, Units 1, 2 and 3
Docket Nos. 50-269, 50-270 and 50-287
2013 Annual Radiological Environmental Operating Report

Pursuant to Oconee Nuclear Station Technical Specification 5.6.2 and Selected Licensee Commitment 16.11.10, please find attached the 2013 Annual Radiological Environmental Operating Report. This report covers operation of Units 1, 2 and 3 during the 2013 calendar year.

Any questions concerning this report may be directed to Judy Smith at 864-873-4309.

Sincerely,

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Attachment - Annual Radiological Environmental Operating Report

TEAS
NRK

U. S. Nuclear Regulatory Commission
May 15, 2014
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Attachment
Annual Radiological Environmental Operating Report

Oconee Nuclear Station Units 1, 2 and 3



AREOR

Annual
Radiological Environmental
Operating Report
2013



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

DUKE ENERGY CORPORATION
OCONEE NUCLEAR STATION
Units 1, 2, and 3

2013

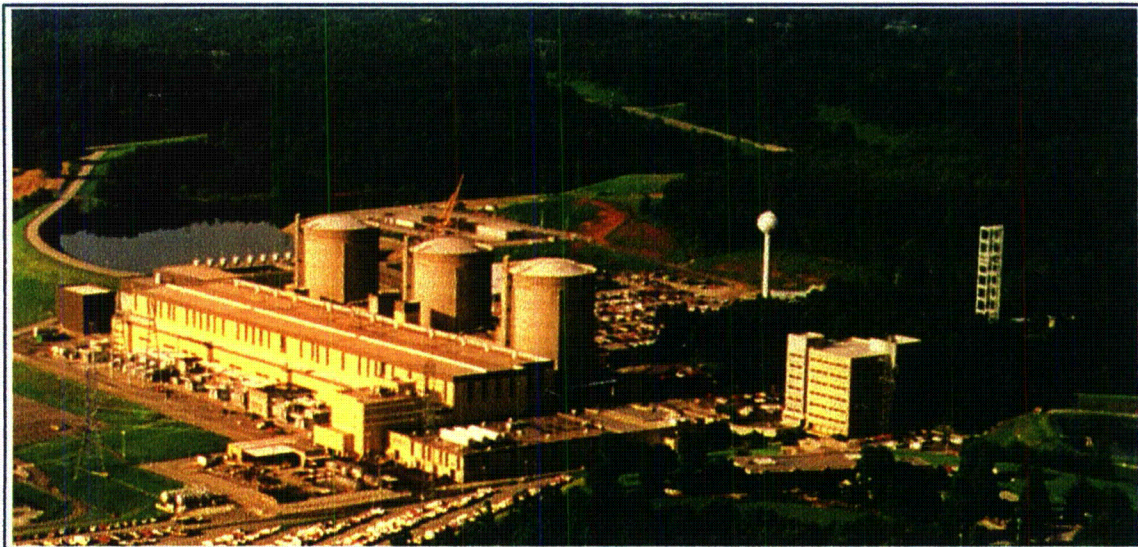


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LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

BW	BiWeekly
C	Control
DEHNR	Department of Environmental Health and Natural Resources
DHEC	Department of Health and Environmental Control
EPA	Environmental Protection Agency
ERA	Environmental Resource Associates
GI-LLI	Gastrointestinal – Lower Large Intestine
GPS	Global Positioning System
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
M	Monthly
MDA	Minimum Detectable Activity
MOA	Memorandum of Agreement
mrem	Millirem
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
ONS	Oconee Nuclear Station
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m3	picocurie per cubic meter
PIP	Problem Investigation Program
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SLCs	Selected Licensee Commitments
SM	Semimonthly
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
μCi/ml	microcurie per milliliter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the Oconee Nuclear Station Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2013.

Included are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, comparisons of doses calculated from environmental measurements and effluent data, analysis of trends in environmental radiological data as potentially affected by station operations, and a summary of environmental radiological sampling results. Quality assurance practices and program changes are also discussed.

Sampling activities were conducted as prescribed by Selected Licensee Commitments (SLC's). Required analyses were performed and detection capabilities were met for all collected samples as required by SLC's. Nine-hundred ninety-three samples were analyzed comprising 1,058 test results in order to compile data for the 2013 report. Based on the annual land use census, the current number of sampling sites for Oconee Nuclear Station is sufficient.

Concentrations observed in the environment in 2013 for station related radionuclides were within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in drinking water, surface water, shoreline sediment, fish, and broadleaf vegetation are higher than the activities reported for samples collected at control locations. All positively identified measurements attributable to station operation were within limits as specified in SLC's.

Additionally, environmental radiological monitoring data is consistent with effluents introduced into the environment by plant operations. The total body dose estimated to the maximum exposed member of the public as calculated by environmental sampling data, excluding TLD results, was 1.62E-01 mrem for 2013. Background radiation dose in the United States is approximately 620 mrem per year (approximately half from naturally occurring sources such as radon and half from man-made sources such as medical processes) (reference 6.15). It is therefore concluded that station operations has had no significant radiological impact on the health and safety of the public or the environment.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Oconee Nuclear Station (ONS) is located in Oconee County, South Carolina, approximately 8 miles northeast of Seneca, South Carolina, on the shore of Lake Keowee. This lake was formed by damming the Keowee and Little Rivers in that location. Immediately to the south is the U.S. Government Hartwell Project. The Keowee Hydroelectric Plant near the station joins Lake Keowee and the upper reaches of Lake Hartwell. To the north, the Jocassee Hydroelectric Plant joins Lake Jocassee and Lake Keowee. Jocassee is a pumped storage plant.

ONS consists of three pressurized water reactors. Each unit has an output of 846 megawatts net. Unit 1 license for operation was issued 2/6/1973. Unit 2 license for operation was issued 10/6/1973. Unit 3 license for operation was issued 7/19/1974. An independent spent fuel storage installation is also located at the site.

Figures 2.1-1 and 2.1-2 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-1 comprises all sample locations within a one mile radius of ONS. Figure 2.1-2 comprises all sample locations within a ten mile radius of ONS.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at Oconee Nuclear Station since 1969, four years prior to operation of Unit 1 in 1973. 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. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the Selected Licensee Commitments Manual, with regard to sample media, sampling locations, sampling frequency, and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of station origin from natural or other "man-made" environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from Oconee Nuclear Station. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and 10CFR72.44(d)(2) and 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 radioactivity 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 Selected Licensee Commitments, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the Radiological Environmental Monitoring Program are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.9.

Participation in an interlaboratory comparison program as required by Selected Licensee Commitments 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 10CFR50. A summary of the results obtained as part of this comparison program are in Section 5 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 (reference 6.8):

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

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 LEVEL OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Level of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the Environmental Monitoring Program.

LLD - The LLD, as defined in the Selected Licensee Commitments Manual is 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* 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 Selected Licensee Commitments 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 station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. 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. Some 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). 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

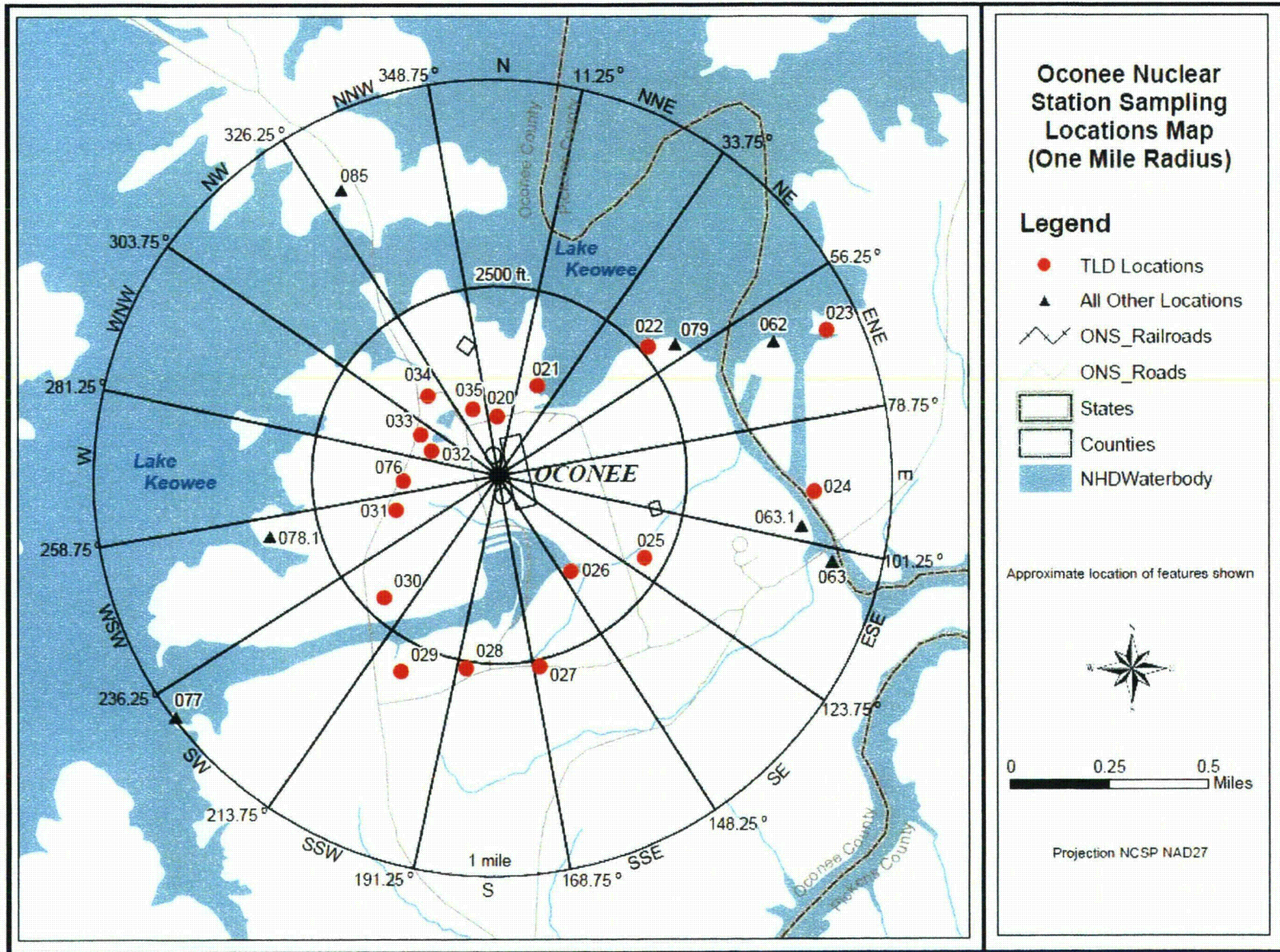


Figure 2.1-2

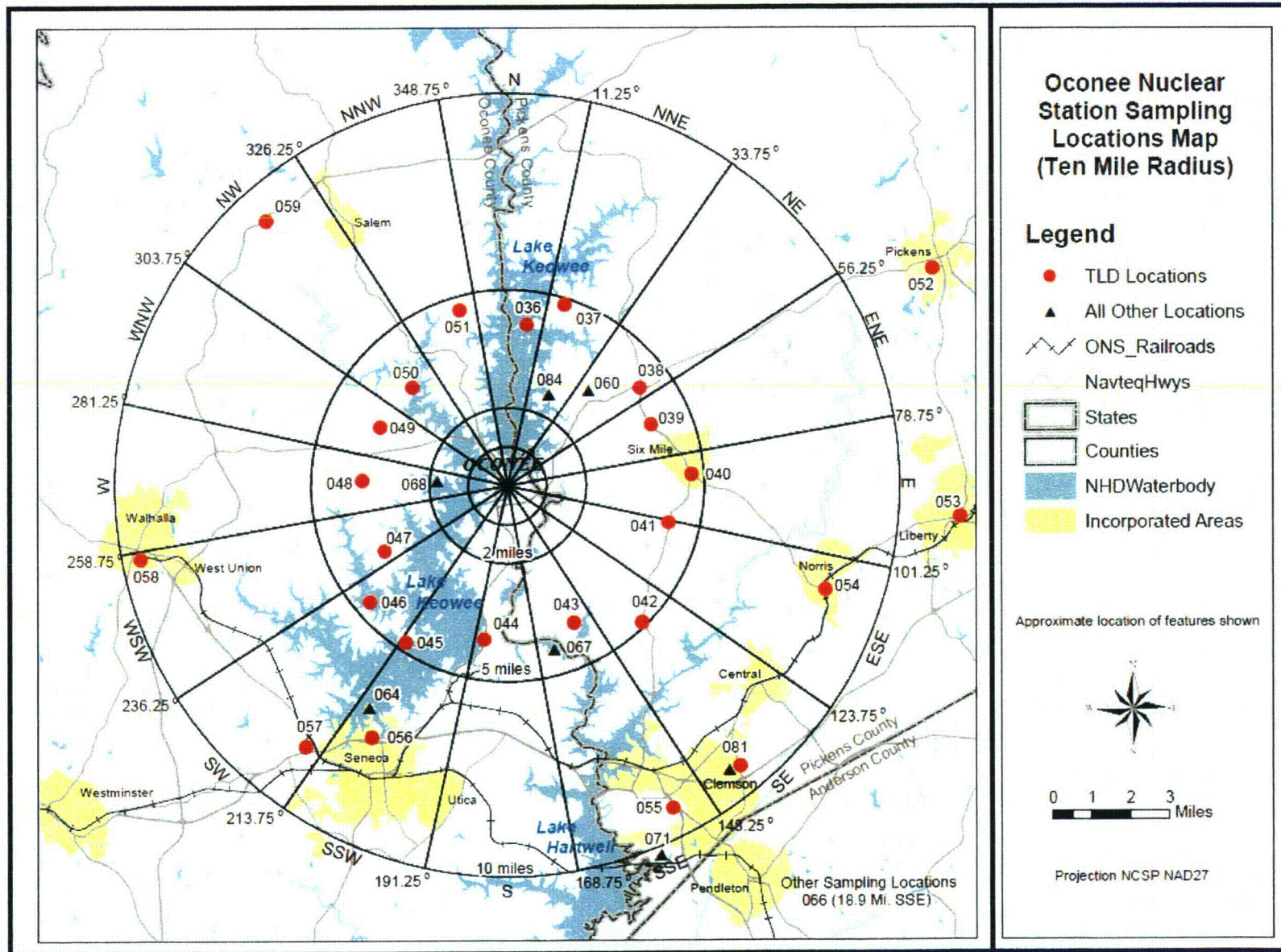


TABLE 2.1-A

**OCONEE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS**

W	Weekly	SM	Semimonthly
BW	BiWeekly	Q	Quarterly
M	Monthly	SA	Semiannually
C	Control	I	Indicator

Site #	Measure Type	Location Description*	Air Rad. & Particulate	Surface Water	Drinking Water	Shoreline Sediment	Fish	Milk	Broadleaf Vegetation
060	I	Greenville Water Intake Road (3.23 NE)			M				
060	C**	Greenville Water Intake Road (2.28 NE)					SA		
062	C	Lake Keowee Hydro Intake (0.85 mi ENE)		M					
063	I	Lake Hartwell Hwy 183 Bridge (0.80 mi ESE) [000.7]				SA	SA		
063.1	I	Lake Hartwell Hwy 183 (0.79 mi E)		M					
064	C	Seneca (6.67 mi SSW) [004.1]			M				
066	I	Anderson (18.9 mi SSE) [012]			M				
067	I	Lawrence Ramsey Bridge Hwy 27 (4.34 mi SSE) [005.2]				SA	SA		
068	C	High Falls County Park (1.82 mi W)				SA			
071	C	Clemson Dairy (10.2 mi SSE) [006.3]						SM	
077	I	Skimmer Wall (1.00 mi SW)	W						M
078.1	I	Recreation Site (0.53 mi WSW)	W						
079	I	Keowee Dam (0.56 mi NE)	W						M
081	C	Clemson Operations Center (9.33 mi SE)	W						M
084	I	Sue Craig Road (2.58 mi NNE)	W						M
085	I	Lake Services / Building B9125 (0.88 mi NNW)	W						

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

** Control for Fish Only

[] Location Numbers prior to 1984

TABLE 2.1-B

**OCONEE 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
020	IR	SITE BOUNDARY	0.16	N	040	OR	MICROWAVE TOWER, SIX MILE	4.74	E
021	IR	SITE BOUNDARY	0.25	NNE	041	OR	JCT HWY 101 & 133	4.25	ESE
022	IR	SITE BOUNDARY	0.53	NE	042	OR	LAWRENCE CHAPEL CHURCH, HWY 133	4.93	SE
023	IR	SITE BOUNDARY	0.93	ENE	043	OR	HWY 291 AT ISSAQUEENA PARK	4.09	SSE
024	IR	SITE BOUNDARY	0.79	E	044	OR	HWY 130 AT LITTLE RIVER DAM	3.96	S
025	IR	SITE BOUNDARY	0.42	ESE	045	OR	TERMINUS OF HWY 588 AT CROOKED CREEK	4.78	SSW
026	IR	SITE BOUNDARY	0.34	SE	046	OR	HWY 188 AT CROOKED CREEK	4.61	SW
027	IR	SITE BOUNDARY	0.49	SSE	047	OR	NEW HOPE CHURCH, HWY 188	3.58	WSW
028	IR	SITE BOUNDARY	0.46	S	048	OR	JCT HWY 175 & 188	3.64	W
029	IR	SITE BOUNDARY	0.56	SSW	049	OR	JCT HWY 201 & 92	3.60	WNW
030	IR	SITE BOUNDARY	0.42	SW	050	OR	STAMP CREEK LANDING, END OF HWY 92	3.53	NW
031	IR	SITE BOUNDARY	0.27	WSW	051	OR	HWY 128, 1 MILE N OF HWY 130	4.64	NNW
076	IR	SITE BOUNDARY	0.19	W	052	SI	DPC BRANCH OFFICE SITE - PICKENS	12.4	ENE
032	IR	SITE BOUNDARY	0.19	WNW	053	SI	DPC BRANCH OFFICE SITE - LIBERTY	11.7	E
033	IR	SITE BOUNDARY	0.21	WNW	054	SI	POST OFFICE - HWY 93 NORRIS	8.60	ESE
034	IR	SITE BOUNDARY	0.22	NW	055	SI	CLEMSON METEOROLOGY PLOT	9.27	SSE
035	IR	SITE BOUNDARY	0.17	NNW	056	SI	WATER TOWER - SENECA	7.30	SSW
036	OR	MILE CREEK LANDING	4.18	N	057	SI	OCONEE MEMORIAL HOSPITAL	8.42	SW
037	OR	KEOWEE CHURCH, HWY 327	4.85	NNE	058	C	BRANCH RD SUBSTATION, WALHALLA	9.39	WSW
038	OR	CONVENIENCE MART, JCT HWY 183 & 133	4.24	NE	059	SI	TAMASSEE DAR SCHOOL	9.20	NW
039	OR	HWY 133, 1 MILE EAST OF JCT HWY 183 & 133	4.02	ENE	081	C	CLEMSON OPERATIONS CENTER	9.33	SE

* 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)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg-wet)
H-3	20,000 ^(a)				
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 ^(b)	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 only. This is 40CFR Part 141 value.

(b) If low-level I-131 analyses are performed.

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 Composite	X				
Direct Radiation	Quarterly					X
Surface Water	Monthly	X				
	Quarterly Composite		X			
Drinking Water	Monthly	X		(a)	X	
	Quarterly Composite		X			
Shoreline Sediment	Semiannually	X				
Milk	Semimonthly	X		X		
Fish	Semiannually	X				
Broadleaf Vegetation	Monthly	X				

(a) Low level I-131 analysis will be performed if abnormal releases occur which could reasonably result in > 1 pCi/liter of I-131 in drinking water. An LLD of 1 pCi/liter will be required for this analysis.

TABLE 2.2-C

MAXIMUM VALUES FOR THE LOWER LIMITS OF DETECTION

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01				
H-3	2000					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-95	15					
Nb-95	15					
I-131	15 ^(a)	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) LLD for low-level I-131 analyses is 1 pCi/liter if performed

3.0 INTERPRETATION OF RESULTS

Review of 2013 REMP analysis results was performed to identify changes in environmental levels as a result of station operations. The review is summarized in this section. Data from 2013 was compared to preoperational and historical data. Sample data for some media is not directly comparable to preoperational and earlier operational sample results because of either significant changes in the analysis methods or changes in the reporting of the results.

Evaluation for significant trends was performed for the radionuclides that have required LLDs listed in Selected Licensee Commitment 16.11.6. These radionuclides are collectively referred to as "Selected Licensee Commitments radionuclides" and 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. Drinking water gross beta results are routinely trended. Trending of air particulate gross beta results was initiated in 1996 when the analysis was resumed. Trending is also performed for other radionuclides that are detected and could have been the result of station effluents. Only Selected Licensee Commitment radionuclides were detected in 2013.

Trending was performed by comparing annual mean concentrations of any effluent related detected radionuclide to historical results. Factors evaluated include the frequency of detection and the concentration in terms of the percent of the radionuclide's SLC reporting level (Table 2.2-A). All maximum percent of reporting level values were well below the 100% action level. The highest value reached during 2013 due to ONS operation was 2.1% for H-3 in a drinking water sample collected at location 066.

Changes in sample location, analytical technique, and presentation of results must be considered when reviewing for trends. Calculation of the annual mean concentrations has been performed differently over the history of the REMP. During 1979-1986, all net results (sample minus background), positive and negative, were included in the calculation of the mean. Only positive net activity results were used to calculate the mean for the other years. A change in gamma spectroscopy analysis systems in 1987 ended a period when many measurements yielded detectable low-level activity for both indicator and control location samples. It is thought that the method the previous system used to estimate net activity may have been vulnerable to false-positive results.

Data presented in Sections 3.1 - 3.8 support the conclusion that there were no significant increases in radionuclides in the environment around ONS due to station operations in 2013.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

In 2013, 312 radioiodine and particulate samples were analyzed, 260 from five indicator locations and 52 from the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). Radioiodine samples received a weekly gamma analysis.

There was no detectable I-131 in air samples in 2013. Table 3.1-A gives the highest indicator location annual mean and control location annual mean for I-131 since the preoperational period. The table shows similar historical concentrations for both the indicator and control locations and the activities decreasing from early in the operational history of the plant. No I-131 activity due to ONS plant operations has been detected since 1994.

There were no detectable gamma emitting radionuclides detected in air particulate samples in 2013 due to ONS plant operations. No gamma emitting particulates due to ONS plant operations have been detected in indicator location samples since the change in gamma spectroscopy analysis systems in 1987.

Beta analysis of particulate filters was initiated in March of 1996 and became required by Selected Licensee Commitments in 1998. Gross beta analysis was performed on particulate filters during the preoperational and early operational history of the plant but had not been required since 1984. Figure 3.1 summarizes gross beta results for the indicator location with the highest annual mean and the control location samples. Both the indicator and control location results are similar in concentration and are near the lower range of preoperational gross beta results.

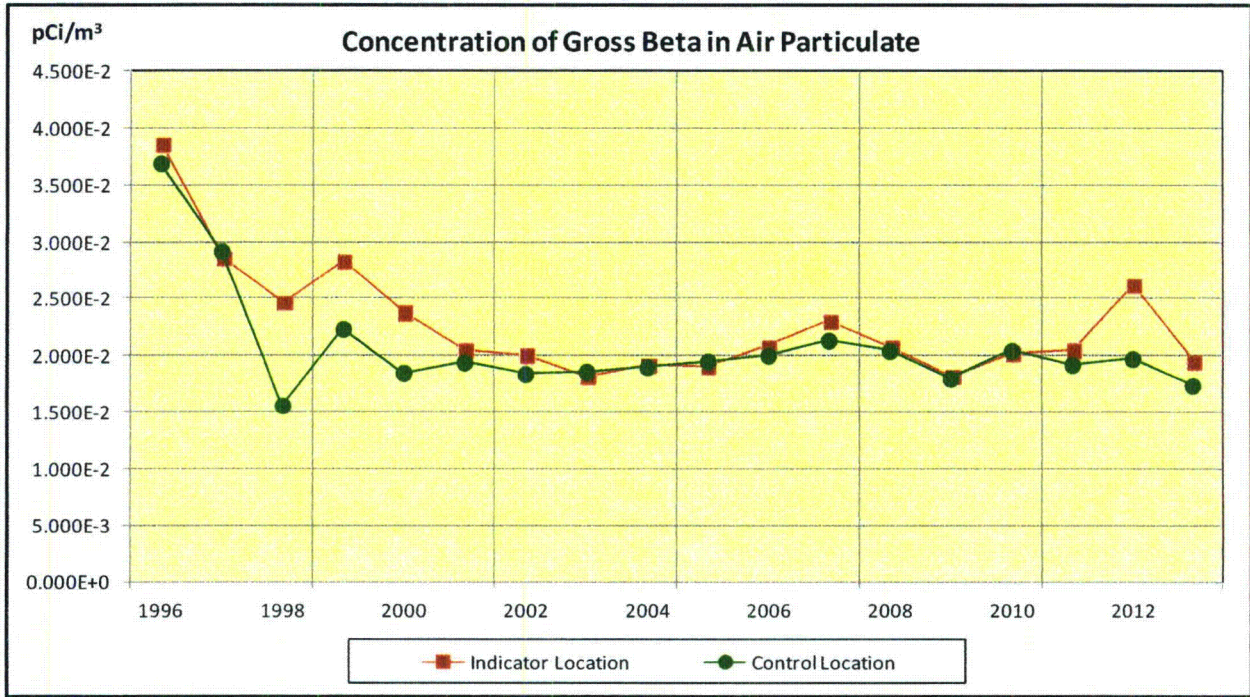
K-40 and Be-7 are the naturally occurring radionuclides that were observed in air samples.

Table 3.1-A Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
Preoperational 1969-1972	0.00E0	0.00E0
Feb. 1973 - June 1973	0.00E0	0.00E0
July 1973 - Dec. 1973	0.00E0	0.00E0
Jan. 1974 - June 1974	0.00E0	0.00E0
July 1974 - Dec. 1974	2.60E-2	8.00E-3
Jan. 1975 - June 1975	8.65E-2	3.12E-2
July 1975 - Dec. 1975	1.13E-2	9.52E-3
1976	2.76E-2	2.18E-2
1977	3.60E-2	3.60E-2
1978	2.19E-1	1.15E-1
1979	7.54E-3	4.75E-4
1980	3.07E-3	9.67E-4
1981	6.31E-3	5.39E-4
1982	2.87E-3	8.10E-4
1983	1.48E-3	3.05E-4
1984	8.11E-4	-2.30E-5
1985	7.71E-4	4.54E-4
1986	5.02E-3	7.86E-3
1987	4.29E-3	5.19E-3
1988	0.00E0	0.00E0
1989	4.99E-4	0.00E0
1990	0.00E0	0.00E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	1.03E-2	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	5.05E-2	4.13E-2
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0

0.00E0 = no detectable measurements
 1979 - 1986 mean based on all net activity results
 2011 concentration affected by Fukushima Daiichi

Figure 3.1



Pre-operational sample results ranged from 0.04 to 1.46 pCi/m³

There is no reporting level for gross beta in air particulate

Table 3.1-B Mean Concentration of Gross Beta in Air Particulate

Monitoring Period	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1996	3.87E-2	3.69E-2
1997	2.87E-2	2.92E-2
1998	2.47E-2	1.56E-2
1999	2.85E-2	2.23E-2
2000	2.38E-2	1.85E-2
2001	2.05E-2	1.94E-2
2002	2.01E-2	1.84E-2
2003	1.86E-2	1.82E-2
2004	1.92E-2	1.90E-2
2005	1.95E-2	1.91E-2
2006	2.09E-2	2.00E-2
2007	2.31E-2	2.13E-2
2008	2.08E-2	2.04E-2
2009	1.82E-2	1.80E-2
2010	2.02E-2	2.04E-2
2011	2.06E-2	1.92E-2
2012	2.63E-2	1.97E-2
Average (2003 - 2012)	2.07E-2	1.95E-2
2013	1.96E-2	1.74E-2

3.2 DRINKING WATER

Gross beta analysis and gamma spectroscopy were performed on 39 monthly drinking water samples. These samples were composited to form 12 quarterly period samples for Tritium analysis. Two indicator locations and a control location were sampled; however, only one of the indicator locations is downstream of the effluent release point.

Table 3.2 lists the highest indicator location annual mean and control location annual mean for gross beta results since the preoperational period. The indicator location had an average concentration of 1.57 pCi/liter in 2013, and the control location had a concentration of 1.11 pCi/liter. The 2012 indicator mean was 1.40 pCi/liter. The table shows that 2013 gross beta levels in drinking water are lower than preoperational concentrations. The dose for consumption of water was less than one mrem per year, historically and for 2013; therefore low-level iodine analysis is not required.

Tritium was detected in three of the twelve composite samples during 2013. The 2013 mean indicator location 066 concentration was 325 pCi/liter, which is 1.63% of the reporting level. Table 3.2 and Figure 3.2 show the highest indicator and control location annual means for Tritium since analysis was initiated early in the operational period. Tritium concentrations have decreased at both the indicator and control locations. The closure of the Clemson water plant in 1989 is one reason for the decrease shown in the table and graph. The Clemson site was typically the high mean location when the plant was in operation.

There were no gamma emitting radionuclides identified in drinking water samples in 2013. Gamma spectroscopy analysis has not detected any activity in the water supplies since 1988. K-40 is the naturally occurring radionuclide that was observed in drinking water samples.

Figure 3.2 *Current reporting level implemented 1984*

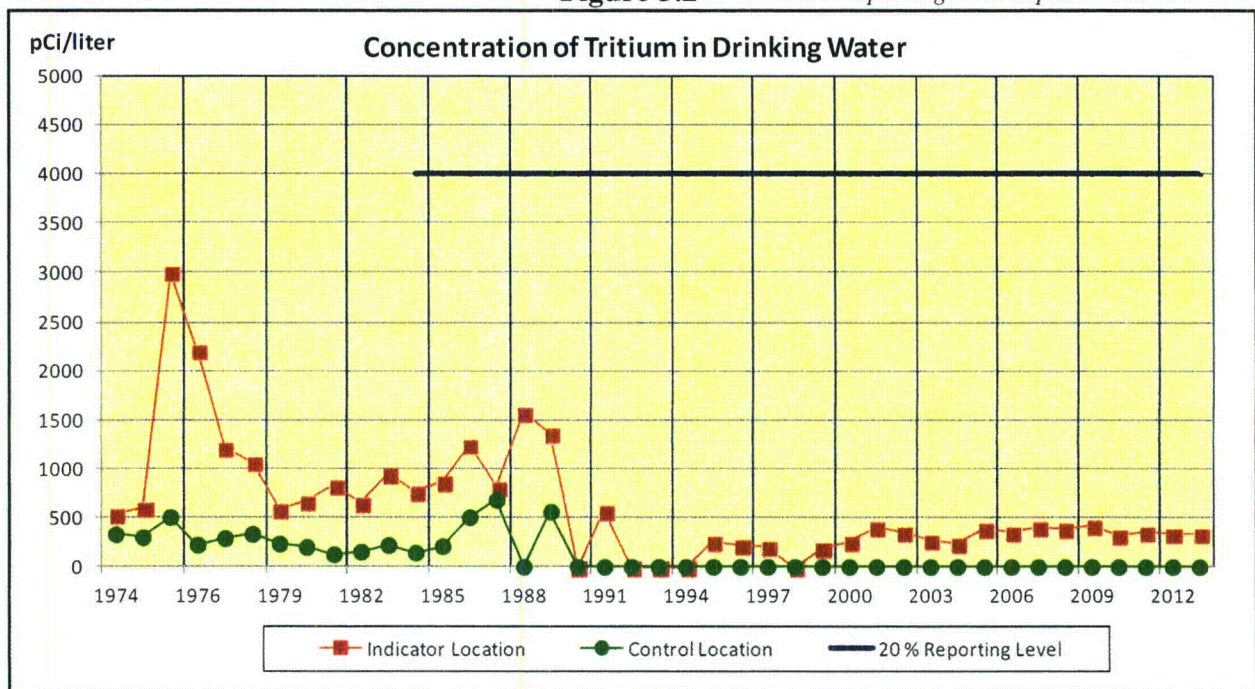


Table 3.2 Mean Concentrations of Radionuclides in Drinking Water

Year	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
Preoperational ending Jan. 1971	3.03	5.90	Analysis not required	
Preoperational ending Jan. 1973	3.58	4.94	Analysis not required	
Feb. 1973 - June 1973	Qualitative results reported		Analysis not required	
June 1973 - Dec. 1973	7.15	21.78	Analysis not required	
Jan. 1974 - June 1974	3.13	6.98	Analysis not required	
July 1974 - Dec. 1974	2.24	2.02	525	330
Jan. 1975 - June 1975	1.98	1.59	600	300
July 1975 - Dec. 1975	2.01	1.22	2990	505
1976	2.38	2.00	2196	224
1977	2.70	2.30	1200	290
1978	2.56	2.17	1050	333
1979	1.83	1.36	576	235
1980	1.86	1.63	660	200
1981	1.98	1.88	830	127
1982	2.04	1.45	643	153
1983	1.85	1.54	937	220
1984	1.87	1.08	765	145
1985	2.14	1.16	856	210
1986	1.91	1.04	1240	503
1987	2.00	1.20	815	680
1988	2.00	1.40	1570	0.00
1989	2.30	1.80	1350	559
1990	3.00	2.70	0.00	0.00
1991	1.80	1.40	558	0.00
1992	3.20	1.60	0.00	0.00
1993	2.10	1.90	0.00	0.00
1994	1.90	2.10	0.00	0.00
1995	5.10	2.90	248	0.00
1996	2.07	1.77	214	0.00
1997	2.52	2.23	194	0.00
1998	2.48	1.70	0.00	0.00
1999	1.73	1.49	185	0.00
2000	2.07	1.68	251	0.00
2001	1.75	1.29	390	0.00
2002	1.61	1.21	338	0.00
2003	1.51	1.05	266	0.00
2004	1.58	1.25	225	0.00
2005	1.28	1.37	377	0.00
2006	1.54	1.75	340	0.00
2007	1.58	1.08	402	0.00
2008	1.82	1.25	372	0.00
2009	1.37	1.19	415	0.00
2010	1.10	0.97	308	0.00
2011	1.18	1.00	339	0.00
2012	1.40	0.92	322	0.00
2013	1.57	1.11	325	0.00

0.00 = no detectable measurements

1989 - Clemson water plant closes; nearest downstream plant is Anderson.

1979 - 1986 mean based on all net activity results

3.3 SURFACE WATER

Gamma spectroscopy was performed on 26 monthly surface water samples. These samples were composited to form eight quarterly samples for Tritium analysis. One indicator and one control location were sampled. The indicator location is near the liquid effluent release point.

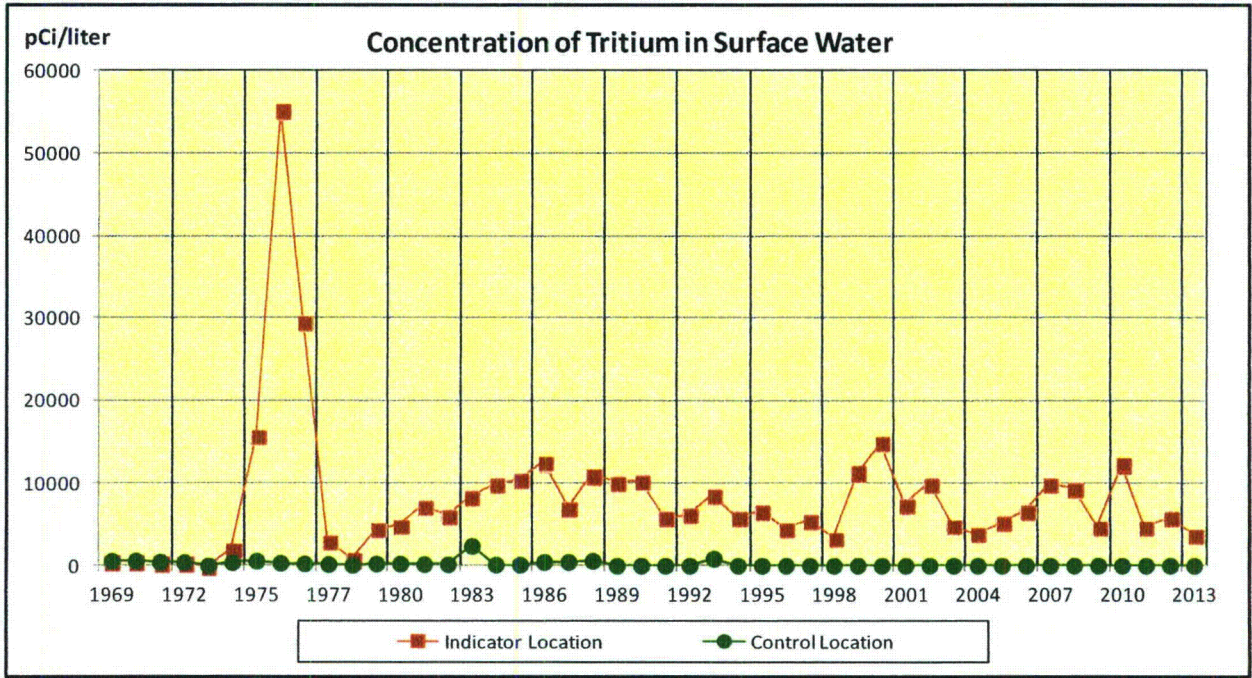
Tritium was detected in the four indicator location samples. The 2013 average concentration was 3,683 pCi/liter. The individual samples ranged from 1,290 to 7,890 pCi/liter. The 2012 mean concentration was 5,760 pCi/liter. Tritium was not detected in any control surface water samples.

Figure 3.3 shows the indicator and control annual means for Tritium since the preoperational period. Table 3.3 lists the indicator annual means.

Gamma spectroscopy analysis did not detect any station related activity during 2013. No gamma emitting radionuclides attributable to station operation have been detected in surface water samples since 1999. Table 3.3 summarizes the indicator annual means of radionuclides detected since the change in the gamma spectroscopy analysis system in 1987. Visual inspection of the gamma spectroscopy tabular data covering the early operational period through 2013 did not reveal any increasing trends.

K-40 and Be-7 are the naturally occurring radionuclide observed in surface water samples in 2013.

Figure 3.3



There is no reporting level for Tritium in surface water

Table 3.3 Mean Concentrations of Radionuclides in Surface Water

Year	Co-58 (pCi/l)	Co-60 (pCi/l)	Nb-95 (pCi/l)	Cs-137 (pCi/l)	H-3 pCi/l)
Preoperational 1969		Qualitative results reported			4.86E2
Preoperational 1970		Qualitative results reported			5.94E2
Preoperational 1971		Qualitative results reported			4.01E2
Preoperational 1972		Qualitative results reported			3.62E2
1973		Qualitative results reported			0.00E0
1974	0.00E0	1.32E1	0.00E0	1.60E1	1.99E3
Jan. 1975 – June 1975	0.00E0	0.00E0	0.00E0	0.00E0	1.56E4
July 1975 – Dec. 1975	0.00E0	1.34E1	0.00E0	0.00E0	5.52E4
1976	1.08E2	3.30E1	0.00E0	3.50E1	2.95E4
1977	2.60E1	1.80E1	0.00E0	3.10E1	2.90E3
1978	2.96E2	0.00E0	0.00E0	2.22E1	8.00E2
1979	1.33E0	2.60E0	1.78E0	2.82E0	4.37E3
1980	1.56E0	2.30E0	1.22E0	5.40E0	4.93E3
1981	1.10E0	6.10E-1	1.70E0	3.90E0	7.21E3
1982	6.14E-1	1.99E0	2.29E0	4.85E0	6.13E3
1983	6.99E-1	3.02E0	3.91E-1	6.83E-1	8.40E3
1984	9.40E-1	6.30E-1	7.90E-1	4.83E-1	9.90E3
1985	2.15E-1	6.27E-1	4.95E-1	9.90E-1	1.05E4
1986	3.28E0	1.23E0	1.14E0	3.07E-1	1.26E4
1987	5.10E1	3.40E0	4.00E0	0.00E0	7.08E3
1988	6.20E0	5.00E0	2.50E0	3.50E0	1.10E4
1989	5.30E0	3.00E0	0.00E0	3.40E0	1.02E4
1990	1.70E0	1.60E0	0.00E0	0.00E0	1.03E4
1991	5.40E0	0.00E0	0.00E0	0.00E0	5.76E3
1992	2.50E0	0.00E0	0.00E0	0.00E0	6.22E3
1993	0.00E0	0.00E0	0.00E0	0.00E0	8.62E3
1994	0.00E0	0.00E0	0.00E0	0.00E0	5.75E3
1995	0.00E0	0.00E0	0.00E0	0.00E0	6.65E3
1996	0.00E0	0.00E0	0.00E0	0.00E0	4.54E3
1997	0.00E0	0.00E0	0.00E0	0.00E0	5.50E3
1998	0.00E0	0.00E0	0.00E0	0.00E0	3.35E3
1999	2.73E1	0.00E0	0.00E0	0.00E0	1.13E4
2000	0.00E0	0.00E0	0.00E0	0.00E0	1.48E4
2001	0.00E0	0.00E0	0.00E0	0.00E0	7.43E3
2002	0.00E0	0.00E0	0.00E0	0.00E0	1.00E4
2003	0.00E0	0.00E0	0.00E0	0.00E0	4.77E3
2004	0.00E0	0.00E0	0.00E0	0.00E0	3.86E3
2005	0.00E0	0.00E0	0.00E0	0.00E0	5.15E3
2006	0.00E0	0.00E0	0.00E0	0.00E0	6.72E3
2007	0.00E0	0.00E0	0.00E0	0.00E0	9.91E3
2008	0.00E0	0.00E0	0.00E0	0.00E0	9.43E3
2009	0.00E0	0.00E0	0.00E0	0.00E0	4.68E3
2010	0.00E0	0.00E0	0.00E0	0.00E0	1.23E4
2011	0.00E0	0.00E0	0.00E0	0.00E0	4.75E3
2012	0.00E0	0.00E0	0.00E0	0.00E0	5.76E3
2013	0.00E0	0.00E0	0.00E0	0.00E0	3.68E3

0.00E0 = no detectable measurements
 1979-1986 mean based on all net activity results

3.4 MILK

Gamma spectroscopy and low level iodine analysis was performed on 26 milk samples collected in 2013. One control location was sampled. No indicator dairies were identified by the 2013 land use census.

There were no gamma emitting radionuclides due to ONS plant operations identified in milk samples in 2013. Cs-137 is the only radionuclide, other than naturally occurring, reported in milk samples since 1988 (excluding Fukushima Daiichi). Cs-137 in milk is not unusual. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed periodically in samples from indicator and control locations since the preoperational period.

Table 3.4 lists the highest indicator location annual mean and control location annual mean for Cs-137 since the preoperational period. The table shows similar concentrations for both indicator and control locations.

K-40 is a naturally occurring radionuclide observed in milk samples in 2013.

Table 3.4 Mean Concentration of Radionuclides in Milk

Year	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
Preoperational	1.57E1	1.46E1
Feb. 1973 – June 1973	Qualitative results reported	Qualitative results reported
July 1973 – Dec. 1973	5.80E0	Qualitative results reported
Jan. 1974 – June 1974	5.30E0	0.00E0
July 1974 – Dec. 1974	1.11E1	0.00E0
Jan. 1975 – June 1975	1.51E1	9.45E0
July 1975 – Dec. 1975	0.00E0	0.00E0
1976	1.80E1	7.47E0
1977	0.00E0	0.00E0
1978	1.33E1	1.33E1
1979	7.25E0	2.52E0
1980	3.58E0	2.63E0
1981	5.52E0	5.51E0
1982	2.71E0	3.25E0
1983	5.04E0	-4.27E-1
1984	2.30E0	2.58E0
1985	2.38E0	1.31E0
1986	2.92E0	2.97E0
1987	4.90E0	4.90E0
1988	3.90E0	3.20E0
1989	4.70E0	2.90E0
1990	6.40E0	0.00E0
1991	5.00E0	0.00E0
1992	6.60E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	1.80E0
1995	2.30E0	2.00E0
1996	0.00E0	4.10E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	NO INDICATOR LOCATION	0.00E0
2007	NO INDICATOR LOCATION	0.00E0
2008	NO INDICATOR LOCATION	0.00E0
2009	NO INDICATOR LOCATION	0.00E0
2010	NO INDICATOR LOCATION	0.00E0
2011	NO INDICATOR LOCATION	0.00E0
2012	NO INDICATOR LOCATION	0.00E0
2013	NO INDICATOR LOCATION	0.00E0

0.00E0 = no detectable measurements

1979 - 1986 mean based on all net activity results

The Oconee milk program was updated to align with NUREG-1301 during 2005 and documented in PIP O-04-01179. Location 071 was designated as the new control site effective with the 7/12/2005 sampling. No indicator dairies were identified by the 2013 land use census.

3.5 BROADLEAF VEGETATION

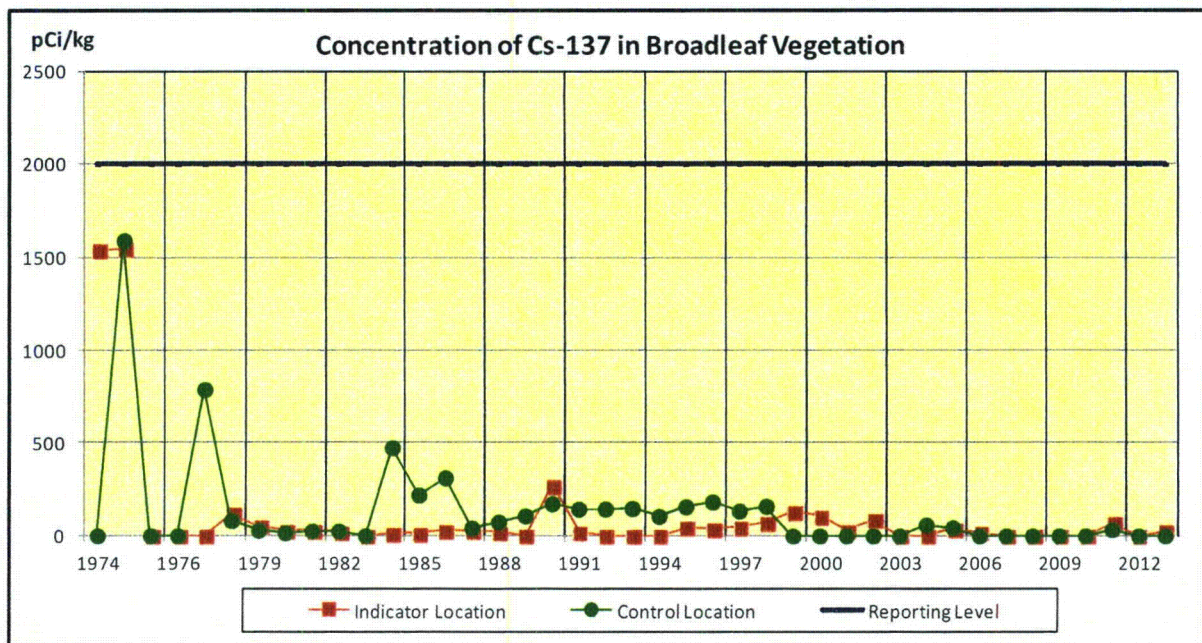
Gamma spectroscopy was performed on 48 broadleaf vegetation samples during 2013. Three indicator locations and one control location were sampled. Cs-137 was reported in one indicator sample at a concentration of 25.7 pCi/kg (1.29% of reporting level). Cs-137 was not detected in any of the control samples in 2013.

Cs-137 is the only radionuclide, other than naturally occurring, reported in vegetation samples since the change in gamma spectroscopy analysis systems in 1987. Table 3.5 shows historical concentrations of Cs-137.

It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Table 3.5 lists the highest indicator location annual mean and control location annual mean for Cs-137 since early in the station's operational history. Visual inspection of the tabular data did not reveal any increasing trends.

K-40 and Be-7 are naturally occurring radionuclides that were observed in broadleaf vegetation samples in 2013.

Figure 3.5



2011 concentration affected by Fukushima Daiichi

Table 3.5 Mean Concentration of Radionuclides in Vegetation

Year	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
July 1974 - Dec. 1974	1.54E3	0.00E0
Jan. 1975 - June 1975	1.55E3	1.59E3
July 1975 - Dec. 1975	0.00E0	0.00E0
1976	0.00E0	0.00E0
1977	0.00E0	7.90E2
1978	1.19E2	8.19E1
1979	5.04E1	2.96E1
1980	2.80E1	1.55E1
1981	2.99E1	2.60E1
1982	2.42E1	2.62E1
1983	7.44E0	5.35E-1
1984	1.37E1	4.74E2
1985	1.62E1	2.20E2
1986	3.28E1	3.12E2
1987	2.70E1	4.20E1
1988	2.40E1	7.50E1
1989	0.00E0	1.08E2
1990	2.73E2	1.74E2
1991	2.20E1	1.45E2
1992	0.00E0	1.46E2
1993	0.00E0	1.49E2
1994	0.00E0	1.06E2
1995	4.30E1	1.58E2
1996	3.79E1	1.83E2
1997	4.73E1	1.35E2
1998	7.28E1	1.61E2
1999	1.34E2	0.00E0
2000	1.06E2	0.00E0
2001	3.19E1	0.00E0
2002	8.44E1	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	5.96E1
2005	4.51E1	4.11E1
2006	1.77E1	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	6.68E1	3.35E1
2012	0.00E0	0.00E0
2013	2.57E1	0.00E0

0.00E0 = no detectable measurements
 Only qualitative results reported prior to 1974
 Control location changed to 073 in 1984
 Control location 081 added in 1998
 Control location 073 was removed in 1999
 1979 - 1986 mean based on all net activity results
 2011 concentration affected by Fukushima Daiichi

3.6 FISH

In 2013, gamma spectroscopy was performed on 13 fish samples. Two downstream indicator and one control location were sampled. Cs-137 was identified in eight of the nine indicator location samples. Cs-137 was detected in three of the four control location samples at a mean concentration of 16.0 pCi/kg. The highest average indicator concentration for Cs-137 was 24.4 pCi/kg (1.22% of reporting level).

Figures 3.6-1 and 3.6-2 are graphs displaying the annual means for Cs-137 and Cs-134. Historically, both are contributors to the calculated dose from liquid effluents from ingestion of fish. Radioactivity concentrations in downstream fish samples are higher than those reported in preoperational fish samples, however, concentrations in fish have decreased over time with decreases in radioactive material releases from the plant.

One factor affecting the trend analysis is a change in sampling locations. In 1984, a second downstream fish location was added. Location 063 is closer to the liquid effluent discharge point and has been the highest mean indicator since it was added.

Table 3.6 lists the highest indicator location annual means since the preoperational period for radionuclides detected in 2013. Also included in the table are radionuclides that have been identified in this media since the change in analysis systems in 1987. Comparison of data to previous years does not indicate any increases in concentrations.

K-40 was observed in fish samples in 2013.

Figure 3.6-1

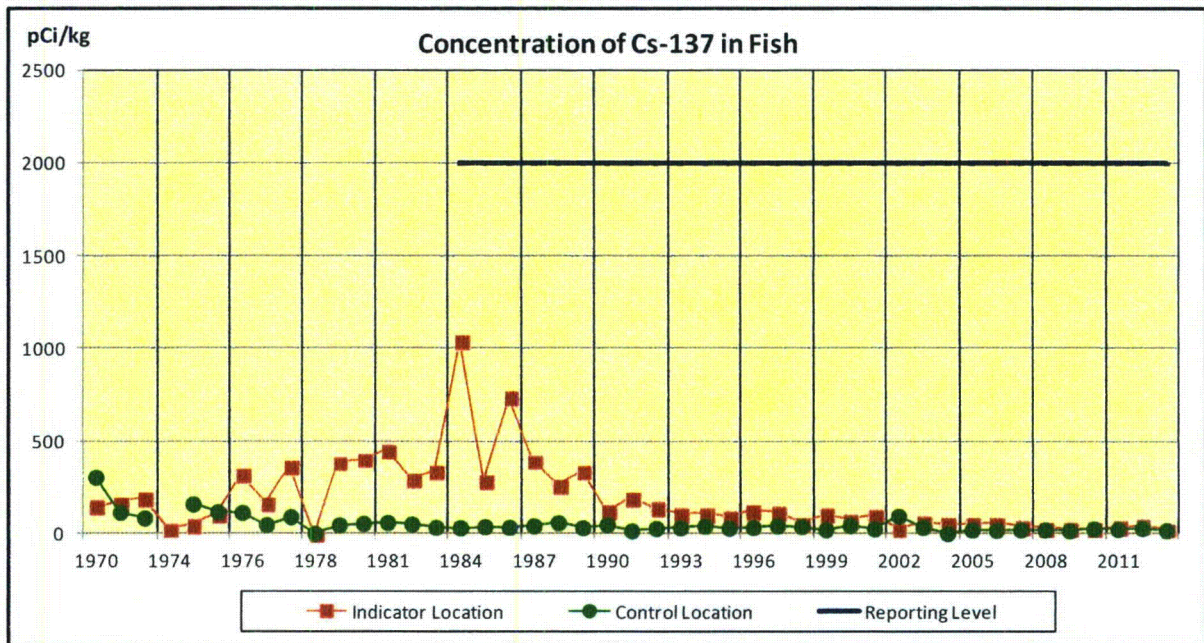
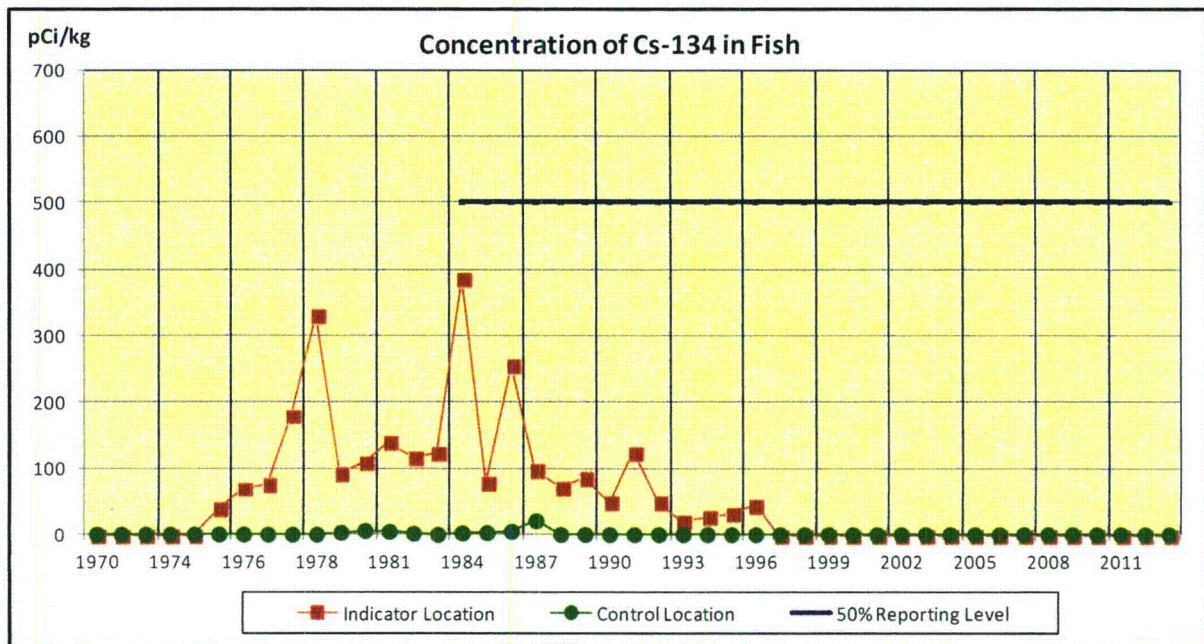


Figure 3.6-2



Current reporting levels implemented 1984

Table 3.6 Mean Concentrations of Radionuclides in Fish

Year	Co-58 (pCi/kg)	Co-60 (pCi/kg)	Cs-134 (pCi/kg)	Cs-137 (pCi/kg)
Preop ending Jan.1971	0.00E0	0.00E0	0.00E0	1.46E2
Preop ending Jan.1973	0.00E0	0.00E0	0.00E0	1.66E2
Feb. 1973 - June 1973	Qualitative results reported-no significant measurements above background			
July 1973 - Dec. 1973	0.00E0	0.00E0	0.00E0	1.89E2
Jan. 1974 - June 1974	0.00E0	0.00E0	0.00E0	2.47E1
July 1974 - Dec. 1974	0.00E0	0.00E0	0.00E0	4.85E1
Jan. 1975 - June 1975	0.00E0	0.00E0	3.81E1	1.05E2
July 1975 - Dec. 1975	8.50E1	0.00E0	7.00E1	3.13E2
1976	5.70E1	1.14E2	7.73E1	1.66E2
1977	0.00E0	0.00E0	1.80E2	3.60E2
1978	3.27E2	0.00E0	3.31E2	0.00E0
1979	1.91E0	1.56E1	9.26E1	3.88E2
1980	1.45E1	1.90E1	1.10E2	3.99E2
1981	2.25E1	1.49E1	1.40E2	4.51E2
1982	9.83E-1	8.03E0	1.17E2	2.94E2
1983	3.35E1	4.53E0	1.24E2	3.32E2
1984	1.21E2	6.23E1	3.87E2	1.04E3
1985	1.62E1	1.10E1	7.93E1	2.85E2
1986	9.56E1	2.59E1	2.57E2	7.36E2
1987	1.63E2	6.30E1	9.80E1	3.93E2
1988	9.60E1	0.00E0	7.20E1	2.60E2
1989	4.30E1	1.50E1	8.60E1	3.36E2
1990	1.50E1	0.00E0	4.80E1	1.19E2
1991	4.59E1	0.00E0	1.25E2	1.94E2
1992	6.10E1	0.00E0	4.80E1	1.36E2
1993	0.00E0	0.00E0	2.10E1	1.10E2
1994	0.00E0	0.00E0	2.80E1	1.05E2
1995	0.00E0	0.00E0	3.10E1	9.20E1
1996	0.00E0	0.00E0	4.49E1	1.25E2
1997	0.00E0	0.00E0	0.00E0	1.18E2
1998	0.00E0	0.00E0	0.00E0	5.79E1
1999	0.00E0	0.00E0	0.00E0	1.04E2
2000	0.00E0	0.00E0	0.00E0	7.54E1
2001	1.72E1	0.00E0	0.00E0	9.92E1
2002	0.00E0	0.00E0	0.00E0	9.37E1
2003	5.02E1	0.00E0	0.00E0	6.04E1
2004	0.00E0	0.00E0	0.00E0	5.29E1
2005	0.00E0	0.00E0	0.00E0	5.14E1
2006	0.00E0	0.00E0	0.00E0	5.58E1
2007	0.00E0	0.00E0	0.00E0	4.10E1
2008	0.00E0	0.00E0	0.00E0	3.13E1
2009	9.01E0	0.00E0	0.00E0	2.68E1
2010	0.00E0	0.00E0	0.00E0	2.69E1
2011	0.00E0	0.00E0	0.00E0	3.53E1
2012	1.23E2	3.61E1	0.00E0	4.32E1
2013	0.00E0	0.00E0	0.00E0	2.44E1

0.00E0 = no detectable measurements
 1979 - 1986 mean based on all net activity results

3.7 SHORELINE SEDIMENT

Gamma spectroscopy was performed on six sediment samples. Two downstream indicator locations and one control location were sampled. Four samples were taken from indicator locations and two from the control location.

Cs-137 was identified in one of the four indicator location samples. Cs-137 was not identified in the control location samples. The highest 2013 individual sample Cs-137 concentration was 43.7 pCi/kg. The highest 2012 individual sample Cs-137 concentration was 80.6 pCi/kg. Table 3.7 lists the highest indicator location annual means since shoreline sediment was initiated in 1984. Included in the table are radionuclides that have been identified in this media since the change in analysis systems in 1987.

Visual inspection of the tabular data did not reveal any trends. Figure 3.7-1 is a graph of the Cs-137 annual means. Figure 3.7-2 is a graph of the Co-60 annual means. Historically, both are contributors to the calculated dose from liquid effluents from shoreline sediment. No trends are apparent.

K-40 and Be-7 are naturally occurring radionuclides observed in shoreline sediment samples in 2013.

Figure 3.7-1

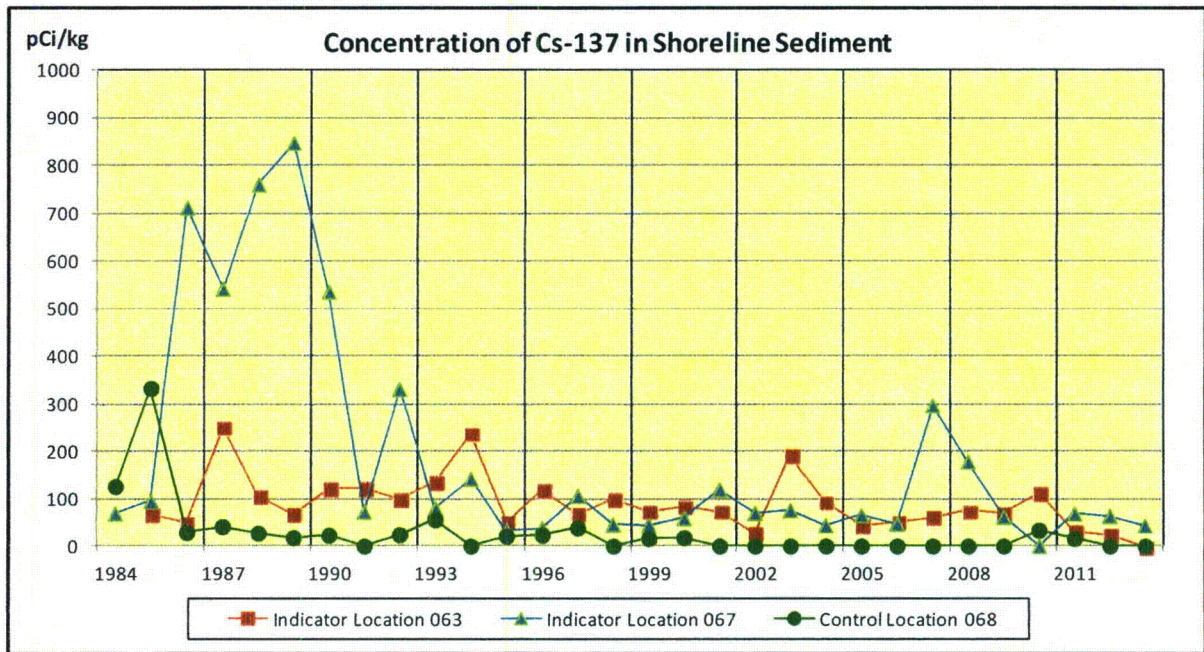
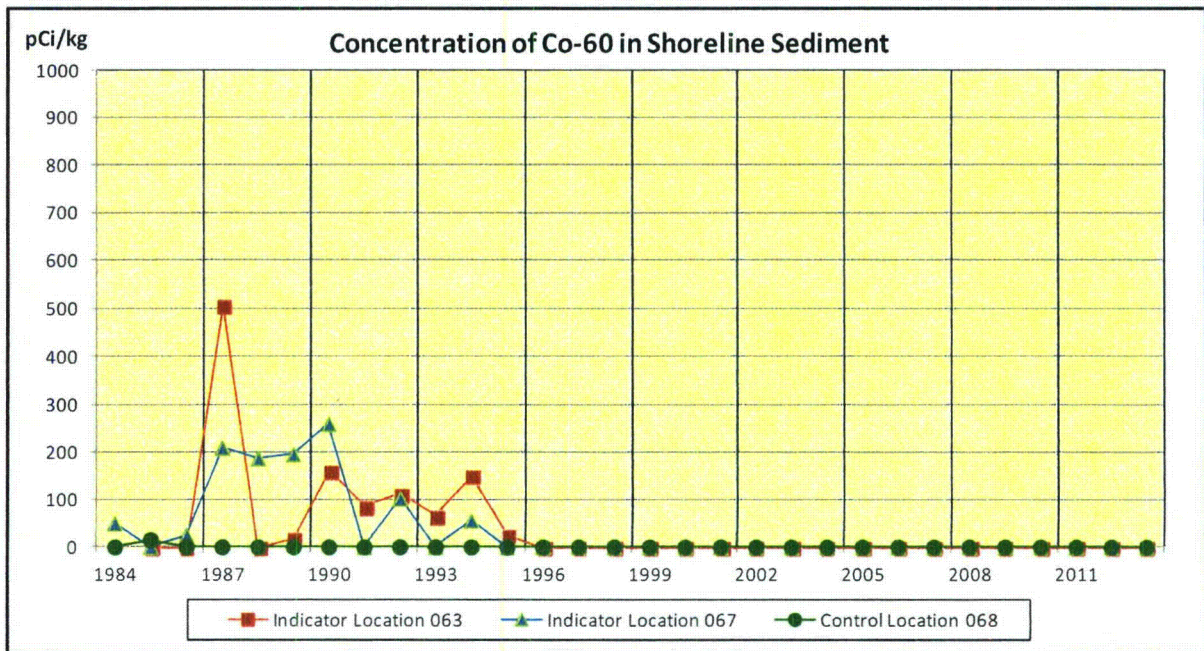


Figure 3.7-2



There are no reporting levels for shoreline sediment

Table 3.7 Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)

Year	Mn-54	Co-58	Co-60	Zn-65	Cs-134	Cs-137	Ag-110m	Sb-125
1984	1.10E1	1.09E1	1.19E1	0.00E0	7.77E1	5.16E1	0.00E0	0.00E0
1985	9.39E0	1.27E0	4.79E0	0.00E0	7.63E1	9.47E1	0.00E0	0.00E0
1986	2.24E1	1.62E1	2.50E1	0.00E0	1.41E2	7.12E2	0.00E0	0.00E0
1987	5.40E1	4.70E2	5.07E2	0.00E0	1.01E2	6.22E2	3.46E2	0.00E0
1988	3.30E1	1.20E2	1.87E2	6.70E1	6.60E1	7.59E2	1.62E2	3.67E2
1989	2.30E1	1.24E2	1.96E2	0.00E0	5.40E1	8.48E2	5.50E1	1.86E2
1990	3.40E1	8.00E1	2.59E2	0.00E0	4.50E1	5.36E2	1.71E2	9.00E1
1991	3.26E1	5.60E1	8.57E1	0.00E0	6.91E1	1.24E2	1.10E2	1.78E2
1992	8.79E1	1.79E2	1.12E2	0.00E0	5.60E1	3.31E2	1.69E2	2.08E2
1993	8.20E1	8.20E1	6.50E1	0.00E0	3.20E1	1.36E2	5.63E1	1.11E2
1994	5.30E1	7.00E1	1.49E2	0.00E0	6.70E1	2.38E2	1.04E2	1.29E2
1995	1.43E2	3.90E1	2.40E1	0.00E0	1.10E1	5.20E1	0.00E0	0.00E0
1996	0.00E0	5.10E1	0.00E0	0.00E0	1.98E1	1.19E2	0.00E0	0.00E0
1997	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.06E2	0.00E0	0.00E0
1998	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.01E2	0.00E0	0.00E0
1999	6.96E1	0.00E0	0.00E0	0.00E0	0.00E0	7.38E1	0.00E0	0.00E0
2000	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	8.54E1	0.00E0	0.00E0
2001	0.00E0	2.10E1	0.00E0	0.00E0	0.00E0	1.20E2	0.00E0	0.00E0
2002	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.96E1	0.00E0	0.00E0
2003	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.93E2	0.00E0	0.00E0
2004	8.54E1	0.00E0	0.00E0	0.00E0	0.00E0	9.56E1	0.00E0	0.00E0
2005	2.00E2	0.00E0	0.00E0	0.00E0	0.00E0	6.53E1	0.00E0	0.00E0
2006	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	5.01E1	0.00E0	0.00E0
2007	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.97E2	0.00E0	0.00E0
2008	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.78E2	0.00E0	0.00E0
2009	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.97E1	0.00E0	0.00E0
2010	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.15E2	0.00E0	0.00E0
2011	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.83E1	0.00E0	0.00E0
2012	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.35E1	0.00E0	0.00E0
2013	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	4.37E1	0.00E0	0.00E0

0.00E0 = no detectable measurements

1984-1986 mean based on all net activity results

3.8 DIRECT GAMMA RADIATION

3.8.1 ENVIRONMENTAL TLD

In 2013, 167 Thermoluminescent Dosimeters (TLD) were analyzed, 159 at indicator locations, 8 at the two control locations. TLDs are collected and analyzed quarterly. A transit background for environmental TLDs is determined based on ANSI N545. The highest annual mean exposure for an indicator location was 110.4 milliroentgen. This TLD is located at indicator location 040, 4.74 miles from the station. The annual mean exposure for the control locations was 110.2 milliroentgen.

Figure 3.8 and Table 3.8 show TLD inner ring (site boundary), outer ring (4-5 miles), and control location annual averages in milliroentgen per year. Data is provided from 1984 when TLD locations were added and arranged in an inner ring and outer ring configuration. Preoperational data is also provided in the table. As shown in the graph, inner and outer ring averages historically compare closely, with control data somewhat higher. Inner and outer ring averages comprise a number of data points with control averages representing only two locations. The control locations have historically been higher than indicator locations. This is most likely an artifact of the underlying geologic structures at the control locations. The control locations are 9.39 miles WSW and 9.33 miles SE, well beyond the influence of the plant.

The calculated total body dose (from gaseous effluents) for 2013 was 1.14E-1 mrem, which is 0.14% of the average inner ring TLD values. Therefore, it can be concluded that discharges from the plant had very little impact upon the measured TLD values.

A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in section 5.10.

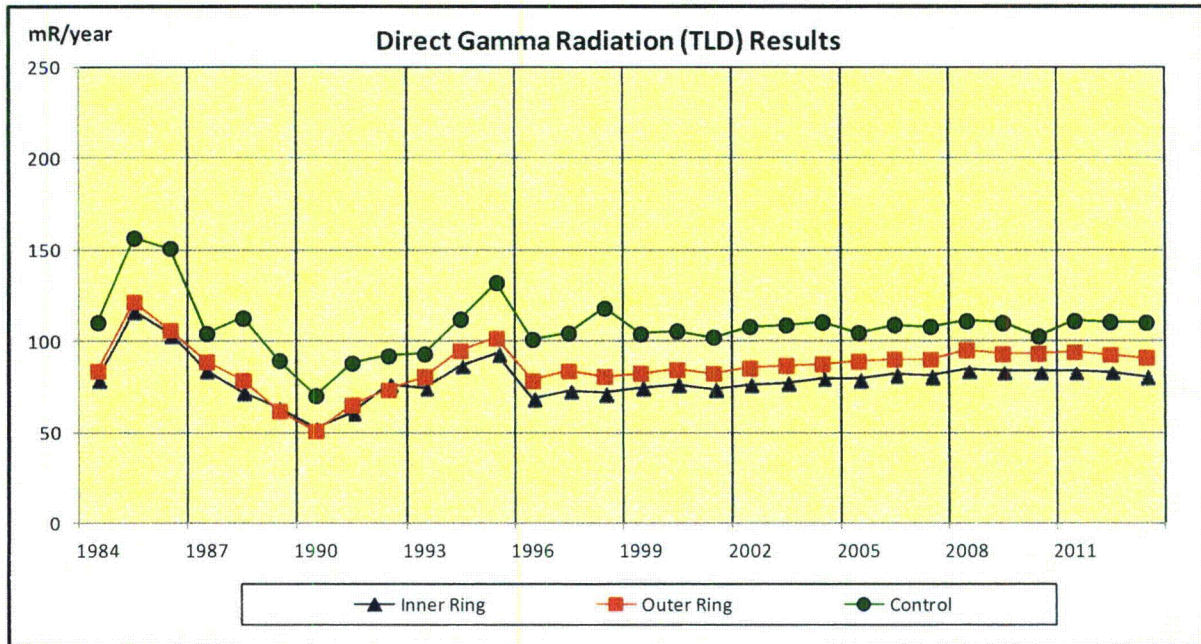
3.8.2 ISFSI

The Oconee Independent Spent Fuel Storage Installation (ISFSI) is a fenced, secured area constructed to provide dry storage for spent nuclear fuel. The principal components of the ISFSI are concrete horizontal storage modules that hold stainless steel dry storage canisters containing irradiated fuel assemblies. Oconee began storage of spent fuel at the ISFSI in 1990.

The ISFSI is located in the southwest end of the plant, approximately 400 meters from Unit 2 reactor building. The radiological environmental monitoring program for Oconee also serves as the operational program for the ISFSI. No liquid or airborne effluents are anticipated from the passive storage provided by the ISFSI. Therefore any dose to offsite points would be from direct and scattered gamma radiation. Several environmental TLD locations are presently located at the Oconee site boundary fence near the ISFSI. The closest of these is 0.3 miles from the ISFSI, well within the 1-mile exclusion boundary. In addition, dose rates at the ISFSI restricted area fence are monitored with TLDs and used in monitoring occupational exposure controls.

The maximum measurement from TLDs at the Independent Spent Fuel Storage Installation fence (which is not accessible to the public) was 580 milliroentgen per standard quarter. This is consistent with previous measurements.

Figure 3.8



There is no reporting level for Direct Radiation (TLD)

Table 3.8 Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR/yr)	Outer Ring Average (mR/yr)	Control (mR/yr)
Preoperational	113	124	149
1984	79.4	83.8	110
1985	117	122	157
1986	104	106	151
1987	84.3	88.8	104
1988	72.3	78.6	113
1989	63.7	61.7	89.4
1990	52.2	50.7	70.1
1991	61.2	65.0	88.0
1992	76.2	73.2	92.0
1993	74.8	80.6	93.0
1994	86.8	94.7	112
1995	93.6	102	132
1996	68.5	78.3	101
1997	72.8	83.8	104
1998	71.7	80.8	118
1999	74.5	82.5	104
2000	76.2	84.5	106
2001	73.6	82.4	102
2002	76.6	85.3	108
2003	77.4	86.6	109
2004	80.1	87.5	110
2005	79.3	89.0	105
2006	82.0	90.2	109
2007	81.0	90.0	108
2008	84.6	95.0	111
2009	83.7	93.0	110
2010	83.6	93.2	103
2011	83.7	94.0	111
2012	83.1	92.6	111
Average (2003 - 2012)	81.9	91.1	109
2013	80.7	91.0	110

3.9 LAND USE CENSUS

The Land Use Census was conducted during the growing season (5/20/2013) as required by SLC 16.11.6. Table 3.9 summarizes census results. A map indicating identified locations is shown in Figure 3.9. The nearest residence is located in the NNW sector at 1.03 miles. No program changes were required based on the results of the census.

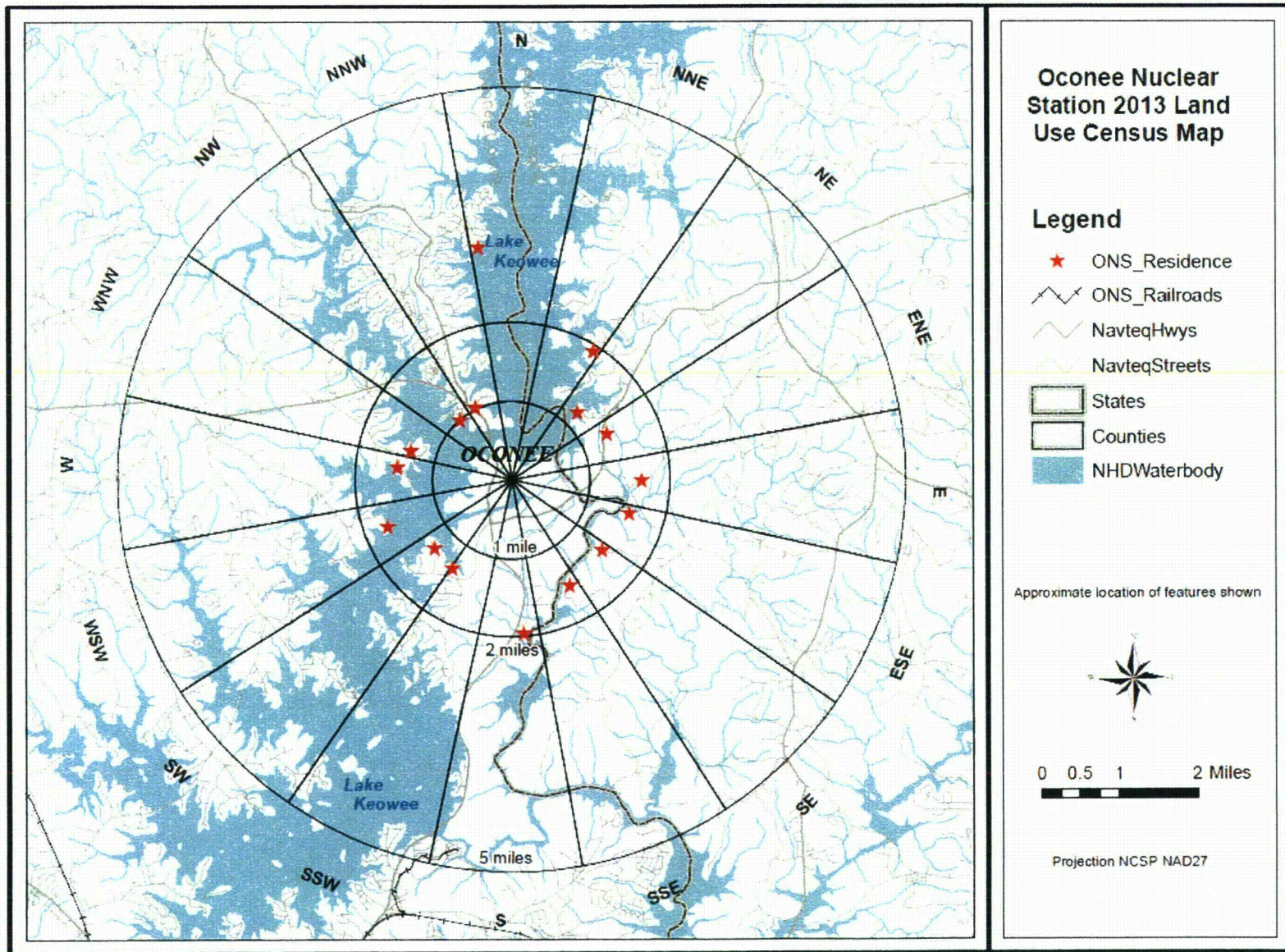
Table 3.9 Oconee 2013 Land Use Census Results

Sector		Distance (Miles)	Sector		Distance (Miles)
N	Nearest Residence	2.98	S	Nearest Residence	1.96
	Nearest Milk Animal	-		Nearest Milk Animal	-
NNE	Nearest Residence	1.84	SSW	Nearest Residence	1.36
	Nearest Milk Animal	-		Nearest Milk Animal	-
NE	Nearest Residence	1.20	SW	Nearest Residence	1.31
	Nearest Milk Animal	-		Nearest Milk Animal	-
ENE	Nearest Residence	1.34	WSW	Nearest Residence	1.76
	Nearest Milk Animal	-		Nearest Milk Animal	-
E	Nearest Residence	1.64	W	Nearest Residence	1.58
	Nearest Milk Animal	-		Nearest Milk Animal	-
ESE	Nearest Residence	1.57	WNW	Nearest Residence	1.35
	Nearest Milk Animal	-		Nearest Milk Animal	-
SE	Nearest Residence	1.46	NW	Nearest Residence	1.04
	Nearest Milk Animal	-		Nearest Milk Animal	-
SSE	Nearest Residence	1.54	NNW	Nearest Residence	1.03
	Nearest Milk Animal	-		Nearest Milk Animal	-

“-“ indicates no occurrences within the 5 mile radius

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

Figure 3.9



4.0 EVALUATION OF DOSE

4.1 DOSE FROM ENVIRONMENTAL MEASUREMENTS

Annual doses to maximum exposed individuals were estimated based on measured concentrations of radionuclides in 2013 ONS REMP samples. The primary purpose of estimating doses based on sample results is to allow comparison to effluent program dose estimates. Doses based on sample results were conservatively calculated in a manner as equivalent as possible to effluent-based dose estimates.

Doses based on REMP sample results were calculated using the methodology and data presented in NRC Regulatory Guide 1.109. Measured radionuclide concentrations, averaged over the entire year for a specific radionuclide, indicator location, and sample type, were used to calculate REMP-based doses, after subtracting the applicable average background concentration (as measured at the corresponding control location). Regulatory Guide 1.109 consumption rates for the maximum exposed individual were used in the calculations. A dose factor of zero was assumed when the guide listed "NO DATA" as the dose factor for a given radionuclide and organ.

Maximum dose estimates calculated using drinking water, fish, shoreline sediment, and broadleaf vegetation results are reported in Table 4.1-A. The individual critical population and pathway dose calculations are contained in Table 4.1-B.

No radionuclides were detected in milk, airborne radioiodine or airborne particulate samples. Naturally occurring K-40 and Be-7 were detected in some samples but were not included in any REMP-based dose estimates. Dose estimates were not calculated for surface water samples because surface water is not considered a potable drinking water source although surface water tritium concentrations are used in calculating doses from fish. REMP TLD exposure results are discussed in Section 3.8.

The maximum environmental organ dose estimate for any single sample type (excluding TLD results) collected during 2013 was 2.19E-1 mrem to the child bone from consuming broadleaf vegetation.

4.2 ESTIMATED DOSE FROM RELEASES

Throughout the year, dose estimates were calculated based on actual 2013 liquid and gaseous effluent release data. Effluent-based dose estimates were calculated using the RETDAS computer program which employs methodology and data presented in NRC Regulatory Guide 1.109. These doses are shown in Table 4.1-A along with the corresponding REMP-based dose estimates. Summaries of RETDAS dose calculations are reported in the Annual Radioactive Effluent Release Report (reference 6.6).

The effluent-based liquid release doses are summations of the dose contributions of the drinking water, fish and shoreline pathways. For iodine, particulate, and tritium exposure the effluent-based gaseous release doses are summations of the dose contributors from ground/plane, milk, inhalation and vegetation pathways.

4.3 COMPARISON OF DOSES

The liquid environmental and release data doses given in Table 4.1-A agree reasonably well. The similarity of the doses indicate that the radioactivity levels in the environment do not differ significantly from those expected based on effluent measurements and modeling of the environmental exposure pathways.

There are some differences in how effluent and environmental doses are calculated that affect the comparison. Doses calculated from environmental data are conservative because they are based on a mean that includes only samples with a net positive activity versus a mean that includes all sample results (i.e. zero results are not included in the mean). Also, airborne tritium is not measured in environmental samples but is used to calculate effluent doses.

Additionally, in 2010 Oconee began reporting estimated dose from effluent Carbon 14 (C-14). This change came about with the issuing of Regulatory Guide 1.21, Revision 2, Measuring, Evaluating and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste. A description of this change is found in the 2010 Annual Radiological Effluent Release Report. C-14 is not measured in the environment and therefore, environmental and effluent doses from C-14 cannot be compared directly.

In calculations based on liquid release effluent pathways, fish and drinking water were the predominant dose pathways based on environmental and effluent samples. The maximum total organ dose based on 2013 environmental sample results was 5.64E-2 mrem to the child liver. The maximum total organ dose of 3.00E-1 mrem for liquid effluent-based estimates was to the adult GI-LLI.

In calculations based on gaseous release pathways, vegetation was the predominant dose pathway for effluent samples. The gaseous effluent dose is due to C-14 and tritium in broadleaf vegetation. The maximum total organ dose for gaseous effluent estimates was 3.36E-1 mrem to the child bone. Vegetation was the only gaseous release pathway media that contained detectable activity. The maximum total organ dose for gaseous environmental estimates was 2.19E-1 mrem to the child bone.

The doses calculated do not exceed 40CFR190 or 10CFR50 dose commitment limits for members of the public. Doses to members of the public attributable to the operation of ONS are being maintained well within regulatory limits.

TABLE 4.1-A

**OCONEE NUCLEAR STATION
2013 ENVIRONMENTAL AND EFFLUENT DOSE COMPARISON**

LIQUID RELEASE PATHWAY

Organ	Environmental or Effluent Data	Critical Age ⁽¹⁾	Critical Pathway ⁽²⁾	Location	Maximum Dose ⁽³⁾ (mrem)
Skin	Environmental	Teen	Shoreline Sediment	067 (4.34 mi SSE)	1.15E-04
Skin	Effluent	Teen	Shoreline Sediment	Discharge Pt.	2.50E-03
Bone	Environmental	Child	Fish	066 (18.9 mi SSE)	1.90E-02
Bone	Effluent	Child	Fish	Discharge Pt.	1.58E-02
Liver	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	5.64E-02
Liver	Effluent	Child	Drinking Water	Discharge Pt.	1.64E-01
T. Body	Environmental	Adult	Drinking Water	066 (18.9 mi SSE)	4.48E-02
T. Body	Effluent	Adult	Water	Discharge Pt.	1.54E-01
Thyroid	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	3.82E-02
Thyroid	Effluent	Child	Drinking Water	18.9 mi SSE	1.49E-01
Kidney	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	4.42E-02
Kidney	Effluent	Child	Drinking Water	18.9 mi SSE	1.54E-01
Lung	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	4.04E-02
Lung	Effluent	Child	Drinking Water	18.9 mi SSE	1.50E-01
GI-LLI	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	3.84E-02
GI-LLI	Effluent	Adult	Fish	Discharge Pt.	3.00E-01

(1) Critical Age is the highest total dose (all pathways) to an age group.

(2) Critical Pathway is the highest individual dose within the identified Critical Age group.

(3) Maximum dose is a summation of the fish, drinking water and shoreline sediment pathways.

GASEOUS RELEASE PATHWAY**IODINE, PARTICULATE, and TRITIUM**

Organ	Environmental or Effluent Data	Critical Age⁽¹⁾	Critical Pathway⁽²⁾	Location	Maximum Dose⁽³⁾ (mrem)
Skin	Environmental	-	-	-	0.00E+00
Skin	Effluent	All	Ground Plane	1.0 mi. SW	8.35E-11
Bone	Environmental	Child	Vegetation	084 (2.58 mi NNE)	2.19E-01
Bone	Effluent	Child	Vegetation	1.0 mi. SW	3.36E-01
Liver	Environmental	Child	Vegetation	084 (2.58 mi NNE)	2.09E-01
Liver	Effluent	Child	Vegetation	1.0 mi. SW	1.14E-01
T. Body	Environmental	Adult	Vegetation	084 (2.58 mi NNE)	1.17E-01
T. Body	Effluent	Child	Vegetation	1.0 mi. SW	1.14E-01
Thyroid	Environmental	-	-	-	0.00E+00
Thyroid	Effluent	Child	Vegetation	1.0 mi. SW	1.14E-01
Kidney	Environmental	Child	Vegetation	084 (2.58 mi NNE)	6.82E-02
Kidney	Effluent	Child	Vegetation	1.0 mi. SW	1.14E-01
Lung	Environmental	Child	Vegetation	084 (2.58 mi NNE)	2.45E-02
Lung	Effluent	Child	Vegetation	1.0 mi. SW	1.14E-01
GI-LLI	Environmental	Adult	Vegetation	084 (2.58 mi NNE)	3.47E-03
GI-LLI	Effluent	Child	Vegetation	1.0 mi. SW	1.14E-01

(1) Critical Age is the highest total dose (all pathways) to an age group.

(2) Critical Pathway is the highest individual dose within the identified Critical Age group.

(3) Maximum dose is a summation of the ground/plane, inhalation, milk and vegetation pathways.

TABLE 4.1-B

Maximum Individual Dose for 2013 based on Environmental Measurements (mrem) for Oconee Nuclear Station

Age	Sample Medium	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Skin
Infant	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	TOTAL	0.00E+00	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	0.00E+00
Child	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	3.36E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	2.19E-01	2.09E-01	3.09E-02	0.00E+00	6.82E-02	2.45E-02	1.31E-03	0.00E+00
	Fish	1.90E-02	2.28E-02	7.32E-03	4.64E-03	1.06E-02	6.77E-03	4.76E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
TOTAL	2.38E-01	2.65E-01	7.18E-02	3.82E-02	1.12E-01	6.49E-02	3.97E-02	2.40E-05	
Teen	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	1.76E-02	1.76E-02	1.76E-02	1.76E-02	1.76E-02	1.76E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	1.21E-01	1.61E-01	5.60E-02	0.00E+00	5.47E-02	2.13E-02	2.29E-03	0.00E+00
	Fish	1.51E-02	2.56E-02	1.26E-02	5.62E-03	1.24E-02	8.27E-03	5.91E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
TOTAL	1.36E-01	2.04E-01	8.63E-02	2.32E-02	8.47E-02	4.72E-02	2.58E-02	1.15E-04	
Adult	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	2.49E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	1.31E-01	1.79E-01	1.17E-01	0.00E+00	6.09E-02	2.02E-02	3.47E-03	0.00E+00
	Fish	1.41E-02	2.65E-02	1.99E-02	7.31E-03	1.38E-02	9.48E-03	7.68E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
TOTAL	1.45E-01	2.30E-01	1.62E-01	3.22E-02	9.96E-02	5.46E-02	3.61E-02	2.06E-05	

Note: Dose tables are provided for sample media displaying positive nuclide occurrence.

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2013 Data
Maximum Exposed Infant

Infant Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 330 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.99E-05	4.51E-06	NO DATA	4.41E-06	NO DATA	7.31E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	3.60E-06	8.98E-06	NO DATA	NO DATA	NO DATA	8.97E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	3.08E-05	5.38E-05	2.12E-05	NO DATA	NO DATA	1.59E-05	2.57E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	1.08E-05	2.55E-05	NO DATA	NO DATA	NO DATA	2.57E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.84E-05	6.31E-05	2.91E-05	NO DATA	3.06E-05	NO DATA	5.33E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	4.20E-08	1.73E-08	1.00E-08	NO DATA	1.24E-08	NO DATA	1.46E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.06E-07	5.02E-08	3.56E-08	NO DATA	5.41E-08	NO DATA	2.50E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	3.59E-05	4.23E-05	1.86E-05	1.39E-02	4.94E-05	NO DATA	1.51E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.77E-04	7.03E-04	7.10E-05	NO DATA	1.81E-04	7.42E-05	1.91E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	5.22E-04	6.11E-04	4.33E-05	NO DATA	1.64E-04	6.64E-05	1.91E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	1.71E-04	1.71E-07	8.81E-06	NO DATA	4.06E-08	1.05E-07	4.20E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	066	325	0.00E+00	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02
Dose Commitment (mrem) =										0.00E+00	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02

*Oconee Nuclear Station
Dose from Drinking Water Pathway for 2013 Data
Maximum Exposed Child*

Child Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 510 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.07E-05	2.85E-06	NO DATA	3.00E-06	NO DATA	8.98E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	1.80E-06	5.51E-06	NO DATA	NO DATA	NO DATA	1.05E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	1.65E-05	2.67E-05	1.33E-05	NO DATA	NO DATA	7.74E-06	2.78E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C0-60	NO DATA	5.29E-06	1.56E-05	NO DATA	NO DATA	NO DATA	2.93E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.37E-05	3.65E-05	2.27E-05	NO DATA	2.30E-05	NO DATA	6.41E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	2.25E-08	8.76E-09	6.26E-09	NO DATA	8.23E-09	NO DATA	1.62E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.16E-07	2.55E-08	2.27E-08	NO DATA	3.65E-08	NO DATA	2.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	NO DATA	1.54E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	8.31E-05	7.28E-08	4.85E-06	NO DATA	2.37E-08	4.34E-08	4.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	066	325	0.00E+00	3.36E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02
Dose Commitment (mrem) =										0.00E+00	3.36E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02

Oconee Nuclear Station
Dose from Broadleaf Vegetation Pathway for 2013 Data
Maximum Exposed Child

Child Dose from Vegetation Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

Usage (intake in one year) = 26 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Food (pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
I-131	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	NO DATA	1.54E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	084	25.7	2.19E-01	2.09E-01	3.09E-02	0.00E+00	6.82E-02	2.45E-02	1.31E-03
Dose Commitment (mrem) =										2.19E-01	2.09E-01	3.09E-02	0.00E+00	6.82E-02	2.45E-02	1.31E-03

*Oconee Nuclear Station
Dose from Fish Pathway for 2013 Data
Maximum Exposed Child*

Child Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 3683 pCi/l x 0.9 = 3315 pCi/kg

Usage (intake in one year) = 6.9 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Fish (pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.07E-05	2.85E-06	NO DATA	3.00E-06	NO DATA	8.98E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	1.80E-06	5.51E-06	NO DATA	NO DATA	NO DATA	1.05E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	1.65E-05	2.67E-05	1.33E-05	NO DATA	NO DATA	7.74E-06	2.78E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	5.29E-06	1.56E-05	NO DATA	NO DATA	NO DATA	2.93E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.37E-05	3.65E-05	2.27E-05	NO DATA	2.30E-05	NO DATA	6.41E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	063	8.40	1.90E-02	1.81E-02	2.68E-03	0.00E+00	5.91E-03	2.13E-03	1.14E-04
H-3	NO DATA	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	063	3315	0.00E+00	4.64E-03	4.64E-03	4.64E-03	4.64E-03	4.64E-03	4.64E-03
Dose Commitment (mrem) =										1.90E-02	2.28E-02	7.32E-03	4.64E-03	1.06E-02	6.77E-03	4.76E-03

Oconee Nuclear Station
Dose from Shoreline Sediment Pathway for 2013 Data
Maximum Exposed Child

Shoreline Recreation = 14 hr (in one year)
 Shore Width Factor = 0.2
 Sediment Surface Mass = 40 kg/m²

Child Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External Dose Factor (mrem/hr per pCi/m²) x Shore Width Factor x Sediment Surface Mass (kg/m²) x Sediment Concentration (pCi/kg)

Radionuclide	External Dose Factor Standing <u>on Contaminated Ground</u>		Indicator Location	Highest Annual Net <u>Mean Concentration</u> Sediment (pCi/kg)	<u>Dose</u>	
	(mrem/hr per pCi/m ²)				(mrem)	
	T. Body	Skin			T. Body	Skin
Cs-134	1.20E-08	1.40E-08	ALL	0.00	0.00E+00	0.00E+00
Cs-137	4.20E-09	4.90E-09	067	43.7	2.06E-05	2.40E-05
					Dose Commitment (mrem) =	2.06E-05 2.40E-05

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2013 Data
Maximum Exposed Teen

Teen Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 510 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	5.90E-06	1.17E-06	NO DATA	1.76E-06	NO DATA	1.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	9.72E-07	2.24E-06	NO DATA	NO DATA	NO DATA	1.34E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	5.87E-06	1.37E-05	5.29E-06	NO DATA	NO DATA	4.32E-06	3.24E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.81E-06	6.33E-06	NO DATA	NO DATA	NO DATA	3.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.76E-06	2.00E-05	9.33E-06	NO DATA	1.28E-05	NO DATA	8.47E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	8.22E-09	4.56E-09	2.51E-09	NO DATA	4.42E-09	NO DATA	1.95E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	4.12E-08	1.30E-08	8.94E-09	NO DATA	1.91E-08	NO DATA	3.00E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	5.85E-06	8.19E-06	4.40E-06	2.39E-03	1.41E-05	NO DATA	1.62E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	2.84E-05	3.48E-08	1.83E-06	NO DATA	1.18E-08	2.34E-08	4.38E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	066	325	0.00E+00	1.76E-02	1.76E-02	1.76E-02	1.76E-02	1.76E-02	1.76E-02
Dose Commitment (mrem)=										0.00E+00	1.76E-02	1.76E-02	1.76E-02	1.76E-02	1.76E-02	1.76E-02

Oconee Nuclear Station
Dose from Broadleaf Vegetation Pathway for 2013 Data
Maximum Exposed Teen

Teen Dose from Vegetation Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

Usage (intake in one year) = 42 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Food (pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
I-131	5.85E-06	8.19E-06	4.40E-06	2.39E-03	1.41E-05	NO DATA	1.62E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	084	25.70	1.21E-01	1.61E-01	5.60E-02	0.00E+00	5.47E-02	2.13E-02	2.29E-03
Dose Commitment (mrem) =										1.21E-01	1.61E-01	5.60E-02	0.00E+00	5.47E-02	2.13E-02	2.29E-03

*Oconee Nuclear Station
Dose from Fish Pathway for 2013 Data
Maximum Exposed Teen*

Teen Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 3683 pCi/l x 0.9 = 3315 pCi/kg

Usage (intake in one year) = 16 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Location	(pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	5.90E-06	1.17E-06	NO DATA	1.76E-06	NO DATA	1.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	9.72E-07	2.24E-06	NO DATA	NO DATA	NO DATA	1.34E-05	ALL	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	5.87E-06	1.37E-05	5.29E-06	NO DATA	NO DATA	4.32E-06	3.24E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.81E-06	6.33E-06	NO DATA	NO DATA	NO DATA	3.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.76E-06	2.00E-05	9.33E-06	NO DATA	1.28E-05	NO DATA	8.47E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	063	8.40	1.51E-02	2.00E-02	6.98E-03	0.00E+00	6.81E-03	2.65E-03	2.85E-04
H-3	NO DATA	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	063	3315	0.00E+00	5.62E-03	5.62E-03	5.62E-03	5.62E-03	5.62E-03	5.62E-03
Dose Commitment (mrem) =										1.51E-02	2.56E-02	1.26E-02	5.62E-03	1.24E-02	8.27E-03	5.91E-03

Oconee Nuclear Station
Dose from Shoreline Sediment Pathway for 2013 Data
Maximum Exposed Teen

Shoreline Recreation = 67 hr (in one year)
 Shore Width Factor = 0.2
 Sediment Surface Mass = 40 kg/m²

Teen Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External Dose Factor (mrem/hr per pCi/m²) x Shore Width Factor x Sediment Surface Mass (kg/m²) x Sediment Concentration (pCi/kg)

Radionuclide	External Dose Factor Standing on Contaminated Ground (mrem/hr per pCi/m ²)		Indicator Location	Sediment Concentration (pCi/kg)	Highest Annual Net Mean Concentration Dose (mrem)	
	T. Body	Skin			T. Body	Skin
Cs-134	1.20E-08	1.40E-08	ALL	0.00	0.00E+00	0.00E+00
Cs-137	4.20E-09	4.90E-09	067	43.7	9.84E-05	1.15E-04
Dose Commitment (mrem) =					9.84E-05	1.15E-04

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2013 Data
Maximum Exposed Adult

Adult Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 730 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator	Water	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
								Location	(pCi/l)							
Mn-54	NO DATA	4.57E-06	8.72E-07	NO DATA	1.36E-06	NO DATA	1.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	7.45E-07	1.67E-06	NO DATA	NO DATA	NO DATA	1.51E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	4.34E-06	1.02E-05	3.91E-06	NO DATA	NO DATA	2.85E-06	3.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.14E-06	4.72E-06	NO DATA	NO DATA	NO DATA	4.02E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-06	1.54E-05	6.96E-06	NO DATA	1.03E-05	NO DATA	9.70E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	6.22E-09	3.46E-09	1.86E-09	NO DATA	3.42E-09	NO DATA	2.10E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.04E-08	9.75E-09	6.60E-09	NO DATA	1.53E-08	NO DATA	3.09E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	NO DATA	1.57E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	2.03E-05	2.55E-08	1.33E-06	NO DATA	8.67E-09	1.46E-08	4.18E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	066	325	0.00E+00	2.49E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02
Dose Commitment (mrem) =										0.00E+00	2.49E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02

Oconee Nuclear Station
Dose from Broadleaf Vegetation Pathway for 2013 Data
Maximum Exposed Adult

Adult Dose from Vegetation (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

Usage (intake in one year) = 64 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Food (pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
I-131	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	NO DATA	1.57E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	084	25.7	1.31E-01	1.79E-01	1.17E-01	0.00E+00	6.09E-02	2.02E-02	3.47E-03
Dose Commitment (mrem) =										1.31E-01	1.79E-01	1.17E-01	0.00E+00	6.09E-02	2.02E-02	3.47E-03

Oconee Nuclear Station
Dose from Fish Pathway for 2013 Data
Maximum Exposed Adult

Adult Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 3683 pCi/l x 0.9 = 3315 pCi/kg

Usage (intake in one year) = 21 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Location	(pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	4.57E-06	8.72E-07	NO DATA	1.36E-06	NO DATA	1.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	7.45E-07	1.67E-06	NO DATA	NO DATA	NO DATA	1.51E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	4.34E-06	1.02E-05	3.91E-06	NO DATA	NO DATA	2.85E-06	3.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.14E-06	4.72E-06	NO DATA	NO DATA	NO DATA	4.02E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-06	1.54E-05	6.96E-06	NO DATA	1.03E-05	NO DATA	9.70E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	063	8.40	1.41E-02	1.92E-02	1.26E-02	0.00E+00	6.53E-03	2.17E-03	3.72E-04
H-3	NO DATA	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	063	3315	0.00E+00	7.31E-03	7.31E-03	7.31E-03	7.31E-03	7.31E-03	7.31E-03
Dose Commitment (mrem) =										1.41E-02	2.65E-02	1.99E-02	7.31E-03	1.38E-02	9.48E-03	7.68E-03

Oconee Nuclear Station
Dose from Shoreline Sediment Pathway for 2013 Data
Maximum Exposed Adult

Shoreline Recreation = 12 hr (in one year)
 Shore Width Factor = 0.2
 Sediment Surface Mass = 40 kg/m²

Adult Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External Dose Factor (mrem/hr per pCi/m²) x Shore Width Factor x Sediment Surface Mass (kg/m²) x Sediment Concentration (pCi/kg)

Radionuclide	External Dose Factor Standing <u>on Contaminated Ground</u> (mrem/hr per pCi/m ²)		Highest Annual Net <u>Mean Concentration</u> Indicator Sediment Location (pCi/kg)		<u>Dose</u> (mrem)	
	T. Body	Skin			T. Body	Skin
Cs-134	1.20E-08	1.40E-08	ALL	0.00	0.00E+00	0.00E+00
Cs-137	4.20E-09	4.90E-09	067	43.7	1.76E-05	2.06E-05
Dose Commitment (mrem) =					1.76E-05	2.06E-05

5.0 QUALITY ASSURANCE

5.1 SAMPLE COLLECTION

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

5.2 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.

5.3 DOSIMETRY ANALYSIS

The Radiation Dosimetry and Records group performed environmental dosimetry measurements as specified by approved dosimetry analysis procedures.

5.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

5.4.1 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.

5.4.2 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.

5.4.3 BATCH PROCESSING

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

5.5 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 5.0-A.

5.6 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 5.0-B.

5.7 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 5.0-C.

5.8 DUKE ENERGY AUDITS

The Oconee Nuclear Station Radiological Environmental Monitoring Program was not audited by the Quality Assurance Group in 2013 but was audited in 2012 (reference 6.13). No environmental monitoring issues were identified.

5.9 U.S. NUCLEAR REGULATORY COMMISSION INSPECTIONS

The Oconee Nuclear Station Radiological Environmental Monitoring Program was not audited by the NRC in 2013 but was audited in 2012 (reference 6.12). No findings were noted in the 2012 report.

5.10 STATE OF SOUTH CAROLINA INTERCOMPARISON PROGRAM

Oconee Nuclear Station routinely participates with the Bureau of Radiological Health of the State's Department of Health and Environmental Control (DHEC) in an intercomparison program. The Memorandum of Agreement (MOA) between SC DHEC and Duke Energy describes the sampling frequency and analysis parameters for drinking water, surface water, milk, fish, vegetation, and shoreline sediment samples collected by EnRad Laboratories. Samples are routinely split with DHEC for intercomparison analysis. DHEC collects air samples near two of the locations sampled for air by ONS. Results of the analyses performed on split and duplicate samples are sent to DHEC. This program was discontinued late in the year at the request of SC DHEC (Reference 6.14) and was replaced by a similar program with a vendor laboratory.

5.11 TLD INTERCOMPARISON PROGRAM

5.11.1 NUCLEAR TECHNOLOGY SERVICES INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA. Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to the Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. A summary of the Nuclear Technology Services Intercomparison Report is documented in Table 5.0-D.

5.11.2 INTERNAL CROSSCHECK (DUKE ENERGY)

Radiation Dosimetry and Records participates in a quarterly TLD intracomparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly and submits them for analysis of the unknown estimated delivered exposure. A summary of the Internal Cross Check (Duke Energy) Result is documented in Table 5.0-D.

TABLE 5.0-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 5.0-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 5.0-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 5.0-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. 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

TABLE 5.0-D

2013 ENVIRONMENTAL DOSIMETER CROSS-CHECK RESULTS

Nuclear Technology Services

1st Quarter 2013						2nd Quarter 2013					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
102432	83.6	79.19	5.61	<+/-15%	Pass	102104	91.10	90.22	0.98	<+/-15%	Pass
102452	83.0	79.19	4.84	<+/-15%	Pass	102359	91.20	90.22	1.09	<+/-15%	Pass
102453	83.8	79.19	5.77	<+/-15%	Pass	102099	92.44	90.22	2.46	<+/-15%	Pass
102455	82.6	79.19	4.34	<+/-15%	Pass	102294	93.25	90.22	3.36	<+/-15%	Pass
102473	85.2	79.19	7.59	<+/-15%	Pass	102420	93.88	90.22	4.06	<+/-15%	Pass
Average Bias (B)			5.63			Average Bias (B)			2.39		
Standard Deviation (S)			1.24			Standard Deviation (S)			1.36		
Measure Performance B +S			6.87	<15%	Pass	Measure Performance B +S			3.75	<15%	Pass
3rd Quarter 2013						4th Quarter 2013					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
103363	82.62	79.0	4.53	<+/-15%	Pass	103138	90.70	89.2	1.68	<+/-15%	Pass
103661	86.78	79.0	9.79	<+/-15%	Pass	103139	91.28	89.2	2.33	<+/-15%	Pass
103414	83.02	79.0	5.04	<+/-15%	Pass	103140	92.38	89.2	3.57	<+/-15%	Pass
103154	87.35	79.0	10.51	<+/-15%	Pass	103747	90.97	89.2	1.98	<+/-15%	Pass
103145	85.45	79.0	8.11	<+/-15%	Pass	103676	90.97	89.2	1.98	<+/-15%	Pass
Average Bias (B)			7.60			Average Bias (B)			2.31		
Standard Deviation (S)			2.72			Standard Deviation (S)			0.74		
Measure Performance B +S			10.31	<15%	Pass	Measure Performance B +S			3.05	<15%	Pass

TABLE 5.0-D (Cont.)

Internal Crosscheck (Duke Energy)

1st Quarter 2013						2nd Quarter 2013					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103725	36.4	35.0	3.89	<+/-15%	Pass	103279	27.6	28.0	-1.54	<+/-15%	Pass
103726	37.6	35.0	7.43	<+/-15%	Pass	102457	27.8	28.0	-0.61	<+/-15%	Pass
103259	35.8	35.0	2.26	<+/-15%	Pass	102497	27.4	28.0	-2.29	<+/-15%	Pass
103761	34.5	35.0	-1.51	<+/-15%	Pass	102005	27.7	28.0	-1.04	<+/-15%	Pass
102729	36.8	35.0	5.00	<+/-15%	Pass	102492	27.1	28.0	-3.29	<+/-15%	Pass
102728	34.8	35.0	-0.46	<+/-15%	Pass	102102	27.4	28.0	-2.11	<+/-15%	Pass
103258	33.4	35.0	-4.54	<+/-15%	Pass	102345	27.0	28.0	-3.43	<+/-15%	Pass
102727	37.1	35.0	6.09	<+/-15%	Pass	101378	27.3	28.0	-2.61	<+/-15%	Pass
103724	34.9	35.0	-0.37	<+/-15%	Pass	102400	28.5	28.0	1.79	<+/-15%	Pass
102726	35.7	35.0	1.94	<+/-15%	Pass	103257	28.6	28.0	2.21	<+/-15%	Pass
Average Bias (B)			1.97			Average Bias (B)			-1.29		
Standard Deviation (S)			3.74			Standard Deviation (S)			1.95		
Measure Performance B +S			5.71	<15%	Pass	Measure Performance B +S			3.24	<15%	Pass
3rd Quarter 2013						4th Quarter 2013					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103370	32.0	31.0	3.35	<+/-15%	Pass	103581	57.2	51.0	12.14	<+/-15%	Pass
103610	32.0	31.0	3.10	<+/-15%	Pass	102905	56.8	51.0	11.37	<+/-15%	Pass
103597	32.4	31.0	4.35	<+/-15%	Pass	103134	56.0	51.0	9.88	<+/-15%	Pass
103553	31.6	31.0	1.87	<+/-15%	Pass	120802	56.9	51.0	11.59	<+/-15%	Pass
103369	32.5	31.0	4.90	<+/-15%	Pass	103118	57.3	51.0	12.25	<+/-15%	Pass
103750	32.2	31.0	3.87	<+/-15%	Pass	120703	55.7	51.0	9.12	<+/-15%	Pass
103578	33.3	31.0	7.35	<+/-15%	Pass	102521	56.1	51.0	9.92	<+/-15%	Pass
103136	32.4	31.0	4.55	<+/-15%	Pass	103582	55.5	51.0	8.90	<+/-15%	Pass
103368	32.6	31.0	5.13	<+/-15%	Pass	102826	57.9	51.0	13.61	<+/-15%	Pass
103552	32.5	31.0	4.74	<+/-15%	Pass	102702	56.1	51.0	10.06	<+/-15%	Pass
Average Bias (B)			4.32			Average Bias (B)			10.88		
Standard Deviation (S)			1.46			Standard Deviation (S)			1.54		
Measure Performance B +S			5.78	<15%	Pass	Measure Performance B +S			12.42	<15%	Pass

6.0 REFERENCES

- 6.1 Oconee Selected License Commitment Manual
- 6.2 Oconee Technical Specifications
- 6.3 Oconee Updated Final Safety Analysis Report
- 6.4 Oconee Offsite Dose Calculation Manual
- 6.5 Oconee Annual Radiological Environmental Operating Report 1969-2012
- 6.6 Oconee Annual Radioactive Effluent Release Report 2013
- 6.7 Probability and Statistics in Engineering and Management Science, Hines and Montgomery, 1969, pages 287-293.
- 6.8 Practical Statistics for the Physical Sciences, Havilcek and Crain, 1988, pages 83-93.
- 6.9 Nuclear Regulatory Commission Regulatory Guide 1.109, Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purposes of Evaluating Compliance with 10CFR50, Appendix I.
- 6.10 EnRad Laboratories Operating Procedures
- 6.11 RETDAS, Radiological Effluent Tracking and Dose Assessment Software, Canberra Version 3.5.1, DPC Revision #4.0
- 6.12 NRC Integrated Inspection Report 05000269/2012004, 05000270/2012004, 05000287/2012004
- 6.13 Radiological Effluent Controls Audit 12-19 (NOS)(REC)(ONS)
- 6.14 Problem Investigation Program Database, V 3.4.3, Duke Energy Company, G-13-02184
- 6.15 NCRP (2009). National Council on Radiation Protection and Measurements. *Ionizing Radiation Exposure of the Population of the United States*, NCRP Report No. 160 (National Council on Radiation Protection and Measurements, Bethesda, Maryland).

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 Oconee Nuclear Station is required to ensure compliance with Station Selected Licensee Commitments. Analytical procedures were employed to ensure that Selected Licensee Commitments detection capabilities were achieved.

Environmental sampling and analyses were performed by EnRad Laboratories, Dosimetry and Records, and 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

No changes were made to the sampling procedures during 2013.

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 and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) then transferred to 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). The resin is then dried, mixed thoroughly, and a net resin weight determined before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed quarterly 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 laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable.

Gross beta analysis is performed by concentrating a designated aliquot of sample precipitate and analyzing 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

Quarterly gamma spectroscopy analysis of airborne particulate filter composite (by location) was implemented during 2013; elective weekly gamma spectroscopy of the airborne particulate individual filter was discontinued.

IV. SAMPLING AND ANALYSIS PROCEDURES

A.1 AIRBORNE PARTICULATE AND RADIOIODINE

Airborne particulate and radioiodine samples at each of six 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. A quarterly gamma analysis was performed on the quarterly filter composite (by location). The continuous composite samples were collected from the locations listed below.

Location 077	=	Skimmer Wall (1.00 mi. SW)
Location 078.1	=	Recreation Site (0.53 mi. WSW)
Location 079	=	Keowee Dam (0.56 mi. NE)
Location 081	=	Clemson Operations Center (9.33 mi. SE)
Location 084	=	Sue Craig Road (2.58 mi. NNE)
Location 085	=	Lake Services / Building B9125 (0.88 mi. NNW)

A.2 DRINKING WATER

Monthly composite samplers were operated to collect an aliquot at least every two hours. Gross beta and gamma analysis was performed on the monthly composites. Tritium analysis was performed on the quarterly composites. The composites were collected monthly from the locations listed below.

Location 060	=	Greenville Water Intake Rd. (3.23 mi. NE)
Location 064	=	Seneca (6.67 mi. SSW)
Location 066	=	Anderson (18.9 mi SSE)

A.3 SURFACE WATER

Monthly composite samplers were operated to collect an aliquot at least every two hours. Gamma analysis was performed on the monthly composites. Tritium

analysis was performed on the quarterly composites sample. The composites were collected monthly from the locations listed below.

Location 062 = Lake Keowee Hydro Intake (0.85 mi. ENE)
Location 063.1 = Lake Hartwell Hwy 183 Bridge (0.79 mi. E)

A.4 MILK

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

Location 071 = Clemson Dairy (10.2 mi. SSE)

A.5 BROADLEAF VEGETATION

Monthly samples were collected and a gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 077 = Skimmer Wall (1.00 mi. SW)
Location 079 = Keowee Dam (0.56 mi. NE)
Location 081 = Clemson Operations Center (9.33 mi. SE)
Location 084 = Sue Craig Road (2.58 mi. NNE)

A.6 FISH

Semiannual samples were collected and a gamma analysis was performed on the edible portions of each sample. The samples were collected from the locations listed below.

Location 060 = Greenville Water Intake Rd. (2.28 mi. NE)
Location 063 = Lake Hartwell Hwy 183 Bridge (0.80 mi. ESE)
Location 067 = Lawrence Ramsey Bridge Hwy 27 (4.34 mi. SSE)

A.7 SHORELINE SEDIMENT

Semiannual samples were collected and 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 063 = Lake Hartwell Hwy 183 Bridge (0.80 mi. ESE)
Location 067 = Lawrence Ramsey Bridge Hwy 27 (4.34 mi. SSE)
Location 068 = High Falls County Park (1.82 mi. W)

A.8 DIRECT GAMMA RADIATION (TLD)

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-two locations. A gamma exposure rate was determined for each TLD. The TLDs were placed as indicated below.

- * An inner ring of 17 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 control locations.

TLD Locations are listed in Table 2.1-B.

A.9 ANNUAL LAND USE CENSUS

An annual Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the station, the following locations in each of the sixteen meteorological sectors:

- * The Nearest Residence
- * The Nearest Milk-giving Animal (cow, goat, etc.) where milk is used for human consumption

The census was conducted during the growing season 5/20/2013. Results are shown in Table 3.9. No changes were made to the sampling procedures during 2013 as a result of the 2013 census.

V. GLOBAL POSITIONING SYSTEM (GPS) ANALYSIS

The Oconee site centerline used for GPS measurements was referenced from the Oconee Nuclear Station Updated Final Safety Analysis Report (UFSAR), section 2.1.1.1, Specification of Location. Waypoint coordinates used for ONS GPS measurements were latitude 34°-47'-38.2"N and longitude 82°-53'-55.4"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2013

**OCONEE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Oconee Nuclear Station
Oconee County, South Carolina

Docket Numbers 50-269, 270, 287
Calendar Year 2013

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ⁽²⁾⁽³⁾ Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ⁽²⁾⁽³⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ⁽²⁾⁽³⁾		
Air Particulate (pCi/m ³)	Gross Beta 312 ⁽⁴⁾	See Table 2.2-C	1.79E-2 (260/260) 4.90E-3 – 3.77E-2	077 (1.00 SW)	1.96E-2 (52/52) 7.09E-3 – 3.63E-2	081 (9.33 mi SE) 1.74E-2 (52/52) 5.52E-3 – 3.26E-2	0
	Gamma 24	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 312 ⁽⁴⁾	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
Drinking Water (pCi/l)	Gross Beta 39	4	1.33 (22/26) 0.66 – 2.25	066 (18.9 mi SSE)	1.57 (12/13) 0.74 – 2.25	064 (6.67 mi SSW) 1.11 (8/13) 0.61 – 1.81	0
	Gamma 39	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium 12	2000	325 (3/8) 162 - 417	066 (18.9 mi SSE)	325 (3/4) 162 - 417	All less than LLD	0
Surface Water (pCi/l)	Gamma 26 ⁽⁴⁾	See Table 2.2-C	All less than LLD	----	----	All less than LLD	0
	Tritium 8	2000	3683 (4/4) 1290 - 7890	063.1 (0.79 mi E)	3683 (4/4) 1290 - 7890	All less than LLD	0
Milk (pCi/l)	Gamma 26	See Table 2.2-C	No Indicator Location	----	----	All less than LLD	0
	I-131 26	See Table 2.2-C	No Indicator Location	----	----	All less than LLD	0

**OCONEE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Oconee Nuclear Station
Oconee County, South Carolina

Docket Numbers 50-269, 270, 287
Calendar Year 2013

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Broadleaf Vegetation (pCi/kg, wet)	Gamma 48	80	25.7 (1/36)	084 (2.58 NNE)	25.7 (1/12)	All less than LLD	0
	Cs-137		25.7 - 25.7		25.7 - 25.7		
Fish (pCi/kg, wet)	Gamma 13	150	23.4 (8/9)	063 (0.80 mi ESE)	24.4 (4/5)	060 (2.28 mi NE)	0
	Cs-137		18.2 - 36.7		18.6 - 36.7	16.0 (3/4) 12.0 - 20.4	
Sediments--Shoreline (pCi/kg, dry)	Gamma 6	180	43.7 (1/4)	067 (4.34 mi SSE)	43.7 (1/2)	All less than LLD	0
	Cs-137		43.7 - 43.7		43.7 - 43.7		
TLD (mR per quarter) ⁽⁵⁾	TLD Readout 167 ⁽⁴⁾	-----	21.7 (159/159)	040 (4.74 mi E)	27.6 (3/3)	058 (9.39 mi WSW)	0
			14.0 - 29.7		26.0 - 29.7	081 (9.33 mi SE) 27.5 (8/8) 21.0 - 35.3	

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. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

APPENDIX C

OCONEE NUCLEAR STATION SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing Repair
IW	Inclement Weather	SL	Sample Loss/Lost due to Lab Accident
LC	Line Clog to Sampler	SM	Motor / Rotor Seized
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism
PM	Preventive Maintenance	CN	Construction

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodines

Location	Scheduled Collection Dates	Actual Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
084	7/22 – 7/29/2013	7/22 – 7/29/2013	PI	Power to sampling equipment interrupted for about 7.18 hours due to undetermined reason. Power was restored and no work request was necessary as a result of this event.	G-13-01299

Surface Water

Location	Scheduled Collection Dates	Actual Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
063.1	2/4 – 3/4/2013	3/4 – 3/4/2013	PO	Insufficient sample volume at time of collection due to tripped breaker interrupting power to sampling equipment. A grab sample was taken. Power was restored and normal sampling resumed. A work request was not necessary as a result of this event.	G-13-01284

C.2 UNAVAILABLE ANALYSES

TLD

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
040	6/18 – 9/17/2013	VN	TLD missing. 4 th quarter TLD placed.	G-13-01860

APPENDIX D

ANALYTICAL DEVIATIONS

No Analytical deviations were incurred for the
2013 Radiological Environmental Monitoring Program

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.

OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250439	12/31/2012 - 1/7/2013	Beta	2.50E-02	1.59E-03	3.28E-03
250569	1/7/2013 - 1/14/2013	Beta	2.36E-02	1.60E-03	3.41E-03
250738	1/14/2013 - 1/21/2013	Beta	1.29E-02	1.31E-03	3.26E-03
250986	1/21/2013 - 1/28/2013	Beta	2.86E-02	1.72E-03	3.55E-03
251272	1/28/2013 - 2/4/2013	Beta	2.00E-02	1.56E-03	3.66E-03
251602	2/4/2013 - 2/11/2013	Beta	1.79E-02	1.47E-03	3.37E-03
252068	2/11/2013 - 2/18/2013	Beta	1.93E-02	1.47E-03	3.26E-03
252685	2/18/2013 - 2/25/2013	Beta	1.78E-02	1.36E-03	2.89E-03
253071	2/25/2013 - 3/4/2013	Beta	1.23E-02	1.24E-03	3.00E-03
253879	3/4/2013 - 3/11/2013	Beta	1.32E-02	1.38E-03	3.46E-03
254201	3/11/2013 - 3/18/2013	Beta	2.21E-02	1.57E-03	3.44E-03
254736	3/18/2013 - 3/25/2013	Beta	1.73E-02	1.37E-03	2.98E-03
255296	3/25/2013 - 4/1/2013	Beta	1.55E-02	1.37E-03	3.21E-03
256425	12/31/2012 - 4/1/2013	I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<3.89E-04	0.00E+00	3.89E-04
		Cs-137	<4.21E-04	0.00E+00	4.21E-04
		Be-7	1.51E-01	6.89E-03	5.09E-03
		K-40	7.74E-03	1.92E-03	4.58E-03
255825	4/1/2013 - 4/8/2013	Beta	2.01E-02	1.49E-03	3.22E-03
256059	4/8/2013 - 4/15/2013	Beta	1.75E-02	1.47E-03	3.49E-03
256327	4/15/2013 - 4/22/2013	Beta	1.50E-02	1.36E-03	3.20E-03
256594	4/22/2013 - 4/29/2013	Beta	1.61E-02	1.46E-03	3.60E-03
257117	4/29/2013 - 5/6/2013	Beta	7.09E-03	1.15E-03	3.20E-03
257270	5/6/2013 - 5/13/2013	Beta	1.35E-02	1.35E-03	3.36E-03
257717	5/13/2013 - 5/20/2013	Beta	2.34E-02	1.60E-03	3.47E-03
257961	5/20/2013 - 5/28/2013	Beta	1.76E-02	1.31E-03	2.88E-03
258196	5/28/2013 - 6/3/2013	Beta	1.57E-02	1.63E-03	4.11E-03
258543	6/3/2013 - 6/10/2013	Beta	1.40E-02	1.36E-03	3.30E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
259013	6/10/2013 - 6/17/2013	Beta	1.71E-02	1.43E-03	3.32E-03
259561	6/17/2013 - 6/24/2013	Beta	1.85E-02	1.43E-03	3.24E-03
260195	6/24/2013 - 7/1/2013	Beta	1.63E-02	1.50E-03	3.68E-03
262473	4/1/2013 - 7/1/2013	I-131	<2.90E-02	0.00E+00	2.90E-02
		Cs-134	<3.69E-04	0.00E+00	3.69E-04
		Cs-137	<3.52E-04	0.00E+00	3.52E-04
		Be-7	1.54E-01	6.87E-03	6.76E-03
		K-40	1.36E-02	2.63E-03	2.80E-03
260655	7/1/2013 - 7/8/2013	Beta	7.65E-03	1.13E-03	3.03E-03
261618	7/8/2013 - 7/15/2013	Beta	8.82E-03	1.30E-03	3.66E-03
262120	7/15/2013 - 7/22/2013	Beta	1.53E-02	1.31E-03	2.98E-03
263108	7/22/2013 - 7/29/2013	Beta	1.93E-02	1.49E-03	3.34E-03
263363	7/29/2013 - 8/5/2013	Beta	2.83E-02	1.68E-03	3.32E-03
264021	8/5/2013 - 8/12/2013	Beta	2.05E-02	1.45E-03	3.00E-03
265152	8/12/2013 - 8/19/2013	Beta	1.15E-02	1.35E-03	3.60E-03
265461	8/19/2013 - 8/26/2013	Beta	1.33E-02	1.33E-03	3.25E-03
267147	8/26/2013 - 9/3/2013	Beta	2.99E-02	1.57E-03	2.94E-03
267597	9/3/2013 - 9/9/2013	Beta	3.27E-02	1.94E-03	3.83E-03
268452	9/9/2013 - 9/16/2013	Beta	3.63E-02	1.77E-03	3.04E-03
269575	9/16/2013 - 9/23/2013	Beta	2.44E-02	1.58E-03	3.26E-03
270718	9/23/2013 - 9/30/2013	Beta	2.47E-02	1.61E-03	3.32E-03
272567	7/1/2013 - 9/30/2013	I-131	<5.64E-02	0.00E+00	5.64E-02
		Cs-134	<5.54E-04	0.00E+00	5.54E-04
		Cs-137	<5.34E-04	0.00E+00	5.34E-04
		Be-7	1.15E-01	7.69E-03	1.03E-02
		K-40	1.96E-02	2.78E-03	5.26E-03
271443	9/30/2013 - 10/7/2013	Beta	3.05E-02	1.66E-03	3.00E-03
272050	10/7/2013 - 10/14/2013	Beta	1.69E-02	1.42E-03	3.30E-03
272433	10/14/2013 - 10/21/2013	Beta	1.96E-02	1.53E-03	3.52E-03
272834	10/21/2013 - 10/28/2013	Beta	3.01E-02	1.72E-03	3.36E-03
273926	10/28/2013 - 11/4/2013	Beta	3.03E-02	1.75E-03	3.55E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
274373	11/4/2013 - 11/11/2013	Beta	1.76E-02	1.43E-03	3.27E-03
274887	11/11/2013 - 11/18/2013	Beta	1.78E-02	1.46E-03	3.32E-03
276441	11/18/2013 - 11/25/2013	Beta	1.96E-02	1.46E-03	3.19E-03
277479	11/25/2013 - 12/2/2013	Beta	2.34E-02	1.55E-03	3.18E-03
278695	12/2/2013 - 12/9/2013	Beta	1.54E-02	1.39E-03	3.33E-03
278968	12/9/2013 - 12/16/2013	Beta	2.42E-02	1.53E-03	3.02E-03
279614	12/16/2013 - 12/23/2013	Beta	2.14E-02	1.56E-03	3.45E-03
280092	12/23/2013 - 12/30/2013	Beta	2.01E-02	1.48E-03	3.24E-03
280605	9/30/2013 - 12/30/2013	Cs-134	<3.86E-04	0.00E+00	3.86E-04
		Cs-137	<3.96E-04	0.00E+00	3.96E-04
		Be-7	1.17E-01	6.98E-03	7.14E-03
		K-40	2.74E-02	3.21E-03	4.46E-03

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
250440	12/31/2012 - 1/7/2013	Beta	2.28E-02	1.54E-03	3.28E-03
250570	1/7/2013 - 1/14/2013	Beta	2.37E-02	1.60E-03	3.41E-03
250739	1/14/2013 - 1/21/2013	Beta	1.06E-02	1.26E-03	3.25E-03
250987	1/21/2013 - 1/28/2013	Beta	2.82E-02	1.71E-03	3.55E-03
251273	1/28/2013 - 2/4/2013	Beta	2.33E-02	1.63E-03	3.66E-03
251603	2/4/2013 - 2/11/2013	Beta	1.73E-02	1.45E-03	3.37E-03
252069	2/11/2013 - 2/18/2013	Beta	1.93E-02	1.47E-03	3.26E-03
252686	2/18/2013 - 2/25/2013	Beta	2.08E-02	1.43E-03	2.89E-03
253072	2/25/2013 - 3/4/2013	Beta	1.16E-02	1.22E-03	3.00E-03
253880	3/4/2013 - 3/11/2013	Beta	1.03E-02	1.30E-03	3.46E-03
254202	3/11/2013 - 3/18/2013	Beta	1.86E-02	1.49E-03	3.44E-03
254737	3/18/2013 - 3/25/2013	Beta	1.86E-02	1.40E-03	2.98E-03
255297	3/25/2013 - 4/1/2013	Beta	1.38E-02	1.33E-03	3.22E-03
256426	12/31/2012 - 4/1/2013	I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<2.72E-04	0.00E+00	2.72E-04
		Cs-137	<2.91E-04	0.00E+00	2.91E-04
		Be-7	1.48E-01	5.30E-03	4.04E-03
		K-40	1.13E-02	1.79E-03	2.70E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
255826	4/1/2013 - 4/8/2013	Beta	1.62E-02	1.39E-03	3.21E-03
256060	4/8/2013 - 4/15/2013	Beta	1.73E-02	1.47E-03	3.49E-03
256328	4/15/2013 - 4/22/2013	Beta	1.30E-02	1.31E-03	3.20E-03
256595	4/22/2013 - 4/29/2013	Beta	1.35E-02	1.41E-03	3.61E-03
257118	4/29/2013 - 5/6/2013	Beta	6.93E-03	1.15E-03	3.20E-03
257271	5/6/2013 - 5/13/2013	Beta	1.15E-02	1.30E-03	3.36E-03
257718	5/13/2013 - 5/20/2013	Beta	2.62E-02	1.66E-03	3.47E-03
257962	5/20/2013 - 5/28/2013	Beta	1.71E-02	1.30E-03	2.88E-03
258197	5/28/2013 - 6/3/2013	Beta	1.19E-02	1.53E-03	4.11E-03
258544	6/3/2013 - 6/10/2013	Beta	1.12E-02	1.28E-03	3.30E-03
259014	6/10/2013 - 6/17/2013	Beta	1.49E-02	1.38E-03	3.32E-03
259562	6/17/2013 - 6/24/2013	Beta	1.49E-02	1.35E-03	3.24E-03
260196	6/24/2013 - 7/1/2013	Beta	1.68E-02	1.52E-03	3.68E-03
262474	4/1/2013 - 7/1/2013	I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<3.10E-04	0.00E+00	3.10E-04
		Cs-137	<2.97E-04	0.00E+00	2.97E-04
		Be-7	1.35E-01	5.91E-03	5.08E-03
		K-40	1.14E-02	1.96E-03	3.12E-03
260656	7/1/2013 - 7/8/2013	Beta	8.76E-03	1.15E-03	3.03E-03
261619	7/8/2013 - 7/15/2013	Beta	7.16E-03	1.26E-03	3.66E-03
262121	7/15/2013 - 7/22/2013	Beta	1.09E-02	1.20E-03	2.98E-03
263109	7/22/2013 - 7/29/2013	Beta	1.62E-02	1.43E-03	3.34E-03
263364	7/29/2013 - 8/5/2013	Beta	2.60E-02	1.63E-03	3.31E-03
264022	8/5/2013 - 8/12/2013	Beta	1.63E-02	1.35E-03	3.00E-03
265153	8/12/2013 - 8/19/2013	Beta	7.01E-03	1.24E-03	3.60E-03
265462	8/19/2013 - 8/26/2013	Beta	1.03E-02	1.25E-03	3.25E-03
267148	8/26/2013 - 9/3/2013	Beta	2.31E-02	1.44E-03	2.94E-03
267598	9/3/2013 - 9/9/2013	Beta	3.03E-02	1.88E-03	3.83E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
268453	9/9/2013 - 9/16/2013	Beta	2.92E-02	1.64E-03	3.04E-03
269576	9/16/2013 - 9/23/2013	Beta	2.17E-02	1.52E-03	3.26E-03
270719	9/23/2013 - 9/30/2013	Beta	1.89E-02	1.48E-03	3.32E-03
272568	7/1/2013 - 9/30/2013	I-131	<6.64E-02	0.00E+00	6.64E-02
		Cs-134	<8.12E-04	0.00E+00	8.12E-04
		Cs-137	<7.62E-04	0.00E+00	7.62E-04
		Be-7	9.78E-02	7.52E-03	1.28E-02
		K-40	1.68E-02	4.70E-03	1.06E-02
271444	9/30/2013 - 10/7/2013	Beta	2.60E-02	1.57E-03	2.99E-03
272051	10/7/2013 - 10/14/2013	Beta	1.17E-02	1.29E-03	3.30E-03
272434	10/14/2013 - 10/21/2013	Beta	1.80E-02	1.50E-03	3.52E-03
272835	10/21/2013 - 10/28/2013	Beta	2.51E-02	1.62E-03	3.36E-03
273927	10/28/2013 - 11/4/2013	Beta	2.80E-02	1.70E-03	3.55E-03
274374	11/4/2013 - 11/11/2013	Beta	1.56E-02	1.38E-03	3.28E-03
274888	11/11/2013 - 11/18/2013	Beta	1.86E-02	1.47E-03	3.32E-03
276442	11/18/2013 - 11/25/2013	Beta	1.68E-02	1.39E-03	3.18E-03
277480	11/25/2013 - 12/2/2013	Beta	1.85E-02	1.44E-03	3.17E-03
278696	12/2/2013 - 12/9/2013	Beta	9.86E-03	1.25E-03	3.33E-03
278969	12/9/2013 - 12/16/2013	Beta	1.76E-02	1.38E-03	3.02E-03
279615	12/16/2013 - 12/23/2013	Beta	1.74E-02	1.47E-03	3.44E-03
280093	12/23/2013 - 12/30/2013	Beta	1.86E-02	1.45E-03	3.24E-03
280606	9/30/2013 - 12/30/2013	Cs-134	<3.50E-04	0.00E+00	3.50E-04
		Cs-137	<3.50E-04	0.00E+00	3.50E-04
		Be-7	1.04E-01	6.49E-03	5.90E-03
		K-40	1.03E-02	2.39E-03	4.98E-03

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
250441	12/31/2012 - 1/7/2013	Beta	2.64E-02	1.61E-03	3.27E-03
250571	1/7/2013 - 1/14/2013	Beta	1.90E-02	1.50E-03	3.42E-03
250740	1/14/2013 - 1/21/2013	Beta	9.53E-03	1.22E-03	3.26E-03
250988	1/21/2013 - 1/28/2013	Beta	2.53E-02	1.66E-03	3.55E-03
251274	1/28/2013 - 2/4/2013	Beta	2.17E-02	1.59E-03	3.65E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251604	2/4/2013 - 2/11/2013	Beta	1.82E-02	1.48E-03	3.38E-03
252070	2/11/2013 - 2/18/2013	Beta	1.34E-02	1.33E-03	3.26E-03
252687	2/18/2013 - 2/25/2013	Beta	1.94E-02	1.40E-03	2.89E-03
253073	2/25/2013 - 3/4/2013	Beta	1.32E-02	1.26E-03	2.99E-03
253881	3/4/2013 - 3/11/2013	Beta	1.13E-02	1.33E-03	3.47E-03
254203	3/11/2013 - 3/18/2013	Beta	1.69E-02	1.45E-03	3.44E-03
254738	3/18/2013 - 3/25/2013	Beta	1.39E-02	1.28E-03	2.99E-03
255298	3/25/2013 - 4/1/2013	Beta	1.47E-02	1.33E-03	3.15E-03
256427	12/31/2012 - 4/1/2013	I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<3.58E-04	0.00E+00	3.58E-04
		Cs-137	<4.33E-04	0.00E+00	4.33E-04
		Be-7	1.34E-01	5.11E-03	4.45E-03
		K-40	1.74E-02	2.35E-03	2.83E-03
255827	4/1/2013 - 4/8/2013	Beta	1.78E-02	1.46E-03	3.29E-03
256061	4/8/2013 - 4/15/2013	Beta	1.16E-02	1.33E-03	3.47E-03
256329	4/15/2013 - 4/22/2013	Beta	1.22E-02	1.29E-03	3.20E-03
256596	4/22/2013 - 4/29/2013	Beta	1.38E-02	1.40E-03	3.56E-03
257119	4/29/2013 - 5/6/2013	Beta	7.60E-03	1.17E-03	3.22E-03
257272	5/6/2013 - 5/13/2013	Beta	1.04E-02	1.27E-03	3.34E-03
257719	5/13/2013 - 5/20/2013	Beta	2.17E-02	1.57E-03	3.48E-03
257963	5/20/2013 - 5/28/2013	Beta	1.46E-02	1.23E-03	2.87E-03
258198	5/28/2013 - 6/3/2013	Beta	9.24E-03	1.47E-03	4.14E-03
258545	6/3/2013 - 6/10/2013	Beta	1.23E-02	1.31E-03	3.30E-03
259015	6/10/2013 - 6/17/2013	Beta	1.18E-02	1.30E-03	3.32E-03
259563	6/17/2013 - 6/24/2013	Beta	1.41E-02	1.33E-03	3.23E-03
260197	6/24/2013 - 7/1/2013	Beta	1.37E-02	1.45E-03	3.70E-03
262483	4/1/2013 - 7/1/2013	I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<2.91E-04	0.00E+00	2.91E-04
		Cs-137	<3.12E-04	0.00E+00	3.12E-04
		Be-7	1.31E-01	5.50E-03	4.23E-03
		K-40	1.74E-02	2.02E-03	3.10E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
260657	7/1/2013 - 7/8/2013	Beta	4.90E-03	1.03E-03	3.02E-03
261620	7/8/2013 - 7/15/2013	Beta	6.30E-03	1.24E-03	3.66E-03
262122	7/15/2013 - 7/22/2013	Beta	1.19E-02	1.22E-03	2.99E-03
263110	7/22/2013 - 7/29/2013	Beta	1.66E-02	1.44E-03	3.34E-03
263365	7/29/2013 - 8/5/2013	Beta	2.03E-02	1.50E-03	3.31E-03
264023	8/5/2013 - 8/12/2013	Beta	1.57E-02	1.33E-03	3.00E-03
265154	8/12/2013 - 8/19/2013	Beta	7.52E-03	1.25E-03	3.58E-03
265463	8/19/2013 - 8/26/2013	Beta	1.02E-02	1.25E-03	3.25E-03
267149	8/26/2013 - 9/3/2013	Beta	2.24E-02	1.43E-03	2.96E-03
267599	9/3/2013 - 9/9/2013	Beta	2.95E-02	1.87E-03	3.83E-03
268454	9/9/2013 - 9/16/2013	Beta	3.06E-02	1.67E-03	3.04E-03
269577	9/16/2013 - 9/23/2013	Beta	2.22E-02	1.54E-03	3.27E-03
270720	9/23/2013 - 9/30/2013	Beta	2.00E-02	1.50E-03	3.30E-03
272569	7/1/2013 - 9/30/2013	I-131	<3.17E-02	0.00E+00	3.17E-02
		Cs-134	<3.44E-04	0.00E+00	3.44E-04
		Cs-137	<2.83E-04	0.00E+00	2.83E-04
		Be-7	1.00E-01	5.52E-03	4.38E-03
		K-40	8.11E-03	2.40E-03	4.63E-03
271445	9/30/2013 - 10/7/2013	Beta	3.02E-02	1.66E-03	3.02E-03
272052	10/7/2013 - 10/14/2013	Beta	1.24E-02	1.30E-03	3.27E-03
272435	10/14/2013 - 10/21/2013	Beta	2.05E-02	1.56E-03	3.54E-03
272836	10/21/2013 - 10/28/2013	Beta	2.69E-02	1.66E-03	3.37E-03
273928	10/28/2013 - 11/4/2013	Beta	2.79E-02	1.70E-03	3.55E-03
274375	11/4/2013 - 11/11/2013	Beta	1.66E-02	1.41E-03	3.27E-03
274889	11/11/2013 - 11/18/2013	Beta	1.83E-02	1.47E-03	3.33E-03
276443	11/18/2013 - 11/25/2013	Beta	1.81E-02	1.42E-03	3.18E-03
277481	11/25/2013 - 12/2/2013	Beta	2.01E-02	1.48E-03	3.18E-03
278697	12/2/2013 - 12/9/2013	Beta	1.33E-02	1.34E-03	3.32E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
278970	12/9/2013 - 12/16/2013	Beta	2.09E-02	1.47E-03	3.04E-03
279616	12/16/2013 - 12/23/2013	Beta	1.86E-02	1.50E-03	3.44E-03
280094	12/23/2013 - 12/30/2013	Beta	1.91E-02	1.46E-03	3.25E-03
280607	9/30/2013 - 12/30/2013	Cs-134	<2.48E-04	0.00E+00	2.48E-04
		Cs-137	<2.66E-04	0.00E+00	2.66E-04
		Be-7	1.19E-01	4.99E-03	4.47E-03
		K-40	2.19E-02	2.58E-03	2.67E-03

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250442	12/31/2012 - 1/7/2013	Beta	2.49E-02	1.60E-03	3.32E-03
250572	1/7/2013 - 1/14/2013	Beta	1.86E-02	1.48E-03	3.38E-03
250741	1/14/2013 - 1/21/2013	Beta	7.65E-03	1.18E-03	3.27E-03
250989	1/21/2013 - 1/28/2013	Beta	2.69E-02	1.68E-03	3.55E-03
251275	1/28/2013 - 2/4/2013	Beta	1.69E-02	1.51E-03	3.70E-03
251605	2/4/2013 - 2/11/2013	Beta	1.37E-02	1.35E-03	3.32E-03
252071	2/11/2013 - 2/18/2013	Beta	1.86E-02	1.45E-03	3.27E-03
252688	2/18/2013 - 2/25/2013	Beta	1.59E-02	1.32E-03	2.89E-03
253074	2/25/2013 - 3/4/2013	Beta	1.44E-02	1.31E-03	3.05E-03
253882	3/4/2013 - 3/11/2013	Beta	1.41E-02	1.39E-03	3.41E-03
254204	3/11/2013 - 3/18/2013	Beta	2.27E-02	1.59E-03	3.44E-03
254739	3/18/2013 - 3/25/2013	Beta	1.60E-02	1.34E-03	2.98E-03
255299	3/25/2013 - 4/1/2013	Beta	1.64E-02	1.40E-03	3.24E-03
256428	12/31/2012 - 4/1/2013	I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<3.26E-04	0.00E+00	3.26E-04
		Cs-137	<3.62E-04	0.00E+00	3.62E-04
		Be-7	1.43E-01	5.98E-03	3.69E-03
		K-40	<8.43E-03	0.00E+00	8.43E-03
255828	4/1/2013 - 4/8/2013	Beta	2.01E-02	1.48E-03	3.19E-03
256062	4/8/2013 - 4/15/2013	Beta	1.39E-02	1.40E-03	3.52E-03
256330	4/15/2013 - 4/22/2013	Beta	1.32E-02	1.31E-03	3.18E-03
256597	4/22/2013 - 4/29/2013	Beta	1.08E-02	1.34E-03	3.62E-03
257120	4/29/2013 - 5/6/2013	Beta	5.82E-03	1.10E-03	3.17E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
257273	5/6/2013 - 5/13/2013	Beta	1.23E-02	1.33E-03	3.37E-03
257720	5/13/2013 - 5/20/2013	Beta	2.42E-02	1.62E-03	3.47E-03
257964	5/20/2013 - 5/28/2013	Beta	1.41E-02	1.23E-03	2.89E-03
258199	5/28/2013 - 6/3/2013	Beta	9.76E-03	1.47E-03	4.08E-03
258546	6/3/2013 - 6/10/2013	Beta	1.08E-02	1.27E-03	3.29E-03
259016	6/10/2013 - 6/17/2013	Beta	1.25E-02	1.32E-03	3.32E-03
259564	6/17/2013 - 6/24/2013	Beta	1.68E-02	1.43E-03	3.35E-03
260198	6/24/2013 - 7/1/2013	Beta	1.33E-02	1.39E-03	3.56E-03
262484	4/1/2013 - 7/1/2013	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<2.63E-04	0.00E+00	2.63E-04
		Cs-137	<3.17E-04	0.00E+00	3.17E-04
		Be-7	1.35E-01	4.81E-03	3.85E-03
		K-40	8.16E-03	2.56E-03	3.68E-03
260658	7/1/2013 - 7/8/2013	Beta	5.52E-03	1.06E-03	3.03E-03
261621	7/8/2013 - 7/15/2013	Beta	8.67E-03	1.30E-03	3.66E-03
262123	7/15/2013 - 7/22/2013	Beta	1.19E-02	1.24E-03	3.03E-03
263111	7/22/2013 - 7/29/2013	Beta	1.43E-02	1.36E-03	3.28E-03
263366	7/29/2013 - 8/5/2013	Beta	2.87E-02	1.68E-03	3.32E-03
264024	8/5/2013 - 8/12/2013	Beta	1.28E-02	1.26E-03	3.00E-03
265155	8/12/2013 - 8/19/2013	Beta	1.06E-02	1.35E-03	3.65E-03
265464	8/19/2013 - 8/26/2013	Beta	1.22E-02	1.29E-03	3.20E-03
267150	8/26/2013 - 9/3/2013	Beta	2.88E-02	1.55E-03	2.95E-03
267600	9/3/2013 - 9/9/2013	Beta	2.82E-02	1.85E-03	3.84E-03
268455	9/9/2013 - 9/16/2013	Beta	3.26E-02	1.71E-03	3.06E-03
269578	9/16/2013 - 9/23/2013	Beta	2.25E-02	1.54E-03	3.25E-03
270721	9/23/2013 - 9/30/2013	Beta	1.93E-02	1.48E-03	3.31E-03
272570	7/1/2013 - 9/30/2013	I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<2.53E-04	0.00E+00	2.53E-04
		Cs-137	<2.88E-04	0.00E+00	2.88E-04
		Be-7	1.06E-01	4.51E-03	4.16E-03
		K-40	2.31E-02	2.51E-03	2.40E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
271446	9/30/2013 - 10/7/2013	Beta	3.24E-02	1.71E-03	3.04E-03
272053	10/7/2013 - 10/14/2013	Beta	1.58E-02	1.39E-03	3.31E-03
272436	10/14/2013 - 10/21/2013	Beta	2.18E-02	1.57E-03	3.49E-03
272837	10/21/2013 - 10/28/2013	Beta	2.62E-02	1.64E-03	3.35E-03
273929	10/28/2013 - 11/4/2013	Beta	2.81E-02	1.71E-03	3.56E-03
274376	11/4/2013 - 11/11/2013	Beta	1.82E-02	1.45E-03	3.32E-03
274890	11/11/2013 - 11/18/2013	Beta	1.50E-02	1.38E-03	3.29E-03
276444	11/18/2013 - 11/25/2013	Beta	1.85E-02	1.44E-03	3.21E-03
277482	11/25/2013 - 12/2/2013	Beta	2.16E-02	1.50E-03	3.15E-03
278698	12/2/2013 - 12/9/2013	Beta	1.20E-02	1.31E-03	3.34E-03
278971	12/9/2013 - 12/16/2013	Beta	2.18E-02	1.49E-03	3.04E-03
279617	12/16/2013 - 12/23/2013	Beta	1.47E-02	1.40E-03	3.42E-03
280095	12/23/2013 - 12/30/2013	Beta	1.83E-02	1.44E-03	3.26E-03
280608	9/30/2013 - 12/30/2013	Cs-134	<2.99E-04	0.00E+00	2.99E-04
		Cs-137	<3.11E-04	0.00E+00	3.11E-04
		Be-7	1.20E-01	6.01E-03	4.31E-03
		K-40	1.00E-02	2.46E-03	4.50E-03

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
250443	12/31/2012 - 1/7/2013	Beta	2.28E-02	1.54E-03	3.28E-03
250573	1/7/2013 - 1/14/2013	Beta	2.23E-02	1.57E-03	3.40E-03
250742	1/14/2013 - 1/21/2013	Beta	7.88E-03	1.18E-03	3.26E-03
250990	1/21/2013 - 1/28/2013	Beta	2.61E-02	1.67E-03	3.54E-03
251276	1/28/2013 - 2/4/2013	Beta	2.05E-02	1.57E-03	3.66E-03
251606	2/4/2013 - 2/11/2013	Beta	1.55E-02	1.41E-03	3.36E-03
252072	2/11/2013 - 2/18/2013	Beta	1.78E-02	1.43E-03	3.26E-03
252689	2/18/2013 - 2/25/2013	Beta	2.00E-02	1.41E-03	2.89E-03
253075	2/25/2013 - 3/4/2013	Beta	1.18E-02	1.23E-03	3.00E-03
253883	3/4/2013 - 3/11/2013	Beta	1.20E-02	1.35E-03	3.46E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
254205	3/11/2013 - 3/18/2013	Beta	1.84E-02	1.49E-03	3.43E-03
254740	3/18/2013 - 3/25/2013	Beta	1.64E-02	1.35E-03	2.98E-03
255300	3/25/2013 - 4/1/2013	Beta	1.33E-02	1.31E-03	3.19E-03
256429	12/31/2012 - 4/1/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.67E-04	0.00E+00	2.67E-04
		Cs-137	<2.49E-04	0.00E+00	2.49E-04
		Be-7	1.32E-01	4.64E-03	4.26E-03
		K-40	2.22E-02	2.46E-03	2.41E-03
255829	4/1/2013 - 4/8/2013	Beta	1.75E-02	1.43E-03	3.24E-03
256063	4/8/2013 - 4/15/2013	Beta	1.15E-02	1.34E-03	3.51E-03
256331	4/15/2013 - 4/22/2013	Beta	1.02E-02	1.23E-03	3.19E-03
256598	4/22/2013 - 4/29/2013	Beta	1.36E-02	1.41E-03	3.59E-03
257121	4/29/2013 - 5/6/2013	Beta	7.74E-03	1.17E-03	3.20E-03
257274	5/6/2013 - 5/13/2013	Beta	1.17E-02	1.31E-03	3.36E-03
257721	5/13/2013 - 5/20/2013	Beta	2.43E-02	1.61E-03	3.46E-03
257965	5/20/2013 - 5/28/2013	Beta	1.78E-02	1.31E-03	2.88E-03
258200	5/28/2013 - 6/3/2013	Beta	1.33E-02	1.56E-03	4.11E-03
258547	6/3/2013 - 6/10/2013	Beta	1.22E-02	1.31E-03	3.29E-03
259017	6/10/2013 - 6/17/2013	Beta	1.32E-02	1.33E-03	3.32E-03
259565	6/17/2013 - 6/24/2013	Beta	1.32E-02	1.31E-03	3.25E-03
260199	6/24/2013 - 7/1/2013	Beta	1.47E-02	1.47E-03	3.68E-03
262485	4/1/2013 - 7/1/2013	I-131	<2.70E-02	0.00E+00	2.70E-02
		Cs-134	<3.24E-04	0.00E+00	3.24E-04
		Cs-137	<4.30E-04	0.00E+00	4.30E-04
		Be-7	1.28E-01	5.39E-03	5.27E-03
		K-40	2.36E-02	2.58E-03	3.81E-03
260659	7/1/2013 - 7/8/2013	Beta	6.70E-03	1.09E-03	3.03E-03
261622	7/8/2013 - 7/15/2013	Beta	7.07E-03	1.26E-03	3.65E-03
262124	7/15/2013 - 7/22/2013	Beta	1.48E-02	1.30E-03	2.98E-03
263112	7/22/2013 - 7/29/2013	Beta	1.49E-02	1.39E-03	3.34E-03
263367	7/29/2013 - 8/5/2013	Beta	2.62E-02	1.63E-03	3.32E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
264025	8/5/2013 - 8/12/2013	Beta	1.89E-02	1.41E-03	3.00E-03
265156	8/12/2013 - 8/19/2013	Beta	9.66E-03	1.31E-03	3.59E-03
265465	8/19/2013 - 8/26/2013	Beta	1.27E-02	1.32E-03	3.25E-03
267151	8/26/2013 - 9/3/2013	Beta	2.75E-02	1.52E-03	2.94E-03
267601	9/3/2013 - 9/9/2013	Beta	2.66E-02	1.81E-03	3.83E-03
268456	9/9/2013 - 9/16/2013	Beta	3.77E-02	1.80E-03	3.04E-03
269579	9/16/2013 - 9/23/2013	Beta	2.62E-02	1.62E-03	3.26E-03
270722	9/23/2013 - 9/30/2013	Beta	2.08E-02	1.52E-03	3.32E-03
272571	7/1/2013 - 9/30/2013	I-131	<5.18E-02	0.00E+00	5.18E-02
		Cs-134	<4.09E-04	0.00E+00	4.09E-04
		Cs-137	<3.50E-04	0.00E+00	3.50E-04
		Be-7	1.00E-01	7.14E-03	7.86E-03
		K-40	7.30E-03	1.86E-03	2.82E-03
271447	9/30/2013 - 10/7/2013	Beta	3.18E-02	1.69E-03	3.00E-03
272054	10/7/2013 - 10/14/2013	Beta	1.63E-02	1.40E-03	3.29E-03
272437	10/14/2013 - 10/21/2013	Beta	2.04E-02	1.55E-03	3.53E-03
272838	10/21/2013 - 10/28/2013	Beta	2.49E-02	1.61E-03	3.35E-03
273930	10/28/2013 - 11/4/2013	Beta	3.04E-02	1.75E-03	3.56E-03
274377	11/4/2013 - 11/11/2013	Beta	1.71E-02	1.41E-03	3.27E-03
274891	11/11/2013 - 11/18/2013	Beta	1.89E-02	1.48E-03	3.32E-03
276445	11/18/2013 - 11/25/2013	Beta	1.78E-02	1.42E-03	3.21E-03
277483	11/25/2013 - 12/2/2013	Beta	2.33E-02	1.54E-03	3.15E-03
278699	12/2/2013 - 12/9/2013	Beta	1.28E-02	1.33E-03	3.33E-03
278972	12/9/2013 - 12/16/2013	Beta	2.18E-02	1.48E-03	3.02E-03
279618	12/16/2013 - 12/23/2013	Beta	2.08E-02	1.55E-03	3.45E-03
280096	12/23/2013 - 12/30/2013	Beta	2.06E-02	1.49E-03	3.24E-03
280609	9/30/2013 - 12/30/2013	Cs-134	<2.82E-04	0.00E+00	2.82E-04
		Cs-137	<4.34E-04	0.00E+00	4.34E-04
		Be-7	1.16E-01	6.83E-03	6.35E-03
		K-40	2.03E-02	2.76E-03	3.46E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
250450	12/31/2012 - 1/7/2013	Beta	2.29E-02	1.54E-03	3.28E-03
250580	1/7/2013 - 1/14/2013	Beta	2.22E-02	1.57E-03	3.41E-03
250749	1/14/2013 - 1/21/2013	Beta	1.13E-02	1.27E-03	3.25E-03
250997	1/21/2013 - 1/28/2013	Beta	2.87E-02	1.72E-03	3.55E-03
251283	1/28/2013 - 2/4/2013	Beta	1.93E-02	1.54E-03	3.66E-03
251613	2/4/2013 - 2/11/2013	Beta	1.50E-02	1.40E-03	3.37E-03
252079	2/11/2013 - 2/18/2013	Beta	1.52E-02	1.37E-03	3.26E-03
252707	2/18/2013 - 2/25/2013	Beta	1.86E-02	1.38E-03	2.89E-03
253082	2/25/2013 - 3/4/2013	Beta	1.07E-02	1.20E-03	3.00E-03
253890	3/4/2013 - 3/11/2013	Beta	1.24E-02	1.36E-03	3.46E-03
254212	3/11/2013 - 3/18/2013	Beta	2.00E-02	1.52E-03	3.43E-03
254747	3/18/2013 - 3/25/2013	Beta	1.73E-02	1.36E-03	2.98E-03
255307	3/25/2013 - 4/1/2013	Beta	1.42E-02	1.34E-03	3.23E-03
256430	12/31/2012 - 4/1/2013	I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<3.95E-04	0.00E+00	3.95E-04
		Cs-137	<4.42E-04	0.00E+00	4.42E-04
		Be-7	1.46E-01	7.00E-03	5.42E-03
		K-40	1.65E-02	2.55E-03	1.06E-03
255836	4/1/2013 - 4/8/2013	Beta	1.84E-02	1.45E-03	3.21E-03
256070	4/8/2013 - 4/15/2013	Beta	1.37E-02	1.39E-03	3.49E-03
256338	4/15/2013 - 4/22/2013	Beta	1.14E-02	1.27E-03	3.19E-03
256605	4/22/2013 - 4/29/2013	Beta	1.31E-02	1.39E-03	3.58E-03
257128	4/29/2013 - 5/6/2013	Beta	6.82E-03	1.14E-03	3.21E-03
257281	5/6/2013 - 5/13/2013	Beta	1.41E-02	1.37E-03	3.36E-03
257728	5/13/2013 - 5/20/2013	Beta	2.45E-02	1.62E-03	3.47E-03
257972	5/20/2013 - 5/28/2013	Beta	1.85E-02	1.33E-03	2.88E-03
258207	5/28/2013 - 6/3/2013	Beta	1.20E-02	1.53E-03	4.08E-03
258554	6/3/2013 - 6/10/2013	Beta	1.19E-02	1.30E-03	3.30E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
259024	6/10/2013 - 6/17/2013	Beta	1.58E-02	1.40E-03	3.32E-03
259572	6/17/2013 - 6/24/2013	Beta	1.47E-02	1.35E-03	3.24E-03
260206	6/24/2013 - 7/1/2013	Beta	1.59E-02	1.49E-03	3.68E-03
262486	4/1/2013 - 7/1/2013	I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.52E-04	0.00E+00	2.52E-04
		Cs-137	<3.70E-04	0.00E+00	3.70E-04
		Be-7	1.46E-01	6.23E-03	4.68E-03
		K-40	1.17E-02	2.87E-03	4.52E-03
260666	7/1/2013 - 7/8/2013	Beta	6.40E-03	1.08E-03	3.03E-03
261629	7/8/2013 - 7/15/2013	Beta	9.51E-03	1.32E-03	3.66E-03
262131	7/15/2013 - 7/22/2013	Beta	1.33E-02	1.26E-03	2.98E-03
263113	7/22/2013 - 7/29/2013	Beta	2.02E-02	1.52E-03	3.34E-03
263374	7/29/2013 - 8/5/2013	Beta	2.59E-02	1.62E-03	3.31E-03
264032	8/5/2013 - 8/12/2013	Beta	1.79E-02	1.39E-03	3.00E-03
265163	8/12/2013 - 8/19/2013	Beta	1.15E-02	1.36E-03	3.60E-03
265472	8/19/2013 - 8/26/2013	Beta	1.31E-02	1.33E-03	3.25E-03
267158	8/26/2013 - 9/3/2013	Beta	3.15E-02	1.60E-03	2.95E-03
267608	9/3/2013 - 9/9/2013	Beta	3.50E-02	1.98E-03	3.84E-03
268463	9/9/2013 - 9/16/2013	Beta	3.73E-02	1.79E-03	3.04E-03
269597	9/16/2013 - 9/23/2013	Beta	2.54E-02	1.60E-03	3.27E-03
270729	9/23/2013 - 9/30/2013	Beta	1.97E-02	1.50E-03	3.32E-03
272572	7/1/2013 - 9/30/2013	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.74E-04	0.00E+00	2.74E-04
		Cs-137	<3.27E-04	0.00E+00	3.27E-04
		Be-7	1.17E-01	5.71E-03	4.26E-03
		K-40	6.23E-03	2.43E-03	4.99E-03
271454	9/30/2013 - 10/7/2013	Beta	2.85E-02	1.62E-03	2.99E-03
272061	10/7/2013 - 10/14/2013	Beta	1.44E-02	1.36E-03	3.30E-03
272444	10/14/2013 - 10/21/2013	Beta	1.93E-02	1.52E-03	3.52E-03
272845	10/21/2013 - 10/28/2013	Beta	2.55E-02	1.63E-03	3.37E-03
273937	10/28/2013 - 11/4/2013	Beta	2.66E-02	1.68E-03	3.55E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274384	11/4/2013 - 11/11/2013	Beta	1.80E-02	1.44E-03	3.28E-03
274898	11/11/2013 - 11/18/2013	Beta	1.87E-02	1.48E-03	3.33E-03
276452	11/18/2013 - 11/25/2013	Beta	2.03E-02	1.48E-03	3.18E-03
277484	11/25/2013 - 12/2/2013	Beta	2.09E-02	1.50E-03	3.18E-03
278701	12/2/2013 - 12/9/2013	Beta	1.32E-02	1.34E-03	3.33E-03
278974	12/9/2013 - 12/16/2013	Beta	1.99E-02	1.44E-03	3.02E-03
279620	12/16/2013 - 12/23/2013	Beta	2.05E-02	1.54E-03	3.44E-03
280098	12/23/2013 - 12/30/2013	Beta	1.95E-02	1.47E-03	3.24E-03
280610	9/30/2013 - 12/30/2013	Cs-134	<2.30E-04	0.00E+00	2.30E-04
		Cs-137	<2.56E-04	0.00E+00	2.56E-04
		Be-7	1.27E-01	4.99E-03	4.43E-03
		K-40	2.07E-02	2.22E-03	2.45E-03

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250429	12/31/2012 - 1/7/2013	I-131	<1.31E-02	0.00E+00	1.31E-02
		Cs-134	<8.02E-03	0.00E+00	8.02E-03
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<6.81E-02	0.00E+00	6.81E-02
		K-40	5.44E-01	8.49E-02	1.01E-01
250559	1/7/2013 - 1/14/2013	I-131	<1.09E-02	0.00E+00	1.09E-02
		Cs-134	<9.02E-03	0.00E+00	9.02E-03
		Cs-137	<1.06E-02	0.00E+00	1.06E-02
		Be-7	<6.66E-02	0.00E+00	6.66E-02
		K-40	2.87E-01	7.62E-02	1.27E-01
250728	1/14/2013 - 1/21/2013	I-131	<1.37E-02	0.00E+00	1.37E-02
		Cs-134	<8.06E-03	0.00E+00	8.06E-03
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	4.32E-01	1.02E-01	2.57E-01
250976	1/21/2013 - 1/28/2013	I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.56E-01	1.14E-01	1.75E-01
251262	1/28/2013 - 2/4/2013	I-131	<1.56E-02	0.00E+00	1.56E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<9.02E-03	0.00E+00	9.02E-03
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.66E-01	1.20E-01	2.82E-01
251592	2/4/2013 - 2/11/2013	I-131	<1.49E-02	0.00E+00	1.49E-02
		Cs-134	<9.51E-03	0.00E+00	9.51E-03
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251592	2/4/2013 - 2/11/2013	K-40	3.96E-01	9.91E-02	1.79E-01
252058	2/11/2013 - 2/18/2013	I-131	<1.79E-02	0.00E+00	1.79E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	5.79E-01	1.18E-01	2.16E-01
252675	2/18/2013 - 2/25/2013	I-131	<8.55E-03	0.00E+00	8.55E-03
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	1.97E-01	8.69E-02	2.00E-01
253061	2/25/2013 - 3/4/2013	I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<9.49E-03	0.00E+00	9.49E-03
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<6.72E-02	0.00E+00	6.72E-02
		K-40	3.63E-01	7.80E-02	3.56E-02
253869	3/4/2013 - 3/11/2013	I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<6.33E-02	0.00E+00	6.33E-02
		K-40	4.84E-01	1.08E-01	2.10E-01
254191	3/11/2013 - 3/18/2013	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<9.10E-02	0.00E+00	9.10E-02
		K-40	3.98E-01	1.19E-01	1.74E-01
254726	3/18/2013 - 3/25/2013	I-131	<1.24E-02	0.00E+00	1.24E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	<4.09E-01	0.00E+00	4.09E-01
255286	3/25/2013 - 4/1/2013	I-131	<1.23E-02	0.00E+00	1.23E-02
		Cs-134	<9.97E-03	0.00E+00	9.97E-03
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	<4.87E-01	0.00E+00	4.87E-01
255815	4/1/2013 - 4/8/2013	I-131	<1.17E-02	0.00E+00	1.17E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<9.44E-02	0.00E+00	9.44E-02
		K-40	2.91E-01	8.07E-02	1.62E-01
256049	4/8/2013 - 4/15/2013	I-131	<1.54E-02	0.00E+00	1.54E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	3.07E-01	8.51E-02	6.38E-02
256317	4/15/2013 - 4/22/2013	I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<7.90E-03	0.00E+00	7.90E-03
		Cs-137	<9.45E-03	0.00E+00	9.45E-03
		Be-7	<9.06E-02	0.00E+00	9.06E-02
		K-40	5.38E-01	9.17E-02	9.07E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
Sample ID: 256584	Sample Dates: 4/22/2013 - 4/29/2013	I-131	<1.38E-02	0.00E+00	1.38E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.19E-01	1.25E-01	2.68E-01
Sample ID: 257107	Sample Dates: 4/29/2013 - 5/6/2013	I-131	<1.38E-02	0.00E+00	1.38E-02
		Cs-134	<1.04E-02	0.00E+00	1.04E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	3.18E-01	8.81E-02	6.60E-02
Sample ID: 257260	Sample Dates: 5/6/2013 - 5/13/2013	I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<6.75E-02	0.00E+00	6.75E-02
		K-40	<4.13E-01	0.00E+00	4.13E-01
Sample ID: 257707	Sample Dates: 5/13/2013 - 5/20/2013	I-131	<1.58E-02	0.00E+00	1.58E-02
		Cs-134	<9.80E-03	0.00E+00	9.80E-03
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	3.68E-01	1.18E-01	6.50E-02
Sample ID: 257951	Sample Dates: 5/20/2013 - 5/28/2013	I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	4.47E-01	1.32E-01	6.68E-02
Sample ID: 258186	Sample Dates: 5/28/2013 - 6/3/2013	I-131	<2.61E-02	0.00E+00	2.61E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<2.76E-02	0.00E+00	2.76E-02
		Be-7	<1.77E-01	0.00E+00	1.77E-01
		K-40	<7.16E-01	0.00E+00	7.16E-01
Sample ID: 258533	Sample Dates: 6/3/2013 - 6/10/2013	I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	6.00E-01	1.65E-01	3.33E-01
Sample ID: 259003	Sample Dates: 6/10/2013 - 6/17/2013	I-131	<1.00E-02	0.00E+00	1.00E-02
		Cs-134	<6.80E-03	0.00E+00	6.80E-03
		Cs-137	<9.42E-03	0.00E+00	9.42E-03
		Be-7	<7.18E-02	0.00E+00	7.18E-02
		K-40	4.93E-01	7.80E-02	3.33E-02
Sample ID: 259551	Sample Dates: 6/17/2013 - 6/24/2013	I-131	<1.82E-02	0.00E+00	1.82E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	3.84E-01	1.03E-01	7.42E-02
Sample ID: 260185	Sample Dates: 6/24/2013 - 7/1/2013	I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	5.06E-01	1.23E-01	8.04E-02
Sample ID: 260645	Sample Dates: 7/1/2013 - 7/8/2013	I-131	<1.76E-02	0.00E+00	1.76E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260645	7/1/2013 - 7/8/2013	Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	<6.10E-01	0.00E+00	6.10E-01
261608	7/8/2013 - 7/15/2013	I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	<5.16E-01	0.00E+00	5.16E-01
262110	7/15/2013 - 7/22/2013	I-131	<1.07E-02	0.00E+00	1.07E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<1.36E-02	0.00E+00	1.36E-02
		Be-7	<8.97E-02	0.00E+00	8.97E-02
		K-40	4.62E-01	9.86E-02	1.54E-01
262944	7/22/2013 - 7/29/2013	I-131	<1.16E-02	0.00E+00	1.16E-02
		Cs-134	<1.27E-02	0.00E+00	1.27E-02
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<9.45E-02	0.00E+00	9.45E-02
		K-40	3.32E-01	8.58E-02	5.99E-02
263353	7/29/2013 - 8/5/2013	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	3.38E-01	9.04E-02	1.74E-01
264011	8/5/2013 - 8/12/2013	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<9.20E-02	0.00E+00	9.20E-02
		K-40	4.55E-01	1.14E-01	2.04E-01
265142	8/12/2013 - 8/19/2013	I-131	<1.58E-02	0.00E+00	1.58E-02
		Cs-134	<8.08E-03	0.00E+00	8.08E-03
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	3.41E-01	8.26E-02	5.42E-02
265451	8/19/2013 - 8/26/2013	I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<5.48E-01	0.00E+00	5.48E-01
267137	8/26/2013 - 9/3/2013	I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	1.97E-01	1.15E-01	1.88E-01
267587	9/3/2013 - 9/9/2013	I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	5.64E-01	1.37E-01	2.87E-01
268442	9/9/2013 - 9/16/2013	I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
268442	9/9/2013 - 9/16/2013	K-40	5.36E-01	1.23E-01	2.13E-01
269565	9/16/2013 - 9/23/2013	I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<9.63E-02	0.00E+00	9.63E-02
		K-40	3.00E-01	1.43E-01	2.16E-01
270708	9/23/2013 - 9/30/2013	I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	<5.27E-01	0.00E+00	5.27E-01
271433	9/30/2013 - 10/7/2013	I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.59E-01	0.00E+00	1.59E-01
		K-40	<5.66E-01	0.00E+00	5.66E-01
272040	10/7/2013 - 10/14/2013	I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<2.05E-01	0.00E+00	2.05E-01
		K-40	6.74E-01	1.38E-01	7.60E-02
272423	10/14/2013 - 10/21/2013	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	5.21E-01	1.23E-01	2.10E-01
272824	10/21/2013 - 10/28/2013	I-131	<2.42E-02	0.00E+00	2.42E-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	<1.62E-01	0.00E+00	1.62E-01
		K-40	4.91E-01	1.19E-01	2.62E-01
273916	10/28/2013 - 11/4/2013	I-131	<1.30E-02	0.00E+00	1.30E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	4.22E-01	9.96E-02	2.91E-01
274363	11/4/2013 - 11/11/2013	I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.21E-02	0.00E+00	1.21E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	4.66E-01	1.37E-01	2.01E-01
274877	11/11/2013 - 11/18/2013	I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	5.52E-01	1.27E-01	2.61E-01
276431	11/18/2013 - 11/25/2013	I-131	<1.47E-02	0.00E+00	1.47E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<9.40E-02	0.00E+00	9.40E-02
		K-40	5.13E-01	1.21E-01	2.34E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
277485	11/25/2013 - 12/2/2013	I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<2.41E-02	0.00E+00	2.41E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	<5.63E-01	0.00E+00	5.63E-01
278690	12/2/2013 - 12/9/2013	I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<9.46E-03	0.00E+00	9.46E-03
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<7.62E-02	0.00E+00	7.62E-02
		K-40	4.23E-01	7.36E-02	1.34E-01
278963	12/9/2013 - 12/16/2013	I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.25E-02	0.00E+00	1.25E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.30E-01	1.11E-01	2.16E-01
279609	12/16/2013 - 12/23/2013	I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<7.80E-02	0.00E+00	7.80E-02
		K-40	<4.53E-01	0.00E+00	4.53E-01
280087	12/23/2013 - 12/30/2013	I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	3.62E-01	1.33E-01	2.12E-01

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250433	12/31/2012 - 1/7/2013	I-131	<1.57E-02	0.00E+00	1.57E-02
		Cs-134	<6.59E-03	0.00E+00	6.59E-03
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<7.52E-02	0.00E+00	7.52E-02
		K-40	<4.04E-01	0.00E+00	4.04E-01
250563	1/7/2013 - 1/14/2013	I-131	<1.29E-02	0.00E+00	1.29E-02
		Cs-134	<9.93E-03	0.00E+00	9.93E-03
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<6.71E-02	0.00E+00	6.71E-02
		K-40	<4.22E-01	0.00E+00	4.22E-01
250732	1/14/2013 - 1/21/2013	I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<9.43E-02	0.00E+00	9.43E-02
		K-40	3.71E-01	1.08E-01	1.73E-01
250980	1/21/2013 - 1/28/2013	I-131	<1.10E-02	0.00E+00	1.10E-02
		Cs-134	<8.76E-03	0.00E+00	8.76E-03
		Cs-137	<1.08E-02	0.00E+00	1.08E-02
		Be-7	<8.51E-02	0.00E+00	8.51E-02
		K-40	5.07E-01	1.04E-01	1.55E-01
251266	1/28/2013 - 2/4/2013	I-131	<9.30E-03	0.00E+00	9.30E-03
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<7.41E-03	0.00E+00	7.41E-03
		Be-7	<6.98E-02	0.00E+00	6.98E-02
		K-40	<3.28E-01	0.00E+00	3.28E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251596	2/4/2013 - 2/11/2013	I-131	<1.20E-02	0.00E+00	1.20E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<6.47E-02	0.00E+00	6.47E-02
		K-40	3.97E-01	9.93E-02	1.79E-01
252062	2/11/2013 - 2/18/2013	I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<9.51E-03	0.00E+00	9.51E-03
		Cs-137	<8.91E-03	0.00E+00	8.91E-03
		Be-7	<7.34E-02	0.00E+00	7.34E-02
		K-40	<3.99E-01	0.00E+00	3.99E-01
252679	2/18/2013 - 2/25/2013	I-131	<1.46E-02	0.00E+00	1.46E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	7.25E-01	1.56E-01	2.50E-01
253065	2/25/2013 - 3/4/2013	I-131	<1.15E-02	0.00E+00	1.15E-02
		Cs-134	<9.22E-03	0.00E+00	9.22E-03
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<6.71E-02	0.00E+00	6.71E-02
		K-40	4.06E-01	7.41E-02	9.82E-02
253873	3/4/2013 - 3/11/2013	I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<8.12E-03	0.00E+00	8.12E-03
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	4.37E-01	1.21E-01	1.78E-01
254195	3/11/2013 - 3/18/2013	I-131	<1.65E-02	0.00E+00	1.65E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	<4.65E-01	0.00E+00	4.65E-01
254730	3/18/2013 - 3/25/2013	I-131	<8.59E-03	0.00E+00	8.59E-03
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<9.91E-02	0.00E+00	9.91E-02
		K-40	2.64E-01	7.95E-02	1.73E-01
255290	3/25/2013 - 4/1/2013	I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<1.16E-02	0.00E+00	1.16E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	3.30E-01	8.83E-02	1.72E-01
255819	4/1/2013 - 4/8/2013	I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	3.50E-01	1.16E-01	1.74E-01
256053	4/8/2013 - 4/15/2013	I-131	<7.50E-03	0.00E+00	7.50E-03
		Cs-134	<8.42E-03	0.00E+00	8.42E-03
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<7.78E-02	0.00E+00	7.78E-02
		K-40	1.65E-01	1.06E-01	2.27E-01
256321	4/15/2013 - 4/22/2013	I-131	<1.15E-02	0.00E+00	1.15E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256321	4/15/2013 - 4/22/2013	Cs-137	<1.12E-02	0.00E+00	1.12E-02
		Be-7	<5.75E-02	0.00E+00	5.75E-02
		K-40	6.43E-01	9.59E-02	3.86E-02
256588	4/22/2013 - 4/29/2013	I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<4.65E-01	0.00E+00	4.65E-01
257111	4/29/2013 - 5/6/2013	I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<8.31E-03	0.00E+00	8.31E-03
		Cs-137	<1.02E-02	0.00E+00	1.02E-02
		Be-7	<6.66E-02	0.00E+00	6.66E-02
		K-40	5.45E-01	9.05E-02	1.33E-01
257264	5/6/2013 - 5/13/2013	I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<8.97E-03	0.00E+00	8.97E-03
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<7.87E-02	0.00E+00	7.87E-02
		K-40	3.51E-01	8.78E-02	5.93E-02
257711	5/13/2013 - 5/20/2013	I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<6.58E-03	0.00E+00	6.58E-03
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<9.30E-02	0.00E+00	9.30E-02
		K-40	4.42E-01	9.24E-02	1.30E-01
257955	5/20/2013 - 5/28/2013	I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	4.45E-01	1.05E-01	6.68E-02
258190	5/28/2013 - 6/3/2013	I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<2.54E-02	0.00E+00	2.54E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	4.74E-01	1.27E-01	2.56E-01
258537	6/3/2013 - 6/10/2013	I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	3.44E-01	9.94E-02	7.76E-02
259007	6/10/2013 - 6/17/2013	I-131	<1.03E-02	0.00E+00	1.03E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<9.82E-03	0.00E+00	9.82E-03
		Be-7	<7.59E-02	0.00E+00	7.59E-02
		K-40	3.05E-01	7.88E-02	1.88E-01
259555	6/17/2013 - 6/24/2013	I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<6.81E-03	0.00E+00	6.81E-03
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	4.18E-01	9.84E-02	6.27E-02
260189	6/24/2013 - 7/1/2013	I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<7.92E-02	0.00E+00	7.92E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260189	6/24/2013 - 7/1/2013	K-40	<4.46E-01	0.00E+00	4.46E-01
260649	7/1/2013 - 7/8/2013	I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	6.02E-01	1.31E-01	2.73E-01
261612	7/8/2013 - 7/15/2013	I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.40E-02	0.00E+00	1.40E-02
		Be-7	<7.63E-02	0.00E+00	7.63E-02
		K-40	5.13E-01	1.21E-01	3.14E-01
262114	7/15/2013 - 7/22/2013	I-131	<1.00E-02	0.00E+00	1.00E-02
		Cs-134	<9.29E-03	0.00E+00	9.29E-03
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<5.99E-02	0.00E+00	5.99E-02
		K-40	4.08E-01	8.59E-02	1.23E-01
262948	7/22/2013 - 7/29/2013	I-131	<1.29E-02	0.00E+00	1.29E-02
		Cs-134	<8.38E-03	0.00E+00	8.38E-03
		Cs-137	<9.44E-03	0.00E+00	9.44E-03
		Be-7	<6.28E-02	0.00E+00	6.28E-02
		K-40	3.22E-01	1.02E-01	1.46E-01
263357	7/29/2013 - 8/5/2013	I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<4.25E-03	0.00E+00	4.25E-03
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	6.57E-01	1.37E-01	2.14E-01
264015	8/5/2013 - 8/12/2013	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<8.44E-03	0.00E+00	8.44E-03
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<6.56E-02	0.00E+00	6.56E-02
		K-40	<3.55E-01	0.00E+00	3.55E-01
265146	8/12/2013 - 8/19/2013	I-131	<9.67E-03	0.00E+00	9.67E-03
		Cs-134	<7.85E-03	0.00E+00	7.85E-03
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<7.21E-02	0.00E+00	7.21E-02
		K-40	5.70E-01	8.32E-02	3.28E-02
265455	8/19/2013 - 8/26/2013	I-131	<1.59E-02	0.00E+00	1.59E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<7.26E-02	0.00E+00	7.26E-02
		K-40	2.64E-01	7.63E-02	5.96E-02
267141	8/26/2013 - 9/3/2013	I-131	<1.15E-02	0.00E+00	1.15E-02
		Cs-134	<9.13E-03	0.00E+00	9.13E-03
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<8.85E-02	0.00E+00	8.85E-02
		K-40	1.99E-01	9.05E-02	1.36E-01
267591	9/3/2013 - 9/9/2013	I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<2.38E-02	0.00E+00	2.38E-02
		Cs-137	<2.71E-02	0.00E+00	2.71E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	5.31E-01	1.33E-01	3.50E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
268446	9/9/2013 - 9/16/2013	I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	3.67E-01	1.02E-01	2.70E-01
269569	9/16/2013 - 9/23/2013	I-131	<1.09E-02	0.00E+00	1.09E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.08E-02	0.00E+00	1.08E-02
		Be-7	<8.88E-02	0.00E+00	8.88E-02
		K-40	4.41E-01	1.17E-01	1.36E-01
270712	9/23/2013 - 9/30/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	<5.06E-01	0.00E+00	5.06E-01
271437	9/30/2013 - 10/7/2013	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.32E-02	0.00E+00	2.32E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	3.98E-01	1.06E-01	2.98E-01
272044	10/7/2013 - 10/14/2013	I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	3.54E-01	1.26E-01	2.54E-01
272427	10/14/2013 - 10/21/2013	I-131	<1.35E-02	0.00E+00	1.35E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-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	5.01E-01	1.09E-01	1.70E-01
272828	10/21/2013 - 10/28/2013	I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<6.72E-03	0.00E+00	6.72E-03
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	5.24E-01	1.12E-01	2.16E-01
273920	10/28/2013 - 11/4/2013	I-131	<1.26E-02	0.00E+00	1.26E-02
		Cs-134	<7.90E-03	0.00E+00	7.90E-03
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<7.45E-02	0.00E+00	7.45E-02
		K-40	4.64E-01	8.77E-02	1.41E-01
274367	11/4/2013 - 11/11/2013	I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.20E-02	0.00E+00	1.20E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	2.89E-01	1.12E-01	2.93E-01
274881	11/11/2013 - 11/18/2013	I-131	<1.25E-02	0.00E+00	1.25E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<7.03E-02	0.00E+00	7.03E-02
		K-40	4.24E-01	1.03E-01	1.28E-01
276435	11/18/2013 - 11/25/2013	I-131	<1.19E-02	0.00E+00	1.19E-02
		Cs-134	<1.04E-02	0.00E+00	1.04E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276435	11/18/2013 - 11/25/2013	Cs-137	<1.12E-02	0.00E+00	1.12E-02
		Be-7	<6.54E-02	0.00E+00	6.54E-02
		K-40	5.48E-01	9.68E-02	1.62E-01
277486	11/25/2013 - 12/2/2013	I-131	<1.03E-02	0.00E+00	1.03E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.06E-02	0.00E+00	1.06E-02
		Be-7	<7.92E-02	0.00E+00	7.92E-02
		K-40	4.02E-01	9.42E-02	1.45E-01
278694	12/2/2013 - 12/9/2013	I-131	<1.23E-02	0.00E+00	1.23E-02
		Cs-134	<8.20E-03	0.00E+00	8.20E-03
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<7.42E-02	0.00E+00	7.42E-02
		K-40	6.81E-01	1.03E-01	9.21E-02
278967	12/9/2013 - 12/16/2013	I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	2.82E-01	1.18E-01	2.16E-01
279613	12/16/2013 - 12/23/2013	I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<6.71E-03	0.00E+00	6.71E-03
		Cs-137	<7.61E-03	0.00E+00	7.61E-03
		Be-7	<7.30E-02	0.00E+00	7.30E-02
		K-40	6.17E-01	8.64E-02	8.87E-02
280091	12/23/2013 - 12/30/2013	I-131	<1.12E-02	0.00E+00	1.12E-02
		Cs-134	<1.04E-02	0.00E+00	1.04E-02
		Cs-137	<5.98E-03	0.00E+00	5.98E-03
		Be-7	<7.85E-02	0.00E+00	7.85E-02
		K-40	5.32E-01	7.93E-02	8.59E-02

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250430	12/31/2012 - 1/7/2013	I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	4.49E-01	1.03E-01	2.11E-01
250560	1/7/2013 - 1/14/2013	I-131	<1.23E-02	0.00E+00	1.23E-02
		Cs-134	<9.00E-03	0.00E+00	9.00E-03
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<6.16E-02	0.00E+00	6.16E-02
		K-40	<3.88E-01	0.00E+00	3.88E-01
250729	1/14/2013 - 1/21/2013	I-131	<1.05E-02	0.00E+00	1.05E-02
		Cs-134	<8.41E-03	0.00E+00	8.41E-03
		Cs-137	<1.10E-02	0.00E+00	1.10E-02
		Be-7	<1.78E-02	0.00E+00	1.78E-02
		K-40	4.40E-01	9.61E-02	1.86E-01
250977	1/21/2013 - 1/28/2013	I-131	<9.30E-03	0.00E+00	9.30E-03
		Cs-134	<7.96E-03	0.00E+00	7.96E-03
		Cs-137	<9.70E-03	0.00E+00	9.70E-03
		Be-7	<5.76E-02	0.00E+00	5.76E-02
		K-40	3.05E-01	8.68E-02	1.27E-01
251263	1/28/2013 - 2/4/2013	I-131	<1.32E-02	0.00E+00	1.32E-02
		Cs-134	<1.31E-02	0.00E+00	1.31E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251263	1/28/2013 - 2/4/2013	Cs-137	<2.86E-03	0.00E+00	2.86E-03
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	2.24E-01	8.49E-02	2.19E-01
251593	2/4/2013 - 2/11/2013	I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<8.30E-03	0.00E+00	8.30E-03
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<8.96E-02	0.00E+00	8.96E-02
		K-40	5.39E-01	1.01E-01	9.99E-02
252059	2/11/2013 - 2/18/2013	I-131	<1.17E-02	0.00E+00	1.17E-02
		Cs-134	<6.80E-03	0.00E+00	6.80E-03
		Cs-137	<9.58E-03	0.00E+00	9.58E-03
		Be-7	<8.23E-02	0.00E+00	8.23E-02
		K-40	4.01E-01	7.45E-02	9.95E-02
252676	2/18/2013 - 2/25/2013	I-131	<1.38E-02	0.00E+00	1.38E-02
		Cs-134	<6.66E-03	0.00E+00	6.66E-03
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<7.83E-02	0.00E+00	7.83E-02
		K-40	<3.82E-01	0.00E+00	3.82E-01
253062	2/25/2013 - 3/4/2013	I-131	<1.11E-02	0.00E+00	1.11E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<9.02E-02	0.00E+00	9.02E-02
		K-40	3.60E-01	9.71E-02	1.03E-01
253870	3/4/2013 - 3/11/2013	I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<1.40E-02	0.00E+00	1.40E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	3.40E-01	9.10E-02	1.78E-01
254192	3/11/2013 - 3/18/2013	I-131	<8.00E-03	0.00E+00	8.00E-03
		Cs-134	<8.03E-03	0.00E+00	8.03E-03
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<5.22E-02	0.00E+00	5.22E-02
		K-40	3.48E-01	8.44E-02	2.29E-01
254727	3/18/2013 - 3/25/2013	I-131	<1.10E-02	0.00E+00	1.10E-02
		Cs-134	<7.52E-03	0.00E+00	7.52E-03
		Cs-137	<9.48E-03	0.00E+00	9.48E-03
		Be-7	<5.91E-02	0.00E+00	5.91E-02
		K-40	4.21E-01	8.70E-02	1.12E-01
255287	3/25/2013 - 4/1/2013	I-131	<1.50E-02	0.00E+00	1.50E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<9.54E-02	0.00E+00	9.54E-02
		K-40	3.52E-01	1.14E-01	2.11E-01
255816	4/1/2013 - 4/8/2013	I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	<5.71E-01	0.00E+00	5.71E-01
256050	4/8/2013 - 4/15/2013	I-131	<1.16E-02	0.00E+00	1.16E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<9.74E-03	0.00E+00	9.74E-03
		Be-7	<8.40E-02	0.00E+00	8.40E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256050	4/8/2013 - 4/15/2013	K-40	4.47E-01	1.02E-01	1.04E-01
256318	4/15/2013 - 4/22/2013	I-131	<1.43E-02	0.00E+00	1.43E-02
		Cs-134	<1.28E-02	0.00E+00	1.28E-02
		Cs-137	<8.20E-03	0.00E+00	8.20E-03
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	<3.70E-01	0.00E+00	3.70E-01
256585	4/22/2013 - 4/29/2013	I-131	<1.25E-02	0.00E+00	1.25E-02
		Cs-134	<8.28E-03	0.00E+00	8.28E-03
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<7.86E-02	0.00E+00	7.86E-02
		K-40	<3.68E-01	0.00E+00	3.68E-01
257108	4/29/2013 - 5/6/2013	I-131	<1.38E-02	0.00E+00	1.38E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<7.76E-02	0.00E+00	7.76E-02
		K-40	<4.17E-01	0.00E+00	4.17E-01
257261	5/6/2013 - 5/13/2013	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<1.25E-02	0.00E+00	1.25E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	3.70E-01	9.02E-02	1.69E-01
257708	5/13/2013 - 5/20/2013	I-131	<1.26E-02	0.00E+00	1.26E-02
		Cs-134	<1.10E-02	0.00E+00	1.10E-02
		Cs-137	<7.96E-03	0.00E+00	7.96E-03
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	4.91E-01	1.00E-01	5.53E-02
257952	5/20/2013 - 5/28/2013	I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<6.72E-02	0.00E+00	6.72E-02
		K-40	3.01E-01	1.04E-01	1.86E-01
258187	5/28/2013 - 6/3/2013	I-131	<3.12E-02	0.00E+00	3.12E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
		K-40	3.99E-01	1.49E-01	3.27E-01
258534	6/3/2013 - 6/10/2013	I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	<3.96E-01	0.00E+00	3.96E-01
259004	6/10/2013 - 6/17/2013	I-131	<9.34E-03	0.00E+00	9.34E-03
		Cs-134	<4.60E-03	0.00E+00	4.60E-03
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<8.31E-02	0.00E+00	8.31E-02
		K-40	4.55E-01	7.92E-02	3.73E-02
259552	6/17/2013 - 6/24/2013	I-131	<1.23E-02	0.00E+00	1.23E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<9.67E-03	0.00E+00	9.67E-03
		Be-7	<7.84E-02	0.00E+00	7.84E-02
		K-40	5.26E-01	8.87E-02	1.07E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260186	6/24/2013 - 7/1/2013	I-131	<1.05E-02	0.00E+00	1.05E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<8.84E-03	0.00E+00	8.84E-03
		Be-7	<8.17E-02	0.00E+00	8.17E-02
		K-40	3.62E-01	7.25E-02	3.92E-02
260646	7/1/2013 - 7/8/2013	I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	4.09E-01	1.41E-01	2.72E-01
261609	7/8/2013 - 7/15/2013	I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.13E-02	0.00E+00	1.13E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	4.84E-01	1.18E-01	2.14E-01
262111	7/15/2013 - 7/22/2013	I-131	<1.22E-02	0.00E+00	1.22E-02
		Cs-134	<8.26E-03	0.00E+00	8.26E-03
		Cs-137	<7.77E-03	0.00E+00	7.77E-03
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	1.64E-01	7.47E-02	1.86E-01
262945	7/22/2013 - 7/29/2013	I-131	<1.06E-02	0.00E+00	1.06E-02
		Cs-134	<8.49E-03	0.00E+00	8.49E-03
		Cs-137	<1.07E-02	0.00E+00	1.07E-02
		Be-7	<8.74E-02	0.00E+00	8.74E-02
		K-40	4.07E-01	8.69E-02	1.26E-01
263354	7/29/2013 - 8/5/2013	I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<8.78E-03	0.00E+00	8.78E-03
		Cs-137	<7.94E-03	0.00E+00	7.94E-03
		Be-7	<6.85E-02	0.00E+00	6.85E-02
		K-40	5.69E-01	8.39E-02	3.34E-02
264012	8/5/2013 - 8/12/2013	I-131	<9.36E-03	0.00E+00	9.36E-03
		Cs-134	<1.04E-02	0.00E+00	1.04E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<7.79E-02	0.00E+00	7.79E-02
		K-40	3.73E-01	7.18E-02	9.82E-02
265143	8/12/2013 - 8/19/2013	I-131	<1.80E-02	0.00E+00	1.80E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<9.01E-02	0.00E+00	9.01E-02
		K-40	<3.32E-01	0.00E+00	3.32E-01
265452	8/19/2013 - 8/26/2013	I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<2.04E-02	0.00E+00	2.04E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	3.50E-01	1.01E-01	3.60E-01
267138	8/26/2013 - 9/3/2013	I-131	<1.76E-02	0.00E+00	1.76E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.02E-02	0.00E+00	1.02E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	3.01E-01	8.69E-02	6.78E-02
267588	9/3/2013 - 9/9/2013	I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267588	9/3/2013 - 9/9/2013	Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	4.98E-01	1.29E-01	8.97E-02
268443	9/9/2013 - 9/16/2013	I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.40E-02	0.00E+00	1.40E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
269566	9/16/2013 - 9/23/2013	K-40	<5.56E-01	0.00E+00	5.56E-01
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
270709	9/23/2013 - 9/30/2013	Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	2.61E-01	1.15E-01	2.74E-01
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
271434	9/30/2013 - 10/7/2013	Cs-137	<2.24E-02	0.00E+00	2.24E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	4.90E-01	1.19E-01	3.58E-01
		I-131	<2.08E-02	0.00E+00	2.08E-02
272041	10/7/2013 - 10/14/2013	Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	5.73E-01	1.28E-01	3.35E-01
272041	10/7/2013 - 10/14/2013	I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
272424	10/14/2013 - 10/21/2013	K-40	5.06E-01	1.67E-01	3.62E-01
		I-131	<1.15E-02	0.00E+00	1.15E-02
		Cs-134	<9.64E-03	0.00E+00	9.64E-03
		Cs-137	<1.12E-02	0.00E+00	1.12E-02
272825	10/21/2013 - 10/28/2013	Be-7	<8.08E-02	0.00E+00	8.08E-02
		K-40	5.02E-02	8.17E-02	1.58E-01
		I-131	<1.03E-02	0.00E+00	1.03E-02
		Cs-134	<7.40E-03	0.00E+00	7.40E-03
273917	10/28/2013 - 11/4/2013	Cs-137	<9.90E-03	0.00E+00	9.90E-03
		Be-7	<6.86E-02	0.00E+00	6.86E-02
		K-40	5.44E-01	8.12E-02	3.27E-02
		I-131	<1.13E-02	0.00E+00	1.13E-02
274364	11/4/2013 - 11/11/2013	Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<7.09E-02	0.00E+00	7.09E-02
		K-40	3.87E-01	9.12E-02	2.30E-01
274364	11/4/2013 - 11/11/2013	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
274878	11/11/2013 - 11/18/2013	K-40	3.74E-01	1.32E-01	2.01E-01
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
274878	11/11/2013 - 11/18/2013	Be-7	<1.40E-01	0.00E+00	1.40E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274878	11/11/2013 - 11/18/2013	K-40	3.12E-01	1.28E-01	2.61E-01
276432	11/18/2013 - 11/25/2013	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.84E-01	0.00E+00	1.84E-01
		K-40	6.51E-01	1.36E-01	7.65E-02
277487	11/25/2013 - 12/2/2013	I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<5.71E-02	0.00E+00	5.71E-02
		K-40	3.93E-01	9.27E-02	5.90E-02
278691	12/2/2013 - 12/9/2013	I-131	<1.09E-02	0.00E+00	1.09E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<8.48E-03	0.00E+00	8.48E-03
		Be-7	<6.77E-02	0.00E+00	6.77E-02
		K-40	4.86E-01	8.91E-02	1.16E-01
278964	12/9/2013 - 12/16/2013	I-131	<1.50E-02	0.00E+00	1.50E-02
		Cs-134	<8.95E-03	0.00E+00	8.95E-03
		Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<8.88E-02	0.00E+00	8.88E-02
		K-40	5.78E-01	8.71E-02	9.82E-02
279610	12/16/2013 - 12/23/2013	I-131	<1.70E-02	0.00E+00	1.70E-02
		Cs-134	<8.33E-03	0.00E+00	8.33E-03
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<9.08E-02	0.00E+00	9.08E-02
		K-40	3.94E-01	8.80E-02	5.32E-02
280088	12/23/2013 - 12/30/2013	I-131	<1.16E-02	0.00E+00	1.16E-02
		Cs-134	<4.26E-03	0.00E+00	4.26E-03
		Cs-137	<1.09E-02	0.00E+00	1.09E-02
		Be-7	<7.06E-02	0.00E+00	7.06E-02
		K-40	3.64E-01	8.82E-02	5.78E-02

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250431	12/31/2012 - 1/7/2013	I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<9.35E-03	0.00E+00	9.35E-03
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<6.20E-02	0.00E+00	6.20E-02
		K-40	3.16E-01	6.59E-02	1.00E-01
250561	1/7/2013 - 1/14/2013	I-131	<1.58E-02	0.00E+00	1.58E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.13E-01	1.00E-01	1.79E-01
250730	1/14/2013 - 1/21/2013	I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	4.86E-01	1.06E-01	1.73E-01
250978	1/21/2013 - 1/28/2013	I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<1.07E-02	0.00E+00	1.07E-02
		Be-7	<8.85E-02	0.00E+00	8.85E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250978	1/21/2013 - 1/28/2013	K-40	2.32E-01	6.99E-02	5.70E-02
251264	1/28/2013 - 2/4/2013	I-131	<1.25E-02	0.00E+00	1.25E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<6.76E-02	0.00E+00	6.76E-02
		K-40	3.68E-01	7.22E-02	1.30E-01
251594	2/4/2013 - 2/11/2013	I-131	<8.19E-03	0.00E+00	8.19E-03
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<7.23E-02	0.00E+00	7.23E-02
		K-40	4.44E-01	9.93E-02	1.88E-01
252060	2/11/2013 - 2/18/2013	I-131	<1.46E-02	0.00E+00	1.46E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<8.60E-02	0.00E+00	8.60E-02
		K-40	6.61E-01	9.74E-02	1.06E-01
252677	2/18/2013 - 2/25/2013	I-131	<1.20E-02	0.00E+00	1.20E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<5.21E-02	0.00E+00	5.21E-02
		K-40	2.47E-01	7.31E-02	1.71E-01
253063	2/25/2013 - 3/4/2013	I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	3.65E-01	1.42E-01	2.14E-01
253871	3/4/2013 - 3/11/2013	I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	4.04E-01	9.80E-02	1.74E-01
254193	3/11/2013 - 3/18/2013	I-131	<1.09E-02	0.00E+00	1.09E-02
		Cs-134	<1.21E-02	0.00E+00	1.21E-02
		Cs-137	<9.52E-03	0.00E+00	9.52E-03
		Be-7	<8.68E-02	0.00E+00	8.68E-02
		K-40	3.88E-01	9.43E-02	1.32E-01
254728	3/18/2013 - 3/25/2013	I-131	<1.47E-02	0.00E+00	1.47E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.15E-02	0.00E+00	1.15E-02
		Be-7	<6.76E-02	0.00E+00	6.76E-02
		K-40	<3.81E-01	0.00E+00	3.81E-01
255288	3/25/2013 - 4/1/2013	I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	5.69E-01	1.16E-01	6.41E-02
255817	4/1/2013 - 4/8/2013	I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<8.79E-02	0.00E+00	8.79E-02
		K-40	4.56E-01	1.20E-01	2.81E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256051	4/8/2013 - 4/15/2013	I-131	<7.34E-03	0.00E+00	7.34E-03
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<7.59E-02	0.00E+00	7.59E-02
		K-40	4.16E-01	7.59E-02	9.99E-02
256319	4/15/2013 - 4/22/2013	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.06E-02	0.00E+00	1.06E-02
		Be-7	<9.02E-02	0.00E+00	9.02E-02
		K-40	6.04E-01	9.00E-02	1.40E-01
256586	4/22/2013 - 4/29/2013	I-131	<1.28E-02	0.00E+00	1.28E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<9.22E-02	0.00E+00	9.22E-02
		K-40	4.86E-01	8.33E-02	3.86E-02
257109	4/29/2013 - 5/6/2013	I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<9.54E-02	0.00E+00	9.54E-02
		K-40	2.67E-01	1.07E-01	2.57E-01
257262	5/6/2013 - 5/13/2013	I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<8.67E-02	0.00E+00	8.67E-02
		K-40	3.38E-01	9.04E-02	1.72E-01
257709	5/13/2013 - 5/20/2013	I-131	<1.53E-02	0.00E+00	1.53E-02
		Cs-134	<9.55E-03	0.00E+00	9.55E-03
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<6.88E-02	0.00E+00	6.88E-02
		K-40	3.07E-01	1.08E-01	1.33E-01
257953	5/20/2013 - 5/28/2013	I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	5.22E-01	1.14E-01	2.37E-01
258188	5/28/2013 - 6/3/2013	I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<2.14E-02	0.00E+00	2.14E-02
		Cs-137	<2.58E-02	0.00E+00	2.58E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	<6.10E-01	0.00E+00	6.10E-01
258535	6/3/2013 - 6/10/2013	I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	<4.14E-01	0.00E+00	4.14E-01
259005	6/10/2013 - 6/17/2013	I-131	<1.05E-02	0.00E+00	1.05E-02
		Cs-134	<6.81E-03	0.00E+00	6.81E-03
		Cs-137	<7.53E-03	0.00E+00	7.53E-03
		Be-7	<7.45E-02	0.00E+00	7.45E-02
		K-40	4.48E-01	6.16E-02	8.29E-02
259553	6/17/2013 - 6/24/2013	I-131	<1.24E-02	0.00E+00	1.24E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
259553	6/17/2013 - 6/24/2013	Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<8.09E-02	0.00E+00	8.09E-02
		K-40	4.88E-01	9.96E-02	5.49E-02
260187	6/24/2013 - 7/1/2013	I-131	<1.49E-02	0.00E+00	1.49E-02
		Cs-134	<9.33E-03	0.00E+00	9.33E-03
		Cs-137	<1.08E-02	0.00E+00	1.08E-02
		Be-7	<8.64E-02	0.00E+00	8.64E-02
		K-40	5.33E-01	9.70E-02	1.30E-01
260647	7/1/2013 - 7/8/2013	I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	4.62E-01	1.34E-01	2.73E-01
261610	7/8/2013 - 7/15/2013	I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	6.27E-01	1.34E-01	2.14E-01
262112	7/15/2013 - 7/22/2013	I-131	<1.36E-02	0.00E+00	1.36E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<9.26E-03	0.00E+00	9.26E-03
		Be-7	<7.54E-02	0.00E+00	7.54E-02
		K-40	7.47E-01	9.56E-02	1.11E-01
262946	7/22/2013 - 7/29/2013	I-131	<1.06E-02	0.00E+00	1.06E-02
		Cs-134	<8.56E-03	0.00E+00	8.56E-03
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	3.25E-01	1.05E-01	1.79E-01
263355	7/29/2013 - 8/5/2013	I-131	<1.02E-02	0.00E+00	1.02E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<7.94E-02	0.00E+00	7.94E-02
		K-40	<3.84E-01	0.00E+00	3.84E-01
264013	8/5/2013 - 8/12/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
		K-40	2.06E-01	1.11E-01	2.44E-01
265144	8/12/2013 - 8/19/2013	I-131	<1.18E-02	0.00E+00	1.18E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<9.84E-03	0.00E+00	9.84E-03
		Be-7	<9.58E-02	0.00E+00	9.58E-02
		K-40	4.27E-01	9.31E-02	5.49E-02
265453	8/19/2013 - 8/26/2013	I-131	<9.21E-03	0.00E+00	9.21E-03
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<9.56E-02	0.00E+00	9.56E-02
		K-40	3.04E-01	8.11E-02	2.12E-01
267139	8/26/2013 - 9/3/2013	I-131	<8.88E-03	0.00E+00	8.88E-03
		Cs-134	<8.00E-03	0.00E+00	8.00E-03
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<6.59E-02	0.00E+00	6.59E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267139	8/26/2013 - 9/3/2013	K-40	4.34E-01	9.06E-02	1.37E-01
267589	9/3/2013 - 9/9/2013	I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.18E-02	0.00E+00	2.18E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	6.41E-01	1.77E-01	3.51E-01
268444	9/9/2013 - 9/16/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<7.62E-02	0.00E+00	7.62E-02
		K-40	<5.71E-01	0.00E+00	5.71E-01
269567	9/16/2013 - 9/23/2013	I-131	<1.35E-02	0.00E+00	1.35E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<9.20E-03	0.00E+00	9.20E-03
		Be-7	<7.82E-02	0.00E+00	7.82E-02
		K-40	4.14E-01	7.32E-02	3.50E-02
270710	9/23/2013 - 9/30/2013	I-131	<3.16E-02	0.00E+00	3.16E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	2.90E-01	9.17E-02	3.94E-01
271435	9/30/2013 - 10/7/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.08E-02	0.00E+00	2.08E-02
		Cs-137	<2.03E-02	0.00E+00	2.03E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	<5.30E-01	0.00E+00	5.30E-01
272042	10/7/2013 - 10/14/2013	I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	3.43E-01	1.20E-01	2.03E-01
272425	10/14/2013 - 10/21/2013	I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<7.74E-02	0.00E+00	7.74E-02
		K-40	4.69E-01	9.58E-02	1.46E-01
272826	10/21/2013 - 10/28/2013	I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<5.33E-02	0.00E+00	5.33E-02
		K-40	4.21E-01	1.05E-01	1.44E-01
273918	10/28/2013 - 11/4/2013	I-131	<1.05E-02	0.00E+00	1.05E-02
		Cs-134	<9.85E-03	0.00E+00	9.85E-03
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<9.40E-02	0.00E+00	9.40E-02
		K-40	5.17E-01	9.52E-02	1.35E-01
274365	11/4/2013 - 11/11/2013	I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	<5.59E-01	0.00E+00	5.59E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274879	11/11/2013 - 11/18/2013	I-131	<1.48E-02	0.00E+00	1.48E-02
		Cs-134	<7.56E-03	0.00E+00	7.56E-03
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<6.85E-02	0.00E+00	6.85E-02
		K-40	4.74E-01	9.06E-02	1.63E-01
276433	11/18/2013 - 11/25/2013	I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.18E-02	0.00E+00	1.18E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	2.82E-01	8.13E-02	6.34E-02
277488	11/25/2013 - 12/2/2013	I-131	<1.05E-02	0.00E+00	1.05E-02
		Cs-134	<1.08E-02	0.00E+00	1.08E-02
		Cs-137	<9.88E-03	0.00E+00	9.88E-03
		Be-7	<8.61E-02	0.00E+00	8.61E-02
		K-40	8.23E-01	1.04E-01	3.53E-02
278692	12/2/2013 - 12/9/2013	I-131	<1.34E-02	0.00E+00	1.34E-02
		Cs-134	<9.50E-03	0.00E+00	9.50E-03
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<7.86E-02	0.00E+00	7.86E-02
		K-40	4.36E-01	8.72E-02	9.25E-02
278965	12/9/2013 - 12/16/2013	I-131	<1.22E-02	0.00E+00	1.22E-02
		Cs-134	<6.53E-03	0.00E+00	6.53E-03
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<9.93E-02	0.00E+00	9.93E-02
		K-40	2.07E-01	1.12E-01	2.33E-01
279611	12/16/2013 - 12/23/2013	I-131	<1.57E-02	0.00E+00	1.57E-02
		Cs-134	<7.28E-03	0.00E+00	7.28E-03
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<9.50E-02	0.00E+00	9.50E-02
		K-40	4.34E-01	9.70E-02	5.86E-02
280089	12/23/2013 - 12/30/2013	I-131	<9.36E-03	0.00E+00	9.36E-03
		Cs-134	<1.08E-02	0.00E+00	1.08E-02
		Cs-137	<1.06E-02	0.00E+00	1.06E-02
		Be-7	<7.13E-02	0.00E+00	7.13E-02
		K-40	5.70E-01	8.60E-02	3.50E-02

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250432	12/31/2012 - 1/7/2013	I-131	<1.34E-02	0.00E+00	1.34E-02
		Cs-134	<5.96E-03	0.00E+00	5.96E-03
		Cs-137	<2.74E-03	0.00E+00	2.74E-03
		Be-7	<8.24E-02	0.00E+00	8.24E-02
		K-40	<3.61E-01	0.00E+00	3.61E-01
250562	1/7/2013 - 1/14/2013	I-131	<1.74E-02	0.00E+00	1.74E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	3.30E-01	8.81E-02	2.13E-01
250731	1/14/2013 - 1/21/2013	I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<9.40E-03	0.00E+00	9.40E-03
		Cs-137	<1.08E-02	0.00E+00	1.08E-02
		Be-7	<7.46E-02	0.00E+00	7.46E-02
		K-40	4.45E-01	1.10E-01	1.59E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250979	1/21/2013 - 1/28/2013	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	4.72E-01	1.28E-01	2.21E-01
251265	1/28/2013 - 2/4/2013	I-131	<1.07E-02	0.00E+00	1.07E-02
		Cs-134	<9.93E-03	0.00E+00	9.93E-03
		Cs-137	<6.88E-03	0.00E+00	6.88E-03
		Be-7	<6.74E-02	0.00E+00	6.74E-02
		K-40	3.52E-01	6.91E-02	3.66E-02
251595	2/4/2013 - 2/11/2013	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<9.43E-03	0.00E+00	9.43E-03
		Cs-137	<9.14E-03	0.00E+00	9.14E-03
		Be-7	<5.87E-02	0.00E+00	5.87E-02
		K-40	2.49E-01	8.05E-02	1.83E-01
252061	2/11/2013 - 2/18/2013	I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.27E-02	0.00E+00	1.27E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<5.81E-02	0.00E+00	5.81E-02
		K-40	3.06E-01	7.91E-02	2.25E-01
252678	2/18/2013 - 2/25/2013	I-131	<1.27E-02	0.00E+00	1.27E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<8.85E-03	0.00E+00	8.85E-03
		Be-7	<6.70E-02	0.00E+00	6.70E-02
		K-40	2.36E-01	6.76E-02	1.15E-01
253064	2/25/2013 - 3/4/2013	I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	5.56E-01	1.14E-01	2.00E-01
253872	3/4/2013 - 3/11/2013	I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<9.74E-02	0.00E+00	9.74E-02
		K-40	4.00E-01	1.40E-01	1.78E-01
254194	3/11/2013 - 3/18/2013	I-131	<1.21E-02	0.00E+00	1.21E-02
		Cs-134	<5.85E-03	0.00E+00	5.85E-03
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<5.23E-02	0.00E+00	5.23E-02
		K-40	4.07E-01	8.86E-02	1.27E-01
254729	3/18/2013 - 3/25/2013	I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.37E-02	0.00E+00	1.37E-02
		Be-7	<9.14E-02	0.00E+00	9.14E-02
		K-40	5.69E-01	8.99E-02	1.33E-01
255289	3/25/2013 - 4/1/2013	I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<9.91E-03	0.00E+00	9.91E-03
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	4.44E-01	1.02E-01	2.77E-01
255818	4/1/2013 - 4/8/2013	I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.19E-02	0.00E+00	1.19E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255818	4/1/2013 - 4/8/2013	Cs-137	<1.22E-02	0.00E+00	1.22E-02
		Be-7	<9.75E-02	0.00E+00	9.75E-02
		K-40	4.63E-01	1.32E-01	2.56E-01
256052	4/8/2013 - 4/15/2013	I-131	<1.61E-02	0.00E+00	1.61E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	<3.98E-01	0.00E+00	3.98E-01
256320	4/15/2013 - 4/22/2013	I-131	<1.48E-02	0.00E+00	1.48E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	2.34E-01	9.45E-02	6.39E-02
256587	4/22/2013 - 4/29/2013	I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<4.13E-01	0.00E+00	4.13E-01
257110	4/29/2013 - 5/6/2013	I-131	<1.29E-02	0.00E+00	1.29E-02
		Cs-134	<9.36E-03	0.00E+00	9.36E-03
		Cs-137	<8.16E-03	0.00E+00	8.16E-03
		Be-7	<6.61E-02	0.00E+00	6.61E-02
		K-40	2.95E-01	6.43E-02	3.79E-02
257263	5/6/2013 - 5/13/2013	I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<9.52E-03	0.00E+00	9.52E-03
		Cs-137	<8.82E-03	0.00E+00	8.82E-03
		Be-7	<6.76E-02	0.00E+00	6.76E-02
		K-40	<4.50E-01	0.00E+00	4.50E-01
257710	5/13/2013 - 5/20/2013	I-131	<1.56E-02	0.00E+00	1.56E-02
		Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<6.87E-02	0.00E+00	6.87E-02
		K-40	3.30E-01	6.74E-02	1.50E-01
257954	5/20/2013 - 5/28/2013	I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	3.96E-01	9.89E-02	2.36E-01
258189	5/28/2013 - 6/3/2013	I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
		K-40	<6.16E-01	0.00E+00	6.16E-01
258536	6/3/2013 - 6/10/2013	I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	<5.19E-01	0.00E+00	5.19E-01
259006	6/10/2013 - 6/17/2013	I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<2.50E-02	0.00E+00	2.50E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
259006	6/10/2013 - 6/17/2013	K-40	<6.51E-01	0.00E+00	6.51E-01
259554	6/17/2013 - 6/24/2013	I-131	<1.41E-02	0.00E+00	1.41E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<7.90E-02	0.00E+00	7.90E-02
		K-40	5.20E-01	8.22E-02	1.18E-01
260188	6/24/2013 - 7/1/2013	I-131	<7.43E-03	0.00E+00	7.43E-03
		Cs-134	<7.52E-03	0.00E+00	7.52E-03
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<6.05E-02	0.00E+00	6.05E-02
		K-40	<4.88E-01	0.00E+00	4.88E-01
260648	7/1/2013 - 7/8/2013	I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	<6.03E-01	0.00E+00	6.03E-01
261611	7/8/2013 - 7/15/2013	I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	4.27E-01	1.10E-01	7.69E-02
262113	7/15/2013 - 7/22/2013	I-131	<1.83E-02	0.00E+00	1.83E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	4.45E-01	1.11E-01	2.92E-01
262947	7/22/2013 - 7/29/2013	I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<1.11E-02	0.00E+00	1.11E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<7.47E-02	0.00E+00	7.47E-02
		K-40	6.05E-01	1.05E-01	1.66E-01
263356	7/29/2013 - 8/5/2013	I-131	<1.18E-02	0.00E+00	1.18E-02
		Cs-134	<1.13E-02	0.00E+00	1.13E-02
		Cs-137	<9.71E-03	0.00E+00	9.71E-03
		Be-7	<7.44E-02	0.00E+00	7.44E-02
		K-40	4.05E-01	8.89E-02	1.00E-01
264014	8/5/2013 - 8/12/2013	I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.37E-02	0.00E+00	1.37E-02
		Be-7	<1.79E-01	0.00E+00	1.79E-01
		K-40	3.26E-01	1.24E-01	7.70E-02
265145	8/12/2013 - 8/19/2013	I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<9.20E-03	0.00E+00	9.20E-03
		Cs-137	<8.60E-03	0.00E+00	8.60E-03
		Be-7	<7.13E-02	0.00E+00	7.13E-02
		K-40	5.09E-01	7.85E-02	3.28E-02
265454	8/19/2013 - 8/26/2013	I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<8.67E-03	0.00E+00	8.67E-03
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<9.41E-02	0.00E+00	9.41E-02
		K-40	4.19E-01	9.60E-02	5.96E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267140	8/26/2013 - 9/3/2013	I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.12E-02	0.00E+00	1.12E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.00E-01	8.65E-02	1.88E-01
267590	9/3/2013 - 9/9/2013	I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<2.44E-02	0.00E+00	2.44E-02
		Cs-137	<2.56E-02	0.00E+00	2.56E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	7.64E-01	1.59E-01	3.02E-01
268445	9/9/2013 - 9/16/2013	I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<6.96E-01	0.00E+00	6.96E-01
269568	9/16/2013 - 9/23/2013	I-131	<1.43E-02	0.00E+00	1.43E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<9.59E-02	0.00E+00	9.59E-02
		K-40	3.23E-01	1.04E-01	1.80E-01
270711	9/23/2013 - 9/30/2013	I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<2.72E-02	0.00E+00	2.72E-02
		Be-7	<1.75E-01	0.00E+00	1.75E-01
		K-40	6.10E-01	1.33E-01	3.23E-01
271436	9/30/2013 - 10/7/2013	I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<6.07E-01	0.00E+00	6.07E-01
272043	10/7/2013 - 10/14/2013	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	<4.66E-01	0.00E+00	4.66E-01
272426	10/14/2013 - 10/21/2013	I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<9.51E-03	0.00E+00	9.51E-03
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	<4.92E-01	0.00E+00	4.92E-01
272827	10/21/2013 - 10/28/2013	I-131	<1.28E-02	0.00E+00	1.28E-02
		Cs-134	<1.20E-02	0.00E+00	1.20E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	2.82E-01	7.83E-02	5.87E-02
273919	10/28/2013 - 11/4/2013	I-131	<7.78E-03	0.00E+00	7.78E-03
		Cs-134	<8.72E-03	0.00E+00	8.72E-03
		Cs-137	<3.15E-03	0.00E+00	3.15E-03
		Be-7	<9.58E-02	0.00E+00	9.58E-02
		K-40	5.18E-01	1.06E-01	5.83E-02
274366	11/4/2013 - 11/11/2013	I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274366	11/4/2013 - 11/11/2013	Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.74E-01	0.00E+00	1.74E-01
		K-40	4.87E-01	1.56E-01	2.53E-01
274880	11/11/2013 - 11/18/2013	I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	5.82E-01	1.30E-01	2.79E-01
276434	11/18/2013 - 11/25/2013	I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<9.29E-02	0.00E+00	9.29E-02
		K-40	3.15E-01	1.01E-01	1.84E-01
277489	11/25/2013 - 12/2/2013	I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	4.80E-01	1.41E-01	2.59E-01
278693	12/2/2013 - 12/9/2013	I-131	<1.49E-02	0.00E+00	1.49E-02
		Cs-134	<9.51E-03	0.00E+00	9.51E-03
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<7.80E-02	0.00E+00	7.80E-02
		K-40	4.62E-01	8.87E-02	1.16E-01
278966	12/9/2013 - 12/16/2013	I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	7.20E-01	1.32E-01	1.72E-01
279612	12/16/2013 - 12/23/2013	I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<1.27E-02	0.00E+00	1.27E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<8.96E-02	0.00E+00	8.96E-02
		K-40	<6.49E-01	0.00E+00	6.49E-01
280090	12/23/2013 - 12/30/2013	I-131	<1.82E-02	0.00E+00	1.82E-02
		Cs-134	<2.92E-03	0.00E+00	2.92E-03
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	5.22E-01	1.11E-01	6.41E-02

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250454	12/31/2012 - 1/7/2013	I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.07E-02	0.00E+00	1.07E-02
		Be-7	<9.34E-02	0.00E+00	9.34E-02
		K-40	4.33E-01	9.92E-02	6.15E-02
250584	1/7/2013 - 1/14/2013	I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	<4.88E-01	0.00E+00	4.88E-01
250753	1/14/2013 - 1/21/2013	I-131	<6.94E-03	0.00E+00	6.94E-03
		Cs-134	<7.90E-03	0.00E+00	7.90E-03



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250753	1/14/2013 - 1/21/2013	Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<5.76E-02	0.00E+00	5.76E-02
		K-40	3.99E-01	7.41E-02	1.26E-01
251001	1/21/2013 - 1/28/2013	I-131	<1.36E-02	0.00E+00	1.36E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	3.94E-01	9.57E-02	2.22E-01
251287	1/28/2013 - 2/4/2013	I-131	<1.06E-02	0.00E+00	1.06E-02
		Cs-134	<1.00E-02	0.00E+00	1.00E-02
		Cs-137	<1.25E-02	0.00E+00	1.25E-02
		Be-7	<7.79E-02	0.00E+00	7.79E-02
		K-40	5.74E-01	1.02E-01	1.81E-01
251617	2/4/2013 - 2/11/2013	I-131	<1.26E-02	0.00E+00	1.26E-02
		Cs-134	<1.16E-02	0.00E+00	1.16E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<7.67E-02	0.00E+00	7.67E-02
		K-40	3.32E-01	9.55E-02	1.08E-01
252083	2/11/2013 - 2/18/2013	I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.20E-02	0.00E+00	1.20E-02
		Cs-137	<1.05E-02	0.00E+00	1.05E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	3.38E-01	9.03E-02	1.72E-01
252711	2/18/2013 - 2/25/2013	I-131	<1.30E-02	0.00E+00	1.30E-02
		Cs-134	<9.07E-03	0.00E+00	9.07E-03
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<5.86E-02	0.00E+00	5.86E-02
		K-40	3.28E-01	8.47E-02	2.02E-01
253092	2/25/2013 - 3/4/2013	I-131	<1.16E-02	0.00E+00	1.16E-02
		Cs-134	<8.57E-03	0.00E+00	8.57E-03
		Cs-137	<9.50E-03	0.00E+00	9.50E-03
		Be-7	<7.14E-02	0.00E+00	7.14E-02
		K-40	4.19E-01	7.53E-02	3.66E-02
253895	3/4/2013 - 3/11/2013	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	4.36E-01	1.21E-01	1.78E-01
254217	3/11/2013 - 3/18/2013	I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<9.65E-03	0.00E+00	9.65E-03
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<7.22E-02	0.00E+00	7.22E-02
		K-40	1.08E-01	7.64E-02	1.85E-01
254752	3/18/2013 - 3/25/2013	I-131	<8.56E-03	0.00E+00	8.56E-03
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.16E-02	0.00E+00	1.16E-02
		Be-7	<6.29E-02	0.00E+00	6.29E-02
		K-40	3.49E-01	8.73E-02	1.57E-01
255313	3/25/2013 - 4/1/2013	I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID	Sample Dates	Nuclide	Activity	1 Sigma Error	LLD
255313	3/25/2013 - 4/1/2013	K-40	2.17E-01	8.76E-02	5.92E-02
255841	4/1/2013 - 4/8/2013	I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	3.60E-01	9.30E-02	1.74E-01
256075	4/8/2013 - 4/15/2013	I-131	<1.04E-02	0.00E+00	1.04E-02
		Cs-134	<9.45E-03	0.00E+00	9.45E-03
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<8.71E-02	0.00E+00	8.71E-02
		K-40	5.24E-01	8.40E-02	9.63E-02
256353	4/15/2013 - 4/22/2013	I-131	<8.84E-03	0.00E+00	8.84E-03
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	4.64E-02	3.28E-02	1.24E-01
		K-40	<3.94E-01	0.00E+00	3.94E-01
256620	4/22/2013 - 4/29/2013	I-131	<9.90E-03	0.00E+00	9.90E-03
		Cs-134	<7.31E-03	0.00E+00	7.31E-03
		Cs-137	<1.06E-02	0.00E+00	1.06E-02
		Be-7	<8.50E-02	0.00E+00	8.50E-02
		K-40	3.59E-01	9.48E-02	1.54E-01
257143	4/29/2013 - 5/6/2013	I-131	<1.54E-02	0.00E+00	1.54E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	5.14E-01	1.07E-01	1.63E-01
257299	5/6/2013 - 5/13/2013	I-131	<1.19E-02	0.00E+00	1.19E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<7.21E-02	0.00E+00	7.21E-02
		K-40	2.41E-01	7.28E-02	5.93E-02
257746	5/13/2013 - 5/20/2013	I-131	<9.03E-03	0.00E+00	9.03E-03
		Cs-134	<1.05E-02	0.00E+00	1.05E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	3.94E-01	9.29E-02	5.92E-02
257990	5/20/2013 - 5/28/2013	I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	3.16E-01	1.14E-01	2.21E-01
258225	5/28/2013 - 6/3/2013	I-131	<3.08E-02	0.00E+00	3.08E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<2.46E-01	0.00E+00	2.46E-01
		K-40	3.70E-01	1.62E-01	9.10E-02
258572	6/3/2013 - 6/10/2013	I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	3.88E-01	1.35E-01	2.59E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
259067	6/10/2013 - 6/17/2013	I-131	<8.38E-03	0.00E+00	8.38E-03
		Cs-134	<8.53E-03	0.00E+00	8.53E-03
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<7.04E-02	0.00E+00	7.04E-02
		K-40	4.89E-01	8.56E-02	1.12E-01
259615	6/17/2013 - 6/24/2013	I-131	<1.19E-02	0.00E+00	1.19E-02
		Cs-134	<7.84E-03	0.00E+00	7.84E-03
		Cs-137	<7.64E-03	0.00E+00	7.64E-03
		Be-7	<6.88E-02	0.00E+00	6.88E-02
		K-40	3.16E-01	7.41E-02	1.42E-01
260249	6/24/2013 - 7/1/2013	I-131	<1.07E-02	0.00E+00	1.07E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.12E-02	0.00E+00	1.12E-02
		Be-7	<6.03E-02	0.00E+00	6.03E-02
		K-40	3.88E-01	8.56E-02	1.81E-01
260709	7/1/2013 - 7/8/2013	I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	5.44E-01	1.25E-01	7.74E-02
261672	7/8/2013 - 7/15/2013	I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
		K-40	6.27E-01	1.34E-01	7.70E-02
262155	7/15/2013 - 7/22/2013	I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.73E-01	1.15E-01	4.06E-01
263105	7/22/2013 - 7/29/2013	I-131	<1.26E-02	0.00E+00	1.26E-02
		Cs-134	<8.42E-03	0.00E+00	8.42E-03
		Cs-137	<9.55E-03	0.00E+00	9.55E-03
		Be-7	<8.48E-02	0.00E+00	8.48E-02
		K-40	5.81E-01	9.36E-02	1.77E-01
263388	7/29/2013 - 8/5/2013	I-131	<1.25E-02	0.00E+00	1.25E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	<4.62E-01	0.00E+00	4.62E-01
264046	8/5/2013 - 8/12/2013	I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	4.60E-01	1.43E-01	3.32E-01
265177	8/12/2013 - 8/19/2013	I-131	<3.96E-03	0.00E+00	3.96E-03
		Cs-134	<2.41E-03	0.00E+00	2.41E-03
		Cs-137	<2.91E-03	0.00E+00	2.91E-03
		Be-7	<2.14E-02	0.00E+00	2.14E-02
		K-40	5.42E-01	3.17E-02	3.42E-02
265486	8/19/2013 - 8/26/2013	I-131	<1.26E-02	0.00E+00	1.26E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265486	8/19/2013 - 8/26/2013	Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<9.46E-02	0.00E+00	9.46E-02
		K-40	4.18E-01	9.59E-02	5.94E-02
267172	8/26/2013 - 9/3/2013	I-131	<1.26E-02	0.00E+00	1.26E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<8.32E-02	0.00E+00	8.32E-02
		K-40	2.45E-01	6.80E-02	5.10E-02
267645	9/3/2013 - 9/9/2013	I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<3.14E-02	0.00E+00	3.14E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	5.31E-01	1.33E-01	8.97E-02
268480	9/9/2013 - 9/16/2013	I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<2.42E-02	0.00E+00	2.42E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.51E-01	1.13E-01	2.13E-01
269640	9/16/2013 - 9/23/2013	I-131	<1.39E-02	0.00E+00	1.39E-02
		Cs-134	<1.08E-02	0.00E+00	1.08E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<6.36E-02	0.00E+00	6.36E-02
		K-40	3.72E-01	8.32E-02	1.17E-01
270743	9/23/2013 - 9/30/2013	I-131	<2.92E-02	0.00E+00	2.92E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	<5.77E-01	0.00E+00	5.77E-01
271468	9/30/2013 - 10/7/2013	I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<2.20E-02	0.00E+00	2.20E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	4.83E-01	1.17E-01	2.57E-01
272075	10/7/2013 - 10/14/2013	I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<8.39E-02	0.00E+00	8.39E-02
		K-40	<4.68E-01	0.00E+00	4.68E-01
272458	10/14/2013 - 10/21/2013	I-131	<1.35E-02	0.00E+00	1.35E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<8.24E-02	0.00E+00	8.24E-02
		K-40	6.33E-01	9.14E-02	3.57E-02
272858	10/21/2013 - 10/28/2013	I-131	<8.76E-03	0.00E+00	8.76E-03
		Cs-134	<8.59E-03	0.00E+00	8.59E-03
		Cs-137	<1.00E-02	0.00E+00	1.00E-02
		Be-7	<9.39E-02	0.00E+00	9.39E-02
		K-40	5.53E-01	8.54E-02	3.56E-02
273949	10/28/2013 - 11/4/2013	I-131	<1.65E-02	0.00E+00	1.65E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<6.51E-03	0.00E+00	6.51E-03
		Be-7	<1.02E-01	0.00E+00	1.02E-01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
273949	10/28/2013 - 11/4/2013	K-40	5.40E-01	1.13E-01	1.67E-01
274396	11/4/2013 - 11/11/2013	I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	5.32E-01	1.22E-01	2.01E-01
274910	11/11/2013 - 11/18/2013	I-131	<1.34E-02	0.00E+00	1.34E-02
		Cs-134	<6.79E-03	0.00E+00	6.79E-03
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<7.87E-02	0.00E+00	7.87E-02
		K-40	5.67E-01	9.60E-02	1.52E-01
276464	11/18/2013 - 11/25/2013	I-131	<1.23E-02	0.00E+00	1.23E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.00E-02	0.00E+00	1.00E-02
		Be-7	<6.17E-02	0.00E+00	6.17E-02
		K-40	4.89E-01	9.04E-02	1.39E-01
277490	11/25/2013 - 12/2/2013	I-131	<1.53E-02	0.00E+00	1.53E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<8.68E-02	0.00E+00	8.68E-02
		K-40	<5.57E-01	0.00E+00	5.57E-01
278712	12/2/2013 - 12/9/2013	I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	2.04E-01	1.22E-01	2.65E-01
278985	12/9/2013 - 12/16/2013	I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<7.70E-02	0.00E+00	7.70E-02
		K-40	5.07E-01	9.63E-02	9.79E-02
279631	12/16/2013 - 12/23/2013	I-131	<3.00E-02	0.00E+00	3.00E-02
		Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	3.47E-01	1.00E-01	2.64E-01
280109	12/23/2013 - 12/30/2013	I-131	<9.94E-03	0.00E+00	9.94E-03
		Cs-134	<8.38E-03	0.00E+00	8.38E-03
		Cs-137	<9.46E-03	0.00E+00	9.46E-03
		Be-7	<8.47E-02	0.00E+00	8.47E-02
		K-40	6.27E-01	8.61E-02	3.20E-02

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

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250591	12/10/2012 - 1/7/2013	Beta	1.11E+00	3.75E-01	1.19E+00
		Mn-54	<4.42E+00	0.00E+00	4.42E+00
		Co-58	<3.31E+00	0.00E+00	3.31E+00
		Fe-59	<7.08E+00	0.00E+00	7.08E+00
		Co-60	<5.44E+00	0.00E+00	5.44E+00
		Zn-65	<6.63E+00	0.00E+00	6.63E+00
		Zr-95	<6.99E+00	0.00E+00	6.99E+00
		Nb-95	<3.59E+00	0.00E+00	3.59E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250591	12/10/2012 - 1/7/2013	Cs-134	<3.12E+00	0.00E+00	3.12E+00
		Cs-137	<3.98E+00	0.00E+00	3.98E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<2.92E+01	0.00E+00	2.92E+01
		K-40	4.08E+01	1.32E+01	3.30E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251642	1/7/2013 - 2/4/2013	Beta	1.15E+00	3.76E-01	1.19E+00
		Mn-54	<2.95E+00	0.00E+00	2.95E+00
		Co-58	<4.03E+00	0.00E+00	4.03E+00
		Fe-59	<7.51E+00	0.00E+00	7.51E+00
		Co-60	<3.80E+00	0.00E+00	3.80E+00
		Zn-65	<8.19E+00	0.00E+00	8.19E+00
		Zr-95	<6.56E+00	0.00E+00	6.56E+00
		Nb-95	<3.81E+00	0.00E+00	3.81E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<3.20E+00	0.00E+00	3.20E+00
		Cs-137	<3.43E+00	0.00E+00	3.43E+00
		BaLa-140	<9.74E+00	0.00E+00	9.74E+00
		Be-7	<3.16E+01	0.00E+00	3.16E+01
		K-40	6.64E+01	1.80E+01	3.58E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253920	2/4/2013 - 3/4/2013	Beta	1.69E+00	3.75E-01	1.14E+00
		Mn-54	<3.79E+00	0.00E+00	3.79E+00
		Co-58	<3.18E+00	0.00E+00	3.18E+00
		Fe-59	<8.89E+00	0.00E+00	8.89E+00
		Co-60	<4.89E+00	0.00E+00	4.89E+00
		Zn-65	<9.90E+00	0.00E+00	9.90E+00
		Zr-95	<8.05E+00	0.00E+00	8.05E+00
		Nb-95	<4.86E+00	0.00E+00	4.86E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<2.92E+00	0.00E+00	2.92E+00
		Cs-137	<4.08E+00	0.00E+00	4.08E+00
		BaLa-140	<6.99E+00	0.00E+00	6.99E+00
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	1.51E+02	2.16E+01	3.32E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253041	12/10/2012 - 3/4/2013	H3DW	<5.53E+01	0.00E+00	1.79E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255866	3/4/2013 - 4/1/2013	Beta	8.12E-01	3.69E-01	1.20E+00
		Mn-54	<2.96E+00	0.00E+00	2.96E+00
		Co-58	<3.04E+00	0.00E+00	3.04E+00
		Fe-59	<6.52E+00	0.00E+00	6.52E+00
		Co-60	<3.46E+00	0.00E+00	3.46E+00
		Zn-65	<6.27E+00	0.00E+00	6.27E+00
		Zr-95	<6.06E+00	0.00E+00	6.06E+00
		Nb-95	<4.29E+00	0.00E+00	4.29E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<2.97E+00	0.00E+00	2.97E+00
		Cs-137	<3.08E+00	0.00E+00	3.08E+00
		BaLa-140	<7.08E+00	0.00E+00	7.08E+00
		Be-7	<2.98E+01	0.00E+00	2.98E+01
		K-40	1.49E+02	2.20E+01	3.00E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257058	4/1/2013 - 4/29/2013	Beta	<2.45E-01	0.00E+00	1.30E+00
		Mn-54	<4.31E+00	0.00E+00	4.31E+00
		Co-58	<5.01E+00	0.00E+00	5.01E+00
		Fe-59	<9.97E+00	0.00E+00	9.97E+00
		Co-60	<4.80E+00	0.00E+00	4.80E+00
		Zn-65	<7.85E+00	0.00E+00	7.85E+00
		Zr-95	<7.06E+00	0.00E+00	7.06E+00
		Nb-95	<4.21E+00	0.00E+00	4.21E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<4.05E+00	0.00E+00	4.05E+00
		Cs-137	<5.18E+00	0.00E+00	5.18E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257058	4/1/2013 - 4/29/2013	Be-7	<3.69E+01	0.00E+00	3.69E+01
		K-40	8.71E+01	2.53E+01	4.33E+01
258250	4/29/2013 - 5/28/2013	Beta	1.51E+00	3.62E-01	1.11E+00
		Mn-54	<4.24E+00	0.00E+00	4.24E+00
		Co-58	<4.91E+00	0.00E+00	4.91E+00
		Fe-59	<8.43E+00	0.00E+00	8.43E+00
		Co-60	<5.22E+00	0.00E+00	5.22E+00
		Zn-65	<7.75E+00	0.00E+00	7.75E+00
		Zr-95	<7.57E+00	0.00E+00	7.57E+00
		Nb-95	<4.62E+00	0.00E+00	4.62E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<2.94E+00	0.00E+00	2.94E+00
		Cs-137	<3.94E+00	0.00E+00	3.94E+00
		BaLa-140	<9.80E+00	0.00E+00	9.80E+00
		Be-7	<3.54E+01	0.00E+00	3.54E+01
		K-40	1.30E+02	2.65E+01	3.77E+01
		258161	3/4/2013 - 5/28/2013	H3DW	<5.41E+01
260256	5/28/2013 - 6/24/2013	Beta	9.69E-01	4.02E-01	1.30E+00
		Mn-54	<3.45E+00	0.00E+00	3.45E+00
		Co-58	<3.64E+00	0.00E+00	3.64E+00
		Fe-59	<8.74E+00	0.00E+00	8.74E+00
		Co-60	<4.69E+00	0.00E+00	4.69E+00
		Zn-65	<9.04E+00	0.00E+00	9.04E+00
		Zr-95	<8.47E+00	0.00E+00	8.47E+00
		Nb-95	<4.72E+00	0.00E+00	4.72E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.17E+00	0.00E+00	3.17E+00
		Cs-137	<4.21E+00	0.00E+00	4.21E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<3.25E+01	0.00E+00	3.25E+01
		K-40	5.59E+01	1.90E+01	4.61E+01
		257168	6/24/2013 - 7/22/2013	Beta	7.46E-01
Mn-54	<5.13E+00			0.00E+00	5.13E+00
Co-58	<5.29E+00			0.00E+00	5.29E+00
Fe-59	<1.22E+01			0.00E+00	1.22E+01
Co-60	<4.36E+00			0.00E+00	4.36E+00
Zn-65	<1.01E+01			0.00E+00	1.01E+01
Zr-95	<9.58E+00			0.00E+00	9.58E+00
Nb-95	<6.44E+00			0.00E+00	6.44E+00
I-131	<1.33E+01			0.00E+00	1.33E+01
Cs-134	<3.87E+00			0.00E+00	3.87E+00
Cs-137	<5.09E+00			0.00E+00	5.09E+00
BaLa-140	<1.36E+01			0.00E+00	1.36E+01
Be-7	<4.31E+01			0.00E+00	4.31E+01
K-40	1.45E+02			2.89E+01	4.48E+01
263194	7/22/2013 - 8/19/2013			Beta	<5.52E-01
		Mn-54	<2.59E+00	0.00E+00	2.59E+00
		Co-58	<4.17E+00	0.00E+00	4.17E+00
		Fe-59	<7.33E+00	0.00E+00	7.33E+00
		Co-60	<5.46E+00	0.00E+00	5.46E+00
		Zn-65	<8.76E+00	0.00E+00	8.76E+00
		Zr-95	<6.14E+00	0.00E+00	6.14E+00
		Nb-95	<4.16E+00	0.00E+00	4.16E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.96E+00	0.00E+00	3.96E+00
		Cs-137	<3.80E+00	0.00E+00	3.80E+00
		BaLa-140	<9.37E+00	0.00E+00	9.37E+00
		Be-7	<3.24E+01	0.00E+00	3.24E+01
		K-40	8.61E+01	1.48E+01	3.28E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
266921	5/28/2013 - 8/19/2013	H3DW	<6.0E+01	0.00E+00	1.55E+02
265519	8/19/2013 - 9/16/2013	Nuclide	Activity	1 Sigma Error	LLD
		Beta	9.25E-01	3.81E-01	1.23E+00
		Mn-54	<4.61E+00	0.00E+00	4.61E+00
		Co-58	<3.83E+00	0.00E+00	3.83E+00
		Fe-59	<9.25E+00	0.00E+00	9.25E+00
		Co-60	<4.08E+00	0.00E+00	4.08E+00
		Zn-65	<8.33E+00	0.00E+00	8.33E+00
		Zr-95	<8.50E+00	0.00E+00	8.50E+00
		Nb-95	<5.23E+00	0.00E+00	5.23E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.32E+00	0.00E+00	3.32E+00
		Cs-137	<4.51E+00	0.00E+00	4.51E+00
		BaLa-140	<1.28E+01	0.00E+00	1.28E+01
		Be-7	<4.31E+01	0.00E+00	4.31E+01
		K-40	1.82E+02	2.95E+01	3.76E+01
269674	9/16/2013 - 10/14/2013	Nuclide	Activity	1 Sigma Error	LLD
		Beta	9.30E-01	3.81E-01	1.23E+00
		Mn-54	<3.62E+00	0.00E+00	3.62E+00
		Co-58	<4.08E+00	0.00E+00	4.08E+00
		Fe-59	<7.92E+00	0.00E+00	7.92E+00
		Co-60	<3.71E+00	0.00E+00	3.71E+00
		Zn-65	<9.04E+00	0.00E+00	9.04E+00
		Zr-95	<5.25E+00	0.00E+00	5.25E+00
		Nb-95	<5.40E+00	0.00E+00	5.40E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.62E+00	0.00E+00	3.62E+00
		Cs-137	<3.91E+00	0.00E+00	3.91E+00
		BaLa-140	<1.22E+01	0.00E+00	1.22E+01
		Be-7	<3.01E+01	0.00E+00	3.01E+01
		K-40	7.57E+01	1.73E+01	3.52E+01
272496	10/14/2013 - 11/11/2013	Nuclide	Activity	1 Sigma Error	LLD
		Beta	6.61E-01	3.60E-01	1.18E+00
		Mn-54	<3.74E+00	0.00E+00	3.74E+00
		Co-58	<4.35E+00	0.00E+00	4.35E+00
		Fe-59	<8.45E+00	0.00E+00	8.45E+00
		Co-60	<3.89E+00	0.00E+00	3.89E+00
		Zn-65	<7.12E+00	0.00E+00	7.12E+00
		Zr-95	<6.52E+00	0.00E+00	6.52E+00
		Nb-95	<3.89E+00	0.00E+00	3.89E+00
		I-131	<1.39E+01	0.00E+00	1.39E+01
		Cs-134	<3.07E+00	0.00E+00	3.07E+00
		Cs-137	<3.78E+00	0.00E+00	3.78E+00
		BaLa-140	<8.18E+00	0.00E+00	8.18E+00
		Be-7	<3.10E+01	0.00E+00	3.10E+01
		K-40	1.80E+02	2.36E+01	2.87E+01
274947	11/11/2013 - 12/9/2013	Nuclide	Activity	1 Sigma Error	LLD
		Beta	<-5.7E-03	0.00E+00	1.27E+00
		Mn-54	<3.79E+00	0.00E+00	3.79E+00
		Co-58	<4.20E+00	0.00E+00	4.20E+00
		Fe-59	<8.92E+00	0.00E+00	8.92E+00
		Co-60	<4.00E+00	0.00E+00	4.00E+00
		Zn-65	<8.01E+00	0.00E+00	8.01E+00
		Zr-95	<7.04E+00	0.00E+00	7.04E+00
		Nb-95	<4.98E+00	0.00E+00	4.98E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.74E+00	0.00E+00	3.74E+00
		Cs-137	<4.09E+00	0.00E+00	4.09E+00
		BaLa-140	<9.87E+00	0.00E+00	9.87E+00
		Be-7	<3.38E+01	0.00E+00	3.38E+01
		K-40	1.92E+02	2.00E+01	2.86E+01
276938	8/19/2013 - 12/9/2013	Nuclide	Activity	1 Sigma Error	LLD
		H3DW	<1.60E+01	0.00E+00	1.50E+02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD		
250592	12/10/2012 - 1/7/2013	Beta	1.14E+00	3.76E-01	1.19E+00		
		Mn-54	<4.16E+00	0.00E+00	4.16E+00		
		Co-58	<3.81E+00	0.00E+00	3.81E+00		
		Fe-59	<9.49E+00	0.00E+00	9.49E+00		
		Co-60	<4.28E+00	0.00E+00	4.28E+00		
		Zn-65	<6.35E+00	0.00E+00	6.35E+00		
		Zr-95	<6.91E+00	0.00E+00	6.91E+00		
		Nb-95	<5.36E+00	0.00E+00	5.36E+00		
		I-131	<1.45E+01	0.00E+00	1.45E+01		
		Cs-134	<3.40E+00	0.00E+00	3.40E+00		
		Cs-137	<4.51E+00	0.00E+00	4.51E+00		
		BaLa-140	<9.31E+00	0.00E+00	9.31E+00		
		Be-7	<3.85E+01	0.00E+00	3.85E+01		
		K-40	5.46E+01	1.29E+01	4.98E+01		
		251643	1/7/2013 - 2/4/2013	Beta	7.65E-01	3.67E-01	1.19E+00
				Mn-54	<4.71E+00	0.00E+00	4.71E+00
Co-58	<4.86E+00			0.00E+00	4.86E+00		
Fe-59	<1.06E+01			0.00E+00	1.06E+01		
Co-60	<5.48E+00			0.00E+00	5.48E+00		
Zn-65	<8.07E+00			0.00E+00	8.07E+00		
Zr-95	<1.11E+01			0.00E+00	1.11E+01		
Nb-95	<4.35E+00			0.00E+00	4.35E+00		
I-131	<1.41E+01			0.00E+00	1.41E+01		
Cs-134	<4.22E+00			0.00E+00	4.22E+00		
Cs-137	<4.63E+00			0.00E+00	4.63E+00		
BaLa-140	<6.14E+00			0.00E+00	6.14E+00		
Be-7	<4.53E+01			0.00E+00	4.53E+01		
K-40	8.46E+01			1.85E+01	5.61E+01		
253921	2/4/2013 - 3/4/2013			Beta	8.51E-01	3.53E-01	1.14E+00
				Mn-54	<3.34E+00	0.00E+00	3.34E+00
		Co-58	<4.20E+00	0.00E+00	4.20E+00		
		Fe-59	<6.05E+00	0.00E+00	6.05E+00		
		Co-60	<5.10E+00	0.00E+00	5.10E+00		
		Zn-65	<6.02E+00	0.00E+00	6.02E+00		
		Zr-95	<5.63E+00	0.00E+00	5.63E+00		
		Nb-95	<4.47E+00	0.00E+00	4.47E+00		
		I-131	<9.14E+00	0.00E+00	9.14E+00		
		Cs-134	<3.11E+00	0.00E+00	3.11E+00		
		Cs-137	<4.02E+00	0.00E+00	4.02E+00		
		BaLa-140	<9.10E+00	0.00E+00	9.10E+00		
		Be-7	<2.96E+01	0.00E+00	2.96E+01		
		K-40	1.01E+02	1.95E+01	4.99E+01		
		253042	12/10/2012 - 3/4/2013	H3DW	<2.15E+01	0.00E+00	1.78E+02
		255867	3/4/2013 - 4/1/2013	Beta	6.05E-01	3.61E-01	1.19E+00
Mn-54	<3.82E+00			0.00E+00	3.82E+00		
Co-58	<4.57E+00			0.00E+00	4.57E+00		
Fe-59	<9.23E+00			0.00E+00	9.23E+00		
Co-60	<6.43E+00			0.00E+00	6.43E+00		
Zn-65	<1.22E+01			0.00E+00	1.22E+01		
Zr-95	<8.47E+00			0.00E+00	8.47E+00		
Nb-95	<4.48E+00			0.00E+00	4.48E+00		
I-131	<1.24E+01			0.00E+00	1.24E+01		
Cs-134	<3.80E+00			0.00E+00	3.80E+00		
Cs-137	<4.12E+00			0.00E+00	4.12E+00		
BaLa-140	<1.22E+01			0.00E+00	1.22E+01		
Be-7	<3.85E+01			0.00E+00	3.85E+01		
K-40	<7.91E+01			0.00E+00	7.91E+01		
257059	4/1/2013 - 4/29/2013			Beta	<2.83E-01	0.00E+00	1.30E+00
				Mn-54	<4.44E+00	0.00E+00	4.44E+00
		Co-58	<3.90E+00	0.00E+00	3.90E+00		



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257059	4/1/2013 - 4/29/2013	Fe-59	<1.06E+01	0.00E+00	1.06E+01
		Co-60	<3.69E+00	0.00E+00	3.69E+00
		Zn-65	<8.27E+00	0.00E+00	8.27E+00
		Zr-95	<6.36E+00	0.00E+00	6.36E+00
		Nb-95	<4.29E+00	0.00E+00	4.29E+00
		I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.35E+00	0.00E+00	3.35E+00
		Cs-137	<4.70E+00	0.00E+00	4.70E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.17E+01	0.00E+00	3.17E+01
		K-40	5.46E+01	1.70E+01	3.14E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258251	4/29/2013 - 5/28/2013	Beta	1.81E+00	3.70E-01	1.11E+00
		Mn-54	<1.39E+00	0.00E+00	1.39E+00
		Co-58	<1.64E+00	0.00E+00	1.64E+00
		Fe-59	<3.54E+00	0.00E+00	3.54E+00
		Co-60	<1.42E+00	0.00E+00	1.42E+00
		Zn-65	<2.96E+00	0.00E+00	2.96E+00
		Zr-95	<2.96E+00	0.00E+00	2.96E+00
		Nb-95	<2.06E+00	0.00E+00	2.06E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<1.20E+00	0.00E+00	1.20E+00
		Cs-137	<1.40E+00	0.00E+00	1.40E+00
		BaLa-140	<6.87E+00	0.00E+00	6.87E+00
		Be-7	<1.54E+01	0.00E+00	1.54E+01
		K-40	1.10E+02	9.38E+00	1.36E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258162	3/4/2013 - 5/28/2013	H3DW	<3.28E+01	0.00E+00	1.69E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260257	5/28/2013 - 6/24/2013	Beta	1.17E+00	4.07E-01	1.30E+00
		Mn-54	<3.41E+00	0.00E+00	3.41E+00
		Co-58	<4.43E+00	0.00E+00	4.43E+00
		Fe-59	<9.61E+00	0.00E+00	9.61E+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	<6.59E+00	0.00E+00	6.59E+00
		Nb-95	<4.20E+00	0.00E+00	4.20E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.57E+00	0.00E+00	3.57E+00
		Cs-137	<3.85E+00	0.00E+00	3.85E+00
		BaLa-140	<7.69E+00	0.00E+00	7.69E+00
		Be-7	<3.17E+01	0.00E+00	3.17E+01
		K-40	6.37E+01	1.66E+01	3.80E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257169	6/24/2013 - 7/22/2013	Beta	<4.33E-01	0.00E+00	1.31E+00
		Mn-54	<4.01E+00	0.00E+00	4.01E+00
		Co-58	<4.61E+00	0.00E+00	4.61E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<4.55E+00	0.00E+00	4.55E+00
		Zn-65	<9.70E+00	0.00E+00	9.70E+00
		Zr-95	<9.08E+00	0.00E+00	9.08E+00
		Nb-95	<5.41E+00	0.00E+00	5.41E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<2.77E+00	0.00E+00	2.77E+00
		Cs-137	<4.51E+00	0.00E+00	4.51E+00
		BaLa-140	<1.12E+01	0.00E+00	1.12E+01
		Be-7	<3.83E+01	0.00E+00	3.83E+01
		K-40	5.60E+01	1.57E+01	4.93E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
263195	7/22/2013 - 8/19/2013	Beta	<1.83E-01	0.00E+00	1.28E+00
		Mn-54	<3.28E+00	0.00E+00	3.28E+00
		Co-58	<3.01E+00	0.00E+00	3.01E+00
		Fe-59	<7.99E+00	0.00E+00	7.99E+00
		Co-60	<3.67E+00	0.00E+00	3.67E+00
		Zn-65	<7.73E+00	0.00E+00	7.73E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
263195	7/22/2013 - 8/19/2013	Zr-95	<7.79E+00	0.00E+00	7.79E+00
		Nb-95	<4.65E+00	0.00E+00	4.65E+00
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<2.98E+00	0.00E+00	2.98E+00
		Cs-137	<3.22E+00	0.00E+00	3.22E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<3.95E+01	0.00E+00	3.95E+01
		K-40	1.66E+02	3.32E+01	4.07E+01
		266922	5/28/2013 - 8/19/2013	H3DW	<-5.6E+01
265520	8/19/2013 - 9/16/2013	Beta	1.04E+00	3.86E-01	1.24E+00
		Mn-54	<3.11E+00	0.00E+00	3.11E+00
		Co-58	<3.31E+00	0.00E+00	3.31E+00
		Fe-59	<8.92E+00	0.00E+00	8.92E+00
		Co-60	<2.85E+00	0.00E+00	2.85E+00
		Zn-65	<8.56E+00	0.00E+00	8.56E+00
		Zr-95	<7.10E+00	0.00E+00	7.10E+00
		Nb-95	<4.47E+00	0.00E+00	4.47E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<3.22E+00	0.00E+00	3.22E+00
		BaLa-140	<6.47E+00	0.00E+00	6.47E+00
		Be-7	<3.48E+01	0.00E+00	3.48E+01
		K-40	1.65E+02	2.62E+01	2.89E+01
		269675	9/16/2013 - 10/14/2013	Beta	1.50E+00
Mn-54	<3.67E+00			0.00E+00	3.67E+00
Co-58	<3.70E+00			0.00E+00	3.70E+00
Fe-59	<5.52E+00			0.00E+00	5.52E+00
Co-60	<4.20E+00			0.00E+00	4.20E+00
Zn-65	<7.22E+00			0.00E+00	7.22E+00
Zr-95	<7.15E+00			0.00E+00	7.15E+00
Nb-95	<4.48E+00			0.00E+00	4.48E+00
I-131	<1.19E+01			0.00E+00	1.19E+01
Cs-134	<2.97E+00			0.00E+00	2.97E+00
Cs-137	<3.31E+00			0.00E+00	3.31E+00
BaLa-140	<7.10E+00			0.00E+00	7.10E+00
Be-7	<3.54E+01			0.00E+00	3.54E+01
K-40	1.82E+02			2.17E+01	3.26E+01
272497	10/14/2013 - 11/11/2013			Beta	<5.19E-01
		Mn-54	<4.06E+00	0.00E+00	4.06E+00
		Co-58	<3.03E+00	0.00E+00	3.03E+00
		Fe-59	<1.10E+01	0.00E+00	1.10E+01
		Co-60	<4.42E+00	0.00E+00	4.42E+00
		Zn-65	<5.31E+00	0.00E+00	5.31E+00
		Zr-95	<8.96E+00	0.00E+00	8.96E+00
		Nb-95	<5.50E+00	0.00E+00	5.50E+00
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<3.92E+00	0.00E+00	3.92E+00
		Cs-137	<3.70E+00	0.00E+00	3.70E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<3.83E+01	0.00E+00	3.83E+01
		K-40	<7.08E+01	0.00E+00	7.08E+01
		274948	11/11/2013 - 12/9/2013	Beta	<5.95E-01
Mn-54	<2.99E+00			0.00E+00	2.99E+00
Co-58	<3.06E+00			0.00E+00	3.06E+00
Fe-59	<6.86E+00			0.00E+00	6.86E+00
Co-60	<4.20E+00			0.00E+00	4.20E+00
Zn-65	<7.20E+00			0.00E+00	7.20E+00
Zr-95	<5.80E+00			0.00E+00	5.80E+00
Nb-95	<3.32E+00			0.00E+00	3.32E+00
I-131	<1.16E+01			0.00E+00	1.16E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274948	11/11/2013 - 12/9/2013	Cs-134	<2.45E+00	0.00E+00	2.45E+00
		Cs-137	<3.00E+00	0.00E+00	3.00E+00
		BaLa-140	<9.07E+00	0.00E+00	9.07E+00
		Be-7	<2.94E+01	0.00E+00	2.94E+01
		K-40	7.04E+01	1.85E+01	3.06E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276939	8/19/2013 - 12/9/2013	H3DW	<-1.4E+01	0.00E+00	1.50E+02

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250593	12/10/2012 - 1/7/2013	Beta	8.19E-01	3.70E-01	1.20E+00
		Mn-54	<4.40E+00	0.00E+00	4.40E+00
		Co-58	<5.61E+00	0.00E+00	5.61E+00
		Fe-59	<1.30E+01	0.00E+00	1.30E+01
		Co-60	<6.10E+00	0.00E+00	6.10E+00
		Zn-65	<1.15E+01	0.00E+00	1.15E+01
		Zr-95	<1.27E+01	0.00E+00	1.27E+01
		Nb-95	<8.16E+00	0.00E+00	8.16E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<4.17E+00	0.00E+00	4.17E+00
		Cs-137	<6.08E+00	0.00E+00	6.08E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<5.43E+01	0.00E+00	5.43E+01
		K-40	1.20E+02	2.54E+01	4.35E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251644	1/7/2013 - 2/4/2013	Beta	1.08E+00	3.76E-01	1.20E+00
		Mn-54	<3.71E+00	0.00E+00	3.71E+00
		Co-58	<3.87E+00	0.00E+00	3.87E+00
		Fe-59	<7.04E+00	0.00E+00	7.04E+00
		Co-60	<6.31E+00	0.00E+00	6.31E+00
		Zn-65	<7.26E+00	0.00E+00	7.26E+00
		Zr-95	<7.85E+00	0.00E+00	7.85E+00
		Nb-95	<4.83E+00	0.00E+00	4.83E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<3.44E+00	0.00E+00	3.44E+00
		Cs-137	<4.97E+00	0.00E+00	4.97E+00
		BaLa-140	<1.24E+01	0.00E+00	1.24E+01
		Be-7	<3.74E+01	0.00E+00	3.74E+01
		K-40	<7.12E+01	0.00E+00	7.12E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253922	2/4/2013 - 3/4/2013	Beta	2.07E+00	3.85E-01	1.14E+00
		Mn-54	<3.16E+00	0.00E+00	3.16E+00
		Co-58	<3.47E+00	0.00E+00	3.47E+00
		Fe-59	<6.44E+00	0.00E+00	6.44E+00
		Co-60	<4.61E+00	0.00E+00	4.61E+00
		Zn-65	<5.86E+00	0.00E+00	5.86E+00
		Zr-95	<5.82E+00	0.00E+00	5.82E+00
		Nb-95	<3.87E+00	0.00E+00	3.87E+00
		I-131	<1.08E+01	0.00E+00	1.08E+01
		Cs-134	<2.73E+00	0.00E+00	2.73E+00
		Cs-137	<3.19E+00	0.00E+00	3.19E+00
		BaLa-140	<9.67E+00	0.00E+00	9.67E+00
		Be-7	<2.64E+01	0.00E+00	2.64E+01
		K-40	<5.57E+01	0.00E+00	5.57E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253043	12/10/2012 - 3/4/2013	H3DW	3.95E+02	6.19E+01	1.82E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255868	3/4/2013 - 4/1/2013	Beta	2.09E+00	3.99E-01	1.20E+00
		Mn-54	<3.77E+00	0.00E+00	3.77E+00
		Co-58	<3.77E+00	0.00E+00	3.77E+00
		Fe-59	<8.63E+00	0.00E+00	8.63E+00
		Co-60	<4.39E+00	0.00E+00	4.39E+00
		Zn-65	<8.43E+00	0.00E+00	8.43E+00
		Zr-95	<7.91E+00	0.00E+00	7.91E+00
		Nb-95	<4.77E+00	0.00E+00	4.77E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255868	3/4/2013 - 4/1/2013	I-131	<1.28E+01	0.00E+00	1.28E+01
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<3.25E+00	0.00E+00	3.25E+00
		BaLa-140	<8.66E+00	0.00E+00	8.66E+00
		Be-7	<3.29E+01	0.00E+00	3.29E+01
		K-40	<7.48E+01	0.00E+00	7.48E+01
257060	4/1/2013 - 4/29/2013	Beta	<1.78E-01	0.00E+00	1.31E+00
		Mn-54	<3.65E+00	0.00E+00	3.65E+00
		Co-58	<4.19E+00	0.00E+00	4.19E+00
		Fe-59	<9.07E+00	0.00E+00	9.07E+00
		Co-60	<4.78E+00	0.00E+00	4.78E+00
		Zn-65	<6.29E+00	0.00E+00	6.29E+00
		Zr-95	<8.19E+00	0.00E+00	8.19E+00
		Nb-95	<5.77E+00	0.00E+00	5.77E+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	<4.66E+00	0.00E+00	4.66E+00
		BaLa-140	<1.26E+01	0.00E+00	1.26E+01
		Be-7	<3.79E+01	0.00E+00	3.79E+01
		K-40	5.71E+01	2.33E+01	3.10E+01
		258252	4/29/2013 - 5/28/2013	Beta	1.89E+00
Mn-54	<3.27E+00			0.00E+00	3.27E+00
Co-58	<2.76E+00			0.00E+00	2.76E+00
Fe-59	<6.32E+00			0.00E+00	6.32E+00
Co-60	<3.14E+00			0.00E+00	3.14E+00
Zn-65	<5.05E+00			0.00E+00	5.05E+00
Zr-95	<4.98E+00			0.00E+00	4.98E+00
Nb-95	<4.16E+00			0.00E+00	4.16E+00
I-131	<1.22E+01			0.00E+00	1.22E+01
Cs-134	<2.21E+00			0.00E+00	2.21E+00
Cs-137	<2.42E+00			0.00E+00	2.42E+00
BaLa-140	<5.87E+00			0.00E+00	5.87E+00
Be-7	<2.66E+01			0.00E+00	2.66E+01
K-40	1.66E+02			2.07E+01	2.12E+01
258163	3/4/2013 - 5/28/2013			H3DW	4.17E+02
260258	5/28/2013 - 6/24/2013	Beta	1.71E+00	4.23E-01	1.31E+00
		Mn-54	<3.26E+00	0.00E+00	3.26E+00
		Co-58	<3.80E+00	0.00E+00	3.80E+00
		Fe-59	<9.23E+00	0.00E+00	9.23E+00
		Co-60	<4.21E+00	0.00E+00	4.21E+00
		Zn-65	<8.06E+00	0.00E+00	8.06E+00
		Zr-95	<8.20E+00	0.00E+00	8.20E+00
		Nb-95	<4.40E+00	0.00E+00	4.40E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.79E+00	0.00E+00	3.79E+00
		Cs-137	<3.72E+00	0.00E+00	3.72E+00
		BaLa-140	<8.00E+00	0.00E+00	8.00E+00
		Be-7	<3.72E+01	0.00E+00	3.72E+01
		K-40	1.66E+02	2.54E+01	2.94E+01
		257170	6/24/2013 - 7/22/2013	Beta	1.70E+00
Mn-54	<3.50E+00			0.00E+00	3.50E+00
Co-58	<4.94E+00			0.00E+00	4.94E+00
Fe-59	<1.00E+01			0.00E+00	1.00E+01
Co-60	<5.15E+00			0.00E+00	5.15E+00
Zn-65	<8.41E+00			0.00E+00	8.41E+00
Zr-95	<7.48E+00			0.00E+00	7.48E+00
Nb-95	<5.73E+00			0.00E+00	5.73E+00
I-131	<1.36E+01			0.00E+00	1.36E+01
Cs-134	<3.18E+00			0.00E+00	3.18E+00
Cs-137	<4.81E+00			0.00E+00	4.81E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257170	6/24/2013 - 7/22/2013	BaLa-140	<1.25E+01	0.00E+00	1.25E+01
		Be-7	<4.14E+01	0.00E+00	4.14E+01
		K-40	1.14E+02	2.21E+01	3.47E+01
263197	7/22/2013 - 8/19/2013	Beta	1.67E+00	4.15E-01	1.29E+00
		Mn-54	<4.19E+00	0.00E+00	4.19E+00
		Co-58	<3.75E+00	0.00E+00	3.75E+00
		Fe-59	<6.57E+00	0.00E+00	6.57E+00
		Co-60	<3.73E+00	0.00E+00	3.73E+00
		Zn-65	<5.85E+00	0.00E+00	5.85E+00
		Zr-95	<7.43E+00	0.00E+00	7.43E+00
		Nb-95	<5.10E+00	0.00E+00	5.10E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.34E+00	0.00E+00	3.34E+00
		Cs-137	<3.62E+00	0.00E+00	3.62E+00
		BaLa-140	<7.95E+00	0.00E+00	7.95E+00
		Be-7	<3.83E+01	0.00E+00	3.83E+01
		K-40	8.50E+01	1.90E+01	3.64E+01
		266923	5/28/2013 - 8/19/2013	Nuclide	Activity
		H3DW	<1.16E+02	0.00E+00	1.53E+02
265521	8/19/2013 - 9/16/2013	Beta	1.54E+00	3.98E-01	1.24E+00
		Mn-54	<3.34E+00	0.00E+00	3.34E+00
		Co-58	<4.36E+00	0.00E+00	4.36E+00
		Fe-59	<1.03E+01	0.00E+00	1.03E+01
		Co-60	<5.12E+00	0.00E+00	5.12E+00
		Zn-65	<5.43E+00	0.00E+00	5.43E+00
		Zr-95	<9.09E+00	0.00E+00	9.09E+00
		Nb-95	<5.83E+00	0.00E+00	5.83E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.78E+00	0.00E+00	3.78E+00
		Cs-137	<4.63E+00	0.00E+00	4.63E+00
		BaLa-140	<7.09E+00	0.00E+00	7.09E+00
		Be-7	<2.91E+01	0.00E+00	2.91E+01
		K-40	6.78E+01	1.85E+01	4.79E+01
		269676	9/16/2013 - 10/14/2013	Beta	2.25E+00
Mn-54	<3.46E+00			0.00E+00	3.46E+00
Co-58	<3.42E+00			0.00E+00	3.42E+00
Fe-59	<8.26E+00			0.00E+00	8.26E+00
Co-60	<3.92E+00			0.00E+00	3.92E+00
Zn-65	<8.36E+00			0.00E+00	8.36E+00
Zr-95	<7.17E+00			0.00E+00	7.17E+00
Nb-95	<4.65E+00			0.00E+00	4.65E+00
I-131	<1.42E+01			0.00E+00	1.42E+01
Cs-134	<3.58E+00			0.00E+00	3.58E+00
Cs-137	<4.28E+00			0.00E+00	4.28E+00
BaLa-140	<9.38E+00			0.00E+00	9.38E+00
Be-7	<3.51E+01			0.00E+00	3.51E+01
K-40	1.92E+02			2.45E+01	3.71E+01
272498	10/14/2013 - 11/11/2013			Beta	1.34E+00
		Mn-54	<3.05E+00	0.00E+00	3.05E+00
		Co-58	<3.26E+00	0.00E+00	3.26E+00
		Fe-59	<7.99E+00	0.00E+00	7.99E+00
		Co-60	<3.18E+00	0.00E+00	3.18E+00
		Zn-65	<5.84E+00	0.00E+00	5.84E+00
		Zr-95	<5.60E+00	0.00E+00	5.60E+00
		Nb-95	<4.16E+00	0.00E+00	4.16E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<2.65E+00	0.00E+00	2.65E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<8.23E+00	0.00E+00	8.23E+00
		Be-7	1.99E+01	1.16E+01	2.83E+01
		K-40	7.34E+01	2.06E+01	3.21E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274949	11/11/2013 - 12/9/2013	Beta	7.35E-01	3.91E-01	1.28E+00
		Mn-54	<3.22E+00	0.00E+00	3.22E+00
		Co-58	<3.68E+00	0.00E+00	3.68E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<4.70E+00	0.00E+00	4.70E+00
		Zn-65	<7.95E+00	0.00E+00	7.95E+00
		Zr-95	<6.24E+00	0.00E+00	6.24E+00
		Nb-95	<5.54E+00	0.00E+00	5.54E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.57E+00	0.00E+00	3.57E+00
		Cs-137	<4.15E+00	0.00E+00	4.15E+00
		BaLa-140	<7.27E+00	0.00E+00	7.27E+00
		Be-7	<3.78E+01	0.00E+00	3.78E+01
		K-40	7.56E+01	1.90E+01	3.98E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276940	8/19/2013 - 12/9/2013	H3DW	1.62E+02	4.87E+01	1.50E+02

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

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255054	4/16/2013 - 4/16/2013	Mn-54	<7.91E+00	0.00E+00	7.91E+00
		Co-58	<7.15E+00	0.00E+00	7.15E+00
		Fe-59	<1.60E+01	0.00E+00	1.60E+01
		Co-60	<9.13E+00	0.00E+00	9.13E+00
		Zn-65	<2.11E+01	0.00E+00	2.11E+01
		Nb-95	<6.02E+00	0.00E+00	6.02E+00
		I-131	<6.60E+00	0.00E+00	6.60E+00
		Cs-134	<6.98E+00	0.00E+00	6.98E+00
		Cs-137	1.20E+01	3.24E+00	5.88E+00
		Be-7	<4.75E+01	0.00E+00	4.75E+01
		K-40	3.57E+03	1.18E+02	6.57E+01
		Ag-110M	<5.60E+00	0.00E+00	5.60E+00
		Sb-122	<1.28E+01	0.00E+00	1.28E+01
		Sb-125	<1.74E+01	0.00E+00	1.74E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269605	10/15/2013 - 10/15/2013	Mn-54	<5.34E+00	0.00E+00	5.34E+00
		Co-58	<5.26E+00	0.00E+00	5.26E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<5.85E+00	0.00E+00	5.85E+00
		Zn-65	<1.38E+01	0.00E+00	1.38E+01
		Nb-95	<5.39E+00	0.00E+00	5.39E+00
		I-131	<5.82E+00	0.00E+00	5.82E+00
		Cs-134	<4.89E+00	0.00E+00	4.89E+00
		Cs-137	1.55E+01	3.04E+00	4.20E+00
		Be-7	<4.20E+01	0.00E+00	4.20E+01
		K-40	3.73E+03	9.25E+01	4.71E+01
		Ag-110M	<4.25E+00	0.00E+00	4.25E+00
		Sb-122	<1.07E+01	0.00E+00	1.07E+01
		Sb-125	<1.39E+01	0.00E+00	1.39E+01

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251224	1/8/2013 - 1/8/2013	Mn-54	<9.52E+00	0.00E+00	9.52E+00
		Co-58	<1.48E+01	0.00E+00	1.48E+01
		Fe-59	<2.39E+01	0.00E+00	2.39E+01
		Co-60	<1.45E+01	0.00E+00	1.45E+01
		Zn-65	<1.86E+01	0.00E+00	1.86E+01
		Nb-95	<9.38E+00	0.00E+00	9.38E+00
		I-131	<1.81E+01	0.00E+00	1.81E+01
		Cs-134	<1.03E+01	0.00E+00	1.03E+01
		Cs-137	2.07E+01	5.82E+00	9.93E+00
		Be-7	<8.38E+01	0.00E+00	8.38E+01
		K-40	2.75E+03	1.55E+02	8.39E+01
		Ag-110M	<9.98E+00	0.00E+00	9.98E+00
		Sb-122	<9.76E+01	0.00E+00	9.76E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251224	1/8/2013 - 1/8/2013	Sb-125	<2.44E+01	0.00E+00	2.44E+01
255055	4/15/2013 - 4/15/2013	Mn-54	<1.02E+01	0.00E+00	1.02E+01
		Co-58	<9.41E+00	0.00E+00	9.41E+00
		Fe-59	<1.78E+01	0.00E+00	1.78E+01
		Co-60	<1.40E+01	0.00E+00	1.40E+01
		Zn-65	<2.35E+01	0.00E+00	2.35E+01
		Nb-95	<9.81E+00	0.00E+00	9.81E+00
		I-131	<1.07E+01	0.00E+00	1.07E+01
		Cs-134	<8.75E+00	0.00E+00	8.75E+00
		Cs-137	2.16E+01	4.40E+00	7.44E+00
		Be-7	<5.28E+01	0.00E+00	5.28E+01
		K-40	3.39E+03	1.49E+02	9.18E+01
		Ag-110M	<7.68E+00	0.00E+00	7.68E+00
		Sb-122	<2.07E+01	0.00E+00	2.07E+01
		Sb-125	<2.32E+01	0.00E+00	2.32E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269606	10/14/2013 - 10/14/2013	Mn-54	<3.52E+01	0.00E+00	3.52E+01
		Co-58	<2.90E+01	0.00E+00	2.90E+01
		Fe-59	<6.98E+01	0.00E+00	6.98E+01
		Co-60	<3.88E+01	0.00E+00	3.88E+01
		Zn-65	<5.89E+01	0.00E+00	5.89E+01
		Nb-95	<2.68E+01	0.00E+00	2.68E+01
		I-131	<3.73E+01	0.00E+00	3.73E+01
		Cs-134	<2.79E+01	0.00E+00	2.79E+01
		Cs-137	<3.61E+01	0.00E+00	3.61E+01
		Be-7	<2.36E+02	0.00E+00	2.36E+02
		K-40	4.66E+03	3.36E+02	2.52E+02
		Ag-110M	<2.49E+01	0.00E+00	2.49E+01
		Sb-122	<8.05E+01	0.00E+00	8.05E+01
		Sb-125	<8.00E+01	0.00E+00	8.00E+01

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255056	4/15/2013 - 4/15/2013	Mn-54	<1.54E+01	0.00E+00	1.54E+01
		Co-58	<1.04E+01	0.00E+00	1.04E+01
		Fe-59	<3.64E+01	0.00E+00	3.64E+01
		Co-60	<1.74E+01	0.00E+00	1.74E+01
		Zn-65	<3.13E+01	0.00E+00	3.13E+01
		Nb-95	<1.35E+01	0.00E+00	1.35E+01
		I-131	<1.37E+01	0.00E+00	1.37E+01
		Cs-134	<1.36E+01	0.00E+00	1.36E+01
		Cs-137	2.80E+01	6.64E+00	1.19E+01
		Be-7	<1.04E+02	0.00E+00	1.04E+02
		K-40	3.47E+03	1.94E+02	1.31E+02
		Ag-110M	<1.25E+01	0.00E+00	1.25E+01
		Sb-122	<2.78E+01	0.00E+00	2.78E+01
		Sb-125	<3.20E+01	0.00E+00	3.20E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269607	10/14/2013 - 10/14/2013	Mn-54	<6.83E+00	0.00E+00	6.83E+00
		Co-58	<6.50E+00	0.00E+00	6.50E+00
		Fe-59	<1.38E+01	0.00E+00	1.38E+01
		Co-60	<9.54E+00	0.00E+00	9.54E+00
		Zn-65	<1.71E+01	0.00E+00	1.71E+01
		Nb-95	<6.73E+00	0.00E+00	6.73E+00
		I-131	<6.60E+00	0.00E+00	6.60E+00
		Cs-134	<5.62E+00	0.00E+00	5.62E+00
		Cs-137	1.87E+01	3.36E+00	5.88E+00
		Be-7	<4.95E+01	0.00E+00	4.95E+01
		K-40	2.81E+03	1.06E+02	8.09E+01
		Ag-110M	<5.45E+00	0.00E+00	5.45E+00
		Sb-122	<1.54E+01	0.00E+00	1.54E+01
		Sb-125	<1.40E+01	0.00E+00	1.40E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255057	4/16/2013 - 4/16/2013	Mn-54	<1.29E+01	0.00E+00	1.29E+01
		Co-58	<1.63E+01	0.00E+00	1.63E+01
		Fe-59	<3.73E+01	0.00E+00	3.73E+01
		Co-60	<2.61E+01	0.00E+00	2.61E+01
		Zn-65	<3.79E+01	0.00E+00	3.79E+01
		Nb-95	<1.50E+01	0.00E+00	1.50E+01
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<1.38E+01	0.00E+00	1.38E+01
		Cs-137	2.04E+01	4.26E+00	1.17E+01
		Be-7	<7.61E+01	0.00E+00	7.61E+01
		K-40	3.49E+03	2.26E+02	1.37E+02
		Ag-110M	<1.02E+01	0.00E+00	1.02E+01
		Sb-122	<2.56E+01	0.00E+00	2.56E+01
		Sb-125	<3.51E+01	0.00E+00	3.51E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269608	10/15/2013 - 10/15/2013	Mn-54	<1.13E+01	0.00E+00	1.13E+01
		Co-58	<9.73E+00	0.00E+00	9.73E+00
		Fe-59	<2.85E+01	0.00E+00	2.85E+01
		Co-60	<1.14E+01	0.00E+00	1.14E+01
		Zn-65	<2.87E+01	0.00E+00	2.87E+01
		Nb-95	<1.14E+01	0.00E+00	1.14E+01
		I-131	<1.06E+01	0.00E+00	1.06E+01
		Cs-134	<1.01E+01	0.00E+00	1.01E+01
		Cs-137	<1.27E+01	0.00E+00	1.27E+01
		Be-7	<7.51E+01	0.00E+00	7.51E+01
		K-40	3.86E+03	1.72E+02	7.89E+01
		Ag-110M	<9.23E+00	0.00E+00	9.23E+00
		Sb-122	<1.71E+01	0.00E+00	1.71E+01
		Sb-125	<2.71E+01	0.00E+00	2.71E+01

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255058	4/15/2013 - 4/15/2013	Mn-54	<9.20E+00	0.00E+00	9.20E+00
		Co-58	<1.15E+01	0.00E+00	1.15E+01
		Fe-59	<2.96E+01	0.00E+00	2.96E+01
		Co-60	<1.68E+01	0.00E+00	1.68E+01
		Zn-65	<3.16E+01	0.00E+00	3.16E+01
		Nb-95	<1.16E+01	0.00E+00	1.16E+01
		I-131	<1.30E+01	0.00E+00	1.30E+01
		Cs-134	<8.34E+00	0.00E+00	8.34E+00
		Cs-137	3.67E+01	5.85E+00	9.62E+00
		Be-7	<1.14E+02	0.00E+00	1.14E+02
		K-40	3.84E+03	2.12E+02	1.24E+02
		Ag-110M	<1.16E+01	0.00E+00	1.16E+01
		Sb-122	<3.43E+01	0.00E+00	3.43E+01
		Sb-125	<2.88E+01	0.00E+00	2.88E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269609	10/14/2013 - 10/14/2013	Mn-54	<8.48E+00	0.00E+00	8.48E+00
		Co-58	<9.99E+00	0.00E+00	9.99E+00
		Fe-59	<2.36E+01	0.00E+00	2.36E+01
		Co-60	<1.12E+01	0.00E+00	1.12E+01
		Zn-65	<2.37E+01	0.00E+00	2.37E+01
		Nb-95	<1.06E+01	0.00E+00	1.06E+01
		I-131	<1.10E+01	0.00E+00	1.10E+01
		Cs-134	<9.31E+00	0.00E+00	9.31E+00
		Cs-137	1.86E+01	4.63E+00	9.96E+00
		Be-7	<7.76E+01	0.00E+00	7.76E+01
		K-40	4.81E+03	1.43E+02	8.12E+01
		Ag-110M	<9.21E+00	0.00E+00	9.21E+00
		Sb-122	<2.46E+01	0.00E+00	2.46E+01
		Sb-125	<2.55E+01	0.00E+00	2.55E+01

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255059	4/15/2013 - 4/15/2013	Mn-54	<1.07E+01	0.00E+00	1.07E+01
		Co-58	<9.30E+00	0.00E+00	9.30E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255059	4/15/2013 - 4/15/2013	Fe-59	<2.61E+01	0.00E+00	2.61E+01
		Co-60	<1.35E+01	0.00E+00	1.35E+01
		Zn-65	<2.11E+01	0.00E+00	2.11E+01
		Nb-95	<1.04E+01	0.00E+00	1.04E+01
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<9.64E+00	0.00E+00	9.64E+00
		Cs-137	2.47E+01	6.88E+00	1.03E+01
		Be-7	<7.58E+01	0.00E+00	7.58E+01
		K-40	3.55E+03	1.79E+02	1.12E+02
		Ag-110M	<1.09E+01	0.00E+00	1.09E+01
		Sb-122	<1.92E+01	0.00E+00	1.92E+01
		Sb-125	<2.74E+01	0.00E+00	2.74E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269610	10/14/2013 - 10/14/2013	Mn-54	<6.19E+00	0.00E+00	6.19E+00
		Co-58	<4.78E+00	0.00E+00	4.78E+00
		Fe-59	<1.50E+01	0.00E+00	1.50E+01
		Co-60	<8.65E+00	0.00E+00	8.65E+00
		Zn-65	<1.92E+01	0.00E+00	1.92E+01
		Nb-95	<7.22E+00	0.00E+00	7.22E+00
		I-131	<7.25E+00	0.00E+00	7.25E+00
		Cs-134	<6.22E+00	0.00E+00	6.22E+00
		Cs-137	1.82E+01	3.30E+00	5.91E+00
		Be-7	<4.37E+01	0.00E+00	4.37E+01
		K-40	3.64E+03	1.24E+02	6.40E+01
		Ag-110M	<6.01E+00	0.00E+00	6.01E+00
		Sb-122	<1.55E+01	0.00E+00	1.55E+01
		Sb-125	<1.73E+01	0.00E+00	1.73E+01

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

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250756	1/14/2013 - 1/14/2013	Be-7	<3.88E+00	0.00E+00	3.88E+00
		K-40	<1.20E+01	0.00E+00	1.20E+01
		LLI-131	<5.68E-01	0.00E+00	5.68E-01
		I-131	<6.87E+00	0.00E+00	6.87E+00
		Cs-134	<7.17E+00	0.00E+00	7.17E+00
		Cs-137	<9.01E+00	0.00E+00	9.01E+00
		BaLa-140	<9.18E+00	0.00E+00	9.18E+00
		Be-7	<5.97E+01	0.00E+00	5.97E+01
		K-40	1.33E+03	1.05E+02	9.08E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251290	1/28/2013 - 1/28/2013	Be-7	<3.87E+00	0.00E+00	3.87E+00
		K-40	<1.61E+01	0.00E+00	1.61E+01
		LLI-131	<5.90E-01	0.00E+00	5.90E-01
		I-131	<7.89E+00	0.00E+00	7.89E+00
		Cs-134	<7.48E+00	0.00E+00	7.48E+00
		Cs-137	<9.20E+00	0.00E+00	9.20E+00
		BaLa-140	<1.16E+01	0.00E+00	1.16E+01
		Be-7	<5.75E+01	0.00E+00	5.75E+01
		K-40	1.27E+03	9.76E+01	8.01E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252104	2/11/2013 - 2/11/2013	Be-7	<4.92E+00	0.00E+00	4.92E+00
		K-40	1.25E+01	3.86E+00	7.31E+00
		LLI-131	<6.11E-01	0.00E+00	6.11E-01
		I-131	<6.57E+00	0.00E+00	6.57E+00
		Cs-134	<6.45E+00	0.00E+00	6.45E+00
		Cs-137	<9.73E+00	0.00E+00	9.73E+00
		BaLa-140	<7.07E+00	0.00E+00	7.07E+00
		Be-7	<6.04E+01	0.00E+00	6.04E+01
		K-40	1.40E+03	1.08E+02	1.21E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253113	2/25/2013 - 2/25/2013	Be-7	<2.64E+00	0.00E+00	2.64E+00
		K-40	9.64E+00	2.69E+00	3.20E+00
		LLI-131	<5.16E-01	0.00E+00	5.16E-01
		I-131	<4.86E+00	0.00E+00	4.86E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253113	2/25/2013 - 2/25/2013	Cs-134	<4.33E+00	0.00E+00	4.33E+00
		Cs-137	<6.23E+00	0.00E+00	6.23E+00
		BaLa-140	<6.41E+00	0.00E+00	6.41E+00
		Be-7	<4.66E+01	0.00E+00	4.66E+01
		K-40	1.59E+03	7.85E+01	4.50E+01
254238	3/11/2013 - 3/11/2013	Be-7	<4.70E+00	0.00E+00	4.70E+00
		K-40	2.45E+01	4.46E+00	7.68E+00
		LLI-131	<6.32E-01	0.00E+00	6.32E-01
		I-131	<6.06E+00	0.00E+00	6.06E+00
		Cs-134	<7.84E+00	0.00E+00	7.84E+00
		Cs-137	<9.68E+00	0.00E+00	9.68E+00
		BaLa-140	<7.23E+00	0.00E+00	7.23E+00
		Be-7	<5.11E+01	0.00E+00	5.11E+01
K-40	1.35E+03	1.18E+02	9.70E+01		
255334	3/25/2013 - 3/25/2013	Be-7	<4.55E+00	0.00E+00	4.55E+00
		K-40	5.41E+01	5.15E+00	4.21E+00
		LLI-131	<6.49E-01	0.00E+00	6.49E-01
		I-131	<6.88E+00	0.00E+00	6.88E+00
		Cs-134	<4.53E+00	0.00E+00	4.53E+00
		Cs-137	<6.38E+00	0.00E+00	6.38E+00
		BaLa-140	<3.21E+00	0.00E+00	3.21E+00
		Be-7	<4.18E+01	0.00E+00	4.18E+01
K-40	1.64E+03	8.51E+01	4.39E+01		
256098	4/8/2013 - 4/8/2013	Be-7	<4.72E+00	0.00E+00	4.72E+00
		K-40	2.09E+01	4.14E+00	6.53E+00
		LLI-131	<5.82E-01	0.00E+00	5.82E-01
		I-131	<7.73E+00	0.00E+00	7.73E+00
		Cs-134	<6.08E+00	0.00E+00	6.08E+00
		Cs-137	<8.98E+00	0.00E+00	8.98E+00
		BaLa-140	<2.62E+00	0.00E+00	2.62E+00
		Be-7	<4.33E+01	0.00E+00	4.33E+01
K-40	1.35E+03	1.08E+02	9.15E+01		
256641	4/22/2013 - 4/22/2013	Be-7	<4.36E+00	0.00E+00	4.36E+00
		K-40	2.45E+01	3.76E+00	7.36E+00
		LLI-131	<6.48E-01	0.00E+00	6.48E-01
		I-131	<8.22E+00	0.00E+00	8.22E+00
		Cs-134	<7.45E+00	0.00E+00	7.45E+00
		Cs-137	<1.16E+01	0.00E+00	1.16E+01
		BaLa-140	<2.84E+00	0.00E+00	2.84E+00
		Be-7	<5.92E+01	0.00E+00	5.92E+01
K-40	1.48E+03	1.10E+02	8.52E+01		
257320	5/6/2013 - 5/6/2013	Be-7	<4.90E+00	0.00E+00	4.90E+00
		K-40	2.58E+01	4.18E+00	7.70E+00
		LLI-131	<6.32E-01	0.00E+00	6.32E-01
		I-131	<4.98E+00	0.00E+00	4.98E+00
		Cs-134	<5.14E+00	0.00E+00	5.14E+00
		Cs-137	<6.40E+00	0.00E+00	6.40E+00
		BaLa-140	<7.02E+00	0.00E+00	7.02E+00
		Be-7	<4.55E+01	0.00E+00	4.55E+01
K-40	1.66E+03	8.01E+01	4.86E+01		
258011	5/20/2013 - 5/20/2013	Be-7	<3.50E+00	0.00E+00	3.50E+00
		K-40	2.90E+01	4.94E+00	6.19E+00
		LLI-131	<6.09E-01	0.00E+00	6.09E-01
		I-131	<7.68E+00	0.00E+00	7.68E+00
		Cs-134	<8.11E+00	0.00E+00	8.11E+00
		Cs-137	<9.06E+00	0.00E+00	9.06E+00
		BaLa-140	<9.45E+00	0.00E+00	9.45E+00
		Be-7	<5.88E+01	0.00E+00	5.88E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258011	5/20/2013 - 5/20/2013	K-40	1.47E+03	1.10E+02	8.11E+01
258593	6/3/2013 - 6/3/2013	Be-7	<3.75E+00	0.00E+00	3.75E+00
		K-40	5.10E+01	4.80E+00	5.84E+00
		LLI-131	<5.55E-01	0.00E+00	5.55E-01
		I-131	<7.42E+00	0.00E+00	7.42E+00
		Cs-134	<6.36E+00	0.00E+00	6.36E+00
		Cs-137	<8.33E+00	0.00E+00	8.33E+00
		BaLa-140	<1.01E+01	0.00E+00	1.01E+01
		Be-7	<5.97E+01	0.00E+00	5.97E+01
		K-40	1.42E+03	9.72E+01	6.81E+01
259631	6/17/2013 - 6/17/2013	Be-7	<4.04E+00	0.00E+00	4.04E+00
		K-40	2.74E+01	3.83E+00	8.00E+00
		LLI-131	<5.71E-01	0.00E+00	5.71E-01
		I-131	<7.07E+00	0.00E+00	7.07E+00
		Cs-134	<8.62E+00	0.00E+00	8.62E+00
		Cs-137	<7.85E+00	0.00E+00	7.85E+00
		BaLa-140	<9.74E+00	0.00E+00	9.74E+00
		Be-7	<7.07E+01	0.00E+00	7.07E+01
		K-40	1.37E+03	1.10E+02	6.37E+01
260712	7/1/2013 - 7/1/2013	Be-7	<5.87E+00	0.00E+00	5.87E+00
		K-40	5.67E+01	5.12E+00	7.11E+00
		LLI-131	<6.28E-01	0.00E+00	6.28E-01
		I-131	<6.09E+00	0.00E+00	6.09E+00
		Cs-134	<4.07E+00	0.00E+00	4.07E+00
		Cs-137	<5.80E+00	0.00E+00	5.80E+00
		BaLa-140	<4.58E+00	0.00E+00	4.58E+00
		Be-7	<3.95E+01	0.00E+00	3.95E+01
		K-40	1.60E+03	8.40E+01	6.82E+01
262184	7/15/2013 - 7/15/2013	Be-7	<4.26E+00	0.00E+00	4.26E+00
		K-40	3.00E+01	5.32E+00	6.75E+00
		LLI-131	<6.49E-01	0.00E+00	6.49E-01
		I-131	<6.49E+00	0.00E+00	6.49E+00
		Cs-134	<7.10E+00	0.00E+00	7.10E+00
		Cs-137	<7.36E+00	0.00E+00	7.36E+00
		BaLa-140	<1.31E+01	0.00E+00	1.31E+01
		Be-7	<5.10E+01	0.00E+00	5.10E+01
		K-40	1.38E+03	1.02E+02	5.37E+01
263417	7/29/2013 - 7/29/2013	Be-7	<4.15E+00	0.00E+00	4.15E+00
		K-40	4.27E+01	5.49E+00	5.74E+00
		LLI-131	<5.23E-01	0.00E+00	5.23E-01
		I-131	<6.48E+00	0.00E+00	6.48E+00
		Cs-134	<5.40E+00	0.00E+00	5.40E+00
		Cs-137	<6.25E+00	0.00E+00	6.25E+00
		BaLa-140	<5.00E+00	0.00E+00	5.00E+00
		Be-7	<4.30E+01	0.00E+00	4.30E+01
		K-40	1.65E+03	8.53E+01	4.62E+01
265206	8/12/2013 - 8/12/2013	Be-7	<4.27E+00	0.00E+00	4.27E+00
		K-40	2.44E+01	4.47E+00	6.67E+00
		LLI-131	<6.46E-01	0.00E+00	6.46E-01
		I-131	<9.30E+00	0.00E+00	9.30E+00
		Cs-134	<4.59E+00	0.00E+00	4.59E+00
		Cs-137	<8.05E+00	0.00E+00	8.05E+00
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<7.15E+01	0.00E+00	7.15E+01
		K-40	1.34E+03	1.08E+02	1.12E+02
267201	8/26/2013 - 8/26/2013	Be-7	<3.91E+00	0.00E+00	3.91E+00
		K-40	1.94E+01	3.30E+00	6.59E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
267201	8/26/2013 - 8/26/2013	LLI-131	<6.14E-01	0.00E+00	6.14E-01
		I-131	<7.84E+00	0.00E+00	7.84E+00
		Cs-134	<7.91E+00	0.00E+00	7.91E+00
		Cs-137	<9.38E+00	0.00E+00	9.38E+00
		BaLa-140	<7.72E+00	0.00E+00	7.72E+00
		Be-7	<6.60E+01	0.00E+00	6.60E+01
		K-40	1.66E+03	1.21E+02	9.88E+01
268511	9/9/2013 - 9/9/2013	Be-7	<4.25E+00	0.00E+00	4.25E+00
		K-40	2.17E+01	3.94E+00	6.22E+00
		LLI-131	<6.30E-01	0.00E+00	6.30E-01
		I-131	<5.38E+00	0.00E+00	5.38E+00
		Cs-134	<4.08E+00	0.00E+00	4.08E+00
		Cs-137	<5.41E+00	0.00E+00	5.41E+00
		BaLa-140	<6.66E+00	0.00E+00	6.66E+00
		Be-7	<5.17E+01	0.00E+00	5.17E+01
		K-40	1.57E+03	8.32E+01	5.49E+01
		270776	9/23/2013 - 9/23/2013	Be-7	<5.11E+00
K-40	1.59E+01			5.14E+00	7.44E+00
LLI-131	<6.29E-01			0.00E+00	6.29E-01
I-131	<8.01E+00			0.00E+00	8.01E+00
Cs-134	<6.58E+00			0.00E+00	6.58E+00
Cs-137	<9.10E+00			0.00E+00	9.10E+00
BaLa-140	<8.99E+00			0.00E+00	8.99E+00
Be-7	<5.90E+01			0.00E+00	5.90E+01
K-40	1.35E+03			1.04E+02	6.83E+01
272108	10/7/2013 - 10/7/2013			Be-7	<4.20E+00
		K-40	4.71E+01	4.24E+00	6.21E+00
		LLI-131	<5.55E-01	0.00E+00	5.55E-01
		I-131	<5.71E+00	0.00E+00	5.71E+00
		Cs-134	<5.23E+00	0.00E+00	5.23E+00
		Cs-137	<7.17E+00	0.00E+00	7.17E+00
		BaLa-140	<1.57E+00	0.00E+00	1.57E+00
		Be-7	<5.57E+01	0.00E+00	5.57E+01
		K-40	1.66E+03	9.29E+01	7.41E+01
		272891	10/21/2013 - 10/21/2013	Be-7	<4.11E+00
K-40	2.09E+01			3.51E+00	6.58E+00
LLI-131	<5.17E-01			0.00E+00	5.17E-01
I-131	<8.79E+00			0.00E+00	8.79E+00
Cs-134	<9.82E+00			0.00E+00	9.82E+00
Cs-137	<9.17E+00			0.00E+00	9.17E+00
BaLa-140	<8.91E+00			0.00E+00	8.91E+00
Be-7	<6.41E+01			0.00E+00	6.41E+01
K-40	1.38E+03			1.17E+02	1.02E+02
274429	11/4/2013 - 11/4/2013			Be-7	<3.98E+00
		K-40	1.06E+01	3.90E+00	8.51E+00
		LLI-131	<6.12E-01	0.00E+00	6.12E-01
		I-131	<6.92E+00	0.00E+00	6.92E+00
		Cs-134	<5.69E+00	0.00E+00	5.69E+00
		Cs-137	<5.16E+00	0.00E+00	5.16E+00
		BaLa-140	<5.00E+00	0.00E+00	5.00E+00
		Be-7	<5.31E+01	0.00E+00	5.31E+01
		K-40	1.44E+03	7.83E+01	4.36E+01
		276497	11/18/2013 - 11/18/2013	Be-7	<3.87E+00
K-40	4.69E+01			4.29E+00	5.39E+00
LLI-131	<5.83E-01			0.00E+00	5.83E-01
I-131	<1.23E+01			0.00E+00	1.23E+01
Cs-134	<7.55E+00			0.00E+00	7.55E+00
Cs-137	<8.48E+00			0.00E+00	8.48E+00
BaLa-140	<1.35E+01			0.00E+00	1.35E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276497	11/18/2013 - 11/18/2013	Be-7	<6.39E+01	0.00E+00	6.39E+01
		K-40	1.50E+03	1.18E+02	8.69E+01
277495	12/2/2013 - 12/2/2013	Be-7	<2.56E+00	0.00E+00	2.56E+00
		K-40	1.31E+01	2.21E+00	2.99E+00
		LLI-131	<5.97E-01	0.00E+00	5.97E-01
		I-131	<8.14E+00	0.00E+00	8.14E+00
		Cs-134	<8.14E+00	0.00E+00	8.14E+00
		Cs-137	<9.63E+00	0.00E+00	9.63E+00
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<7.98E+01	0.00E+00	7.98E+01
		K-40	1.39E+03	1.18E+02	1.01E+02
278810	12/16/2013 - 12/16/2013	Be-7	<3.75E+00	0.00E+00	3.75E+00
		K-40	1.33E+01	3.16E+00	5.47E+00
		LLI-131	<4.77E-01	0.00E+00	4.77E-01
		I-131	<6.76E+00	0.00E+00	6.76E+00
		Cs-134	<5.49E+00	0.00E+00	5.49E+00
		Cs-137	<7.17E+00	0.00E+00	7.17E+00
		BaLa-140	<4.48E+00	0.00E+00	4.48E+00
		Be-7	<4.77E+01	0.00E+00	4.77E+01
		K-40	1.50E+03	8.09E+01	7.29E+01
279659	12/30/2013 - 12/30/2013	Be-7	<2.98E+00	0.00E+00	2.98E+00
		K-40	1.89E+01	2.60E+00	5.04E+00
		LLI-131	<6.36E-01	0.00E+00	6.36E-01
		I-131	<9.97E+00	0.00E+00	9.97E+00
		Cs-134	<6.84E+00	0.00E+00	6.84E+00
		Cs-137	<1.07E+01	0.00E+00	1.07E+01
		BaLa-140	<8.31E+00	0.00E+00	8.31E+00
		Be-7	<7.09E+01	0.00E+00	7.09E+01
		K-40	1.41E+03	1.11E+02	2.38E+01

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

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD		
255066	4/15/2013 - 4/15/2013	Mn-54	<3.16E+01	0.00E+00	3.16E+01		
		Co-58	<2.61E+01	0.00E+00	2.61E+01		
		Fe-59	<5.80E+01	0.00E+00	5.80E+01		
		Co-60	<3.21E+01	0.00E+00	3.21E+01		
		Zn-65	<7.38E+01	0.00E+00	7.38E+01		
		Zr-95	<5.33E+01	0.00E+00	5.33E+01		
		Nb-95	<2.94E+01	0.00E+00	2.94E+01		
		I-131	<2.56E+01	0.00E+00	2.56E+01		
		Cs-134	<2.32E+01	0.00E+00	2.32E+01		
		Cs-137	<2.73E+01	0.00E+00	2.73E+01		
		Be-7	<2.00E+02	0.00E+00	2.00E+02		
		K-40	2.79E+04	5.34E+02	2.57E+02		
		Co-57	<1.94E+01	0.00E+00	1.94E+01		
		Mo-99	<3.14E+02	0.00E+00	3.14E+02		
		Ag-110M	<2.57E+01	0.00E+00	2.57E+01		
		Sb-122	<5.63E+01	0.00E+00	5.63E+01		
		Sb-125	<6.71E+01	0.00E+00	6.71E+01		
		269617	10/21/2013 - 10/21/2013	Mn-54	<2.25E+01	0.00E+00	2.25E+01
				Co-58	<1.99E+01	0.00E+00	1.99E+01
Fe-59	<4.81E+01			0.00E+00	4.81E+01		
Co-60	<2.13E+01			0.00E+00	2.13E+01		
Zn-65	<4.99E+01			0.00E+00	4.99E+01		
Zr-95	<3.23E+01			0.00E+00	3.23E+01		
Nb-95	<2.08E+01			0.00E+00	2.08E+01		
I-131	<2.01E+01			0.00E+00	2.01E+01		
Cs-134	<1.38E+01			0.00E+00	1.38E+01		
Cs-137	<1.91E+01			0.00E+00	1.91E+01		
Be-7	1.95E+02	8.15E+01	1.28E+02				



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269617	10/21/2013 - 10/21/2013	K-40	2.34E+04	4.20E+02	1.62E+02
		Co-57	<1.35E+01	0.00E+00	1.35E+01
		Mo-99	<2.67E+02	0.00E+00	2.67E+02
		Ag-110M	<1.64E+01	0.00E+00	1.64E+01
		Sb-122	<4.98E+01	0.00E+00	4.98E+01
		Sb-125	<4.67E+01	0.00E+00	4.67E+01

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255067	4/15/2013 - 4/15/2013	Mn-54	<4.24E+01	0.00E+00	4.24E+01
		Co-58	<3.18E+01	0.00E+00	3.18E+01
		Fe-59	<6.48E+01	0.00E+00	6.48E+01
		Co-60	<3.81E+01	0.00E+00	3.81E+01
		Zn-65	<8.35E+01	0.00E+00	8.35E+01
		Zr-95	<7.10E+01	0.00E+00	7.10E+01
		Nb-95	<3.75E+01	0.00E+00	3.75E+01
		I-131	<3.97E+01	0.00E+00	3.97E+01
		Cs-134	<3.36E+01	0.00E+00	3.36E+01
		Cs-137	4.37E+01	1.82E+01	3.65E+01
		Be-7	<2.89E+02	0.00E+00	2.89E+02
		K-40	1.20E+04	4.64E+02	3.27E+02
		Co-57	<3.06E+01	0.00E+00	3.06E+01
		Mo-99	<4.97E+02	0.00E+00	4.97E+02
		Ag-110M	<3.89E+01	0.00E+00	3.89E+01
		Sb-122	<7.52E+01	0.00E+00	7.52E+01
		Sb-125	<9.45E+01	0.00E+00	9.45E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269618	10/21/2013 - 10/21/2013	Mn-54	<2.90E+01	0.00E+00	2.90E+01
		Co-58	<2.32E+01	0.00E+00	2.32E+01
		Fe-59	<6.72E+01	0.00E+00	6.72E+01
		Co-60	<3.27E+01	0.00E+00	3.27E+01
		Zn-65	<6.52E+01	0.00E+00	6.52E+01
		Zr-95	<5.40E+01	0.00E+00	5.40E+01
		Nb-95	<2.69E+01	0.00E+00	2.69E+01
		I-131	<3.16E+01	0.00E+00	3.16E+01
		Cs-134	<2.56E+01	0.00E+00	2.56E+01
		Cs-137	<3.31E+01	0.00E+00	3.31E+01
		Be-7	<2.39E+02	0.00E+00	2.39E+02
		K-40	1.47E+04	4.57E+02	2.18E+02
		Co-57	<2.04E+01	0.00E+00	2.04E+01
		Mo-99	<4.40E+02	0.00E+00	4.40E+02
		Ag-110M	<2.77E+01	0.00E+00	2.77E+01
		Sb-122	<7.39E+01	0.00E+00	7.39E+01
		Sb-125	<6.83E+01	0.00E+00	6.83E+01

Sample Point 068 [CONTROL - W @ 1.82 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255068	4/15/2013 - 4/15/2013	Mn-54	<2.23E+01	0.00E+00	2.23E+01
		Co-58	<1.86E+01	0.00E+00	1.86E+01
		Fe-59	<4.09E+01	0.00E+00	4.09E+01
		Co-60	<2.56E+01	0.00E+00	2.56E+01
		Zn-65	<4.21E+01	0.00E+00	4.21E+01
		Zr-95	<3.26E+01	0.00E+00	3.26E+01
		Nb-95	<1.86E+01	0.00E+00	1.86E+01
		I-131	<1.89E+01	0.00E+00	1.89E+01
		Cs-134	<1.67E+01	0.00E+00	1.67E+01
		Cs-137	<2.06E+01	0.00E+00	2.06E+01
		Be-7	<1.85E+02	0.00E+00	1.85E+02
		K-40	9.59E+03	3.74E+02	2.09E+02
		Co-57	<1.14E+01	0.00E+00	1.14E+01
		Mo-99	<1.97E+02	0.00E+00	1.97E+02
		Ag-110M	<1.86E+01	0.00E+00	1.86E+01
		Sb-122	<3.59E+01	0.00E+00	3.59E+01
		Sb-125	<4.63E+01	0.00E+00	4.63E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269619	10/21/2013 - 10/21/2013	Mn-54	<2.27E+01	0.00E+00	2.27E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 068 [CONTROL - W @ 1.82 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
269619	10/21/2013 - 10/21/2013	Co-58	<1.89E+01	0.00E+00	1.89E+01
		Fe-59	<4.51E+01	0.00E+00	4.51E+01
		Co-60	<1.88E+01	0.00E+00	1.88E+01
		Zn-65	<4.83E+01	0.00E+00	4.83E+01
		Zr-95	<3.67E+01	0.00E+00	3.67E+01
		Nb-95	<2.46E+01	0.00E+00	2.46E+01
		I-131	<2.16E+01	0.00E+00	2.16E+01
		Cs-134	<1.77E+01	0.00E+00	1.77E+01
		Cs-137	<2.19E+01	0.00E+00	2.19E+01
		Be-7	3.33E+02	7.23E+01	1.44E+02
		K-40	1.11E+04	3.23E+02	1.91E+02
		Co-57	<1.63E+01	0.00E+00	1.63E+01
		Mo-99	<3.18E+02	0.00E+00	3.18E+02
		Ag-110M	<1.92E+01	0.00E+00	1.92E+01
		Sb-122	<4.90E+01	0.00E+00	4.90E+01
		Sb-125	<4.53E+01	0.00E+00	4.53E+01

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

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250597	12/10/2012 - 1/7/2013	Mn-54	<3.61E+00	0.00E+00	3.61E+00
		Co-58	<4.08E+00	0.00E+00	4.08E+00
		Fe-59	<9.72E+00	0.00E+00	9.72E+00
		Co-60	<5.73E+00	0.00E+00	5.73E+00
		Zn-65	<8.29E+00	0.00E+00	8.29E+00
		Zr-95	<6.37E+00	0.00E+00	6.37E+00
		Nb-95	<5.47E+00	0.00E+00	5.47E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<3.92E+00	0.00E+00	3.92E+00
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<3.24E+01	0.00E+00	3.24E+01
		K-40	7.68E+01	1.76E+01	4.16E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251648	1/7/2013 - 2/4/2013	Mn-54	<3.82E+00	0.00E+00	3.82E+00
		Co-58	<4.76E+00	0.00E+00	4.76E+00
		Fe-59	<9.22E+00	0.00E+00	9.22E+00
		Co-60	<5.26E+00	0.00E+00	5.26E+00
		Zn-65	<9.00E+00	0.00E+00	9.00E+00
		Zr-95	<8.23E+00	0.00E+00	8.23E+00
		Nb-95	<5.07E+00	0.00E+00	5.07E+00
		I-131	<1.32E+01	0.00E+00	1.32E+01
		Cs-134	<4.11E+00	0.00E+00	4.11E+00
		Cs-137	<5.13E+00	0.00E+00	5.13E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	1.91E+02	2.19E+01	3.70E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253926	2/4/2013 - 3/4/2013	Mn-54	<3.78E+00	0.00E+00	3.78E+00
		Co-58	<4.22E+00	0.00E+00	4.22E+00
		Fe-59	<9.00E+00	0.00E+00	9.00E+00
		Co-60	<3.82E+00	0.00E+00	3.82E+00
		Zn-65	<7.37E+00	0.00E+00	7.37E+00
		Zr-95	<6.58E+00	0.00E+00	6.58E+00
		Nb-95	<4.74E+00	0.00E+00	4.74E+00
		I-131	<1.42E+01	0.00E+00	1.42E+01
		Cs-134	<3.08E+00	0.00E+00	3.08E+00
		Cs-137	<3.75E+00	0.00E+00	3.75E+00
		BaLa-140	<7.34E+00	0.00E+00	7.34E+00
		Be-7	<3.15E+01	0.00E+00	3.15E+01
		K-40	1.61E+02	2.42E+01	3.07E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253044	12/10/2012 - 3/4/2013	H3SW	<4.8E+00	0.00E+00	1.77E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255872	3/4/2013 - 4/1/2013	Mn-54	<5.07E+00	0.00E+00	5.07E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255872	3/4/2013 - 4/1/2013	Co-58	<4.08E+00	0.00E+00	4.08E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<5.01E+00	0.00E+00	5.01E+00
		Zn-65	<8.14E+00	0.00E+00	8.14E+00
		Zr-95	<8.35E+00	0.00E+00	8.35E+00
		Nb-95	<4.46E+00	0.00E+00	4.46E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.53E+00	0.00E+00	3.53E+00
		Cs-137	<4.94E+00	0.00E+00	4.94E+00
		BaLa-140	<1.13E+01	0.00E+00	1.13E+01
		Be-7	<3.89E+01	0.00E+00	3.89E+01
		K-40	<6.79E+01	0.00E+00	6.79E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257061	4/1/2013 - 4/29/2013	Mn-54	<5.16E+00	0.00E+00	5.16E+00
		Co-58	<6.70E+00	0.00E+00	6.70E+00
		Fe-59	<1.58E+01	0.00E+00	1.58E+01
		Co-60	<6.57E+00	0.00E+00	6.57E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<8.01E+00	0.00E+00	8.01E+00
		Nb-95	<7.70E+00	0.00E+00	7.70E+00
		I-131	<1.36E+01	0.00E+00	1.36E+01
		Cs-134	<4.38E+00	0.00E+00	4.38E+00
		Cs-137	<5.86E+00	0.00E+00	5.86E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<4.59E+01	0.00E+00	4.59E+01
		K-40	3.06E+01	2.01E+01	5.01E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258256	4/29/2013 - 5/28/2013	Mn-54	<4.12E+00	0.00E+00	4.12E+00
		Co-58	<6.03E+00	0.00E+00	6.03E+00
		Fe-59	<1.37E+01	0.00E+00	1.37E+01
		Co-60	<5.43E+00	0.00E+00	5.43E+00
		Zn-65	<1.18E+01	0.00E+00	1.18E+01
		Zr-95	<8.95E+00	0.00E+00	8.95E+00
		Nb-95	<5.84E+00	0.00E+00	5.84E+00
		I-131	<1.39E+01	0.00E+00	1.39E+01
		Cs-134	<4.87E+00	0.00E+00	4.87E+00
		Cs-137	<4.88E+00	0.00E+00	4.88E+00
		BaLa-140	<1.23E+01	0.00E+00	1.23E+01
		Be-7	<4.28E+01	0.00E+00	4.28E+01
		K-40	<9.79E+01	0.00E+00	9.79E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
258164	3/4/2013 - 5/28/2013	H3SW	<1.20E+02	0.00E+00	1.70E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
260262	5/28/2013 - 6/24/2013	Mn-54	<2.87E+00	0.00E+00	2.87E+00
		Co-58	<3.42E+00	0.00E+00	3.42E+00
		Fe-59	<7.65E+00	0.00E+00	7.65E+00
		Co-60	<3.70E+00	0.00E+00	3.70E+00
		Zn-65	<6.54E+00	0.00E+00	6.54E+00
		Zr-95	<5.74E+00	0.00E+00	5.74E+00
		Nb-95	<4.51E+00	0.00E+00	4.51E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<2.64E+00	0.00E+00	2.64E+00
		Cs-137	<3.33E+00	0.00E+00	3.33E+00
		BaLa-140	<6.83E+00	0.00E+00	6.83E+00
		Be-7	<2.44E+01	0.00E+00	2.44E+01
		K-40	6.74E+01	1.71E+01	2.47E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257174	6/24/2013 - 7/22/2013	Mn-54	<5.32E+00	0.00E+00	5.32E+00
		Co-58	<4.62E+00	0.00E+00	4.62E+00
		Fe-59	<9.27E+00	0.00E+00	9.27E+00
		Co-60	<4.30E+00	0.00E+00	4.30E+00
		Zn-65	<1.00E+01	0.00E+00	1.00E+01
		Zr-95	<8.90E+00	0.00E+00	8.90E+00
		Nb-95	<6.78E+00	0.00E+00	6.78E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257174	6/24/2013 - 7/22/2013	Cs-134	<3.66E+00	0.00E+00	3.66E+00
		Cs-137	<5.13E+00	0.00E+00	5.13E+00
		BaLa-140	<1.29E+01	0.00E+00	1.29E+01
		Be-7	<5.01E+01	0.00E+00	5.01E+01
		K-40	1.30E+02	3.17E+01	6.23E+01
263201	7/22/2013 - 8/19/2013	Mn-54	<3.43E+00	0.00E+00	3.43E+00
		Co-58	<4.47E+00	0.00E+00	4.47E+00
		Fe-59	<8.82E+00	0.00E+00	8.82E+00
		Co-60	<6.19E+00	0.00E+00	6.19E+00
		Zn-65	<8.25E+00	0.00E+00	8.25E+00
		Zr-95	<8.18E+00	0.00E+00	8.18E+00
		Nb-95	<4.08E+00	0.00E+00	4.08E+00
		I-131	<1.35E+01	0.00E+00	1.35E+01
		Cs-134	<3.30E+00	0.00E+00	3.30E+00
		Cs-137	<3.64E+00	0.00E+00	3.64E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.05E+01	0.00E+00	3.05E+01
		K-40	<6.76E+01	0.00E+00	6.76E+01
		266924	5/28/2013 - 8/19/2013	H3SW	<-5.4E+01
265525	8/19/2013 - 9/16/2013	Mn-54	<4.22E+00	0.00E+00	4.22E+00
		Co-58	<4.07E+00	0.00E+00	4.07E+00
		Fe-59	<6.26E+00	0.00E+00	6.26E+00
		Co-60	<4.99E+00	0.00E+00	4.99E+00
		Zn-65	<8.42E+00	0.00E+00	8.42E+00
		Zr-95	<5.22E+00	0.00E+00	5.22E+00
		Nb-95	<4.74E+00	0.00E+00	4.74E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<3.20E+00	0.00E+00	3.20E+00
		Cs-137	<3.84E+00	0.00E+00	3.84E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<3.05E+01	0.00E+00	3.05E+01
		K-40	5.25E+01	1.82E+01	5.75E+01
		269680	9/16/2013 - 10/14/2013	Mn-54	<3.77E+00
Co-58	<4.08E+00			0.00E+00	4.08E+00
Fe-59	<6.77E+00			0.00E+00	6.77E+00
Co-60	<4.79E+00			0.00E+00	4.79E+00
Zn-65	<5.89E+00			0.00E+00	5.89E+00
Zr-95	<6.26E+00			0.00E+00	6.26E+00
Nb-95	<5.13E+00			0.00E+00	5.13E+00
I-131	<1.36E+01			0.00E+00	1.36E+01
Cs-134	<3.64E+00			0.00E+00	3.64E+00
Cs-137	<4.07E+00			0.00E+00	4.07E+00
BaLa-140	<1.02E+01			0.00E+00	1.02E+01
Be-7	<3.06E+01			0.00E+00	3.06E+01
K-40	4.95E+01			1.98E+01	3.46E+01
272502	10/14/2013 - 11/11/2013			Mn-54	<3.52E+00
		Co-58	<4.08E+00	0.00E+00	4.08E+00
		Fe-59	<8.99E+00	0.00E+00	8.99E+00
		Co-60	<4.09E+00	0.00E+00	4.09E+00
		Zn-65	<6.46E+00	0.00E+00	6.46E+00
		Zr-95	<6.52E+00	0.00E+00	6.52E+00
		Nb-95	<4.89E+00	0.00E+00	4.89E+00
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<3.28E+00	0.00E+00	3.28E+00
		BaLa-140	<8.17E+00	0.00E+00	8.17E+00
		Be-7	<3.64E+01	0.00E+00	3.64E+01
		K-40	1.53E+02	2.55E+01	3.40E+01
		274953	11/11/2013 - 12/9/2013	Mn-54	<2.69E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274953	11/11/2013 - 12/9/2013	Co-58	<2.88E+00	0.00E+00	2.88E+00
		Fe-59	<8.16E+00	0.00E+00	8.16E+00
		Co-60	<2.81E+00	0.00E+00	2.81E+00
		Zn-65	<5.18E+00	0.00E+00	5.18E+00
		Zr-95	<5.69E+00	0.00E+00	5.69E+00
		Nb-95	<3.66E+00	0.00E+00	3.66E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<3.15E+00	0.00E+00	3.15E+00
		Cs-137	<2.83E+00	0.00E+00	2.83E+00
		BaLa-140	<6.93E+00	0.00E+00	6.93E+00
		Be-7	<2.89E+01	0.00E+00	2.89E+01
		K-40	1.36E+02	2.28E+01	2.62E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276941	8/19/2013 - 12/9/2013	H3SW	<5.06E+01	0.00E+00	1.51E+02

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250598	12/10/2012 - 1/7/2013	Mn-54	<3.69E+00	0.00E+00	3.69E+00
		Co-58	<4.29E+00	0.00E+00	4.29E+00
		Fe-59	<7.83E+00	0.00E+00	7.83E+00
		Co-60	<4.69E+00	0.00E+00	4.69E+00
		Zn-65	<7.64E+00	0.00E+00	7.64E+00
		Zr-95	<7.99E+00	0.00E+00	7.99E+00
		Nb-95	<4.84E+00	0.00E+00	4.84E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.43E+00	0.00E+00	3.43E+00
		Cs-137	<4.00E+00	0.00E+00	4.00E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<3.79E+01	0.00E+00	3.79E+01
		K-40	1.86E+02	2.10E+01	3.50E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
251649	1/7/2013 - 2/4/2013	Mn-54	<3.97E+00	0.00E+00	3.97E+00
		Co-58	<3.61E+00	0.00E+00	3.61E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<6.06E+00	0.00E+00	6.06E+00
		Zn-65	<7.80E+00	0.00E+00	7.80E+00
		Zr-95	<7.74E+00	0.00E+00	7.74E+00
		Nb-95	<4.04E+00	0.00E+00	4.04E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.95E+00	0.00E+00	3.95E+00
		Cs-137	<4.20E+00	0.00E+00	4.20E+00
		BaLa-140	<9.42E+00	0.00E+00	9.42E+00
		Be-7	<3.85E+01	0.00E+00	3.85E+01
		K-40	<7.25E+01	0.00E+00	7.25E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253927	3/4/2013 - 3/4/2013	Mn-54	<7.86E+00	0.00E+00	7.86E+00
		Co-58	<8.20E+00	0.00E+00	8.20E+00
		Fe-59	<1.81E+01	0.00E+00	1.81E+01
		Co-60	<9.60E+00	0.00E+00	9.60E+00
		Zn-65	<2.06E+01	0.00E+00	2.06E+01
		Zr-95	<1.34E+01	0.00E+00	1.34E+01
		Nb-95	<1.31E+01	0.00E+00	1.31E+01
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<8.94E+00	0.00E+00	8.94E+00
		Cs-137	<8.97E+00	0.00E+00	8.97E+00
		BaLa-140	<1.45E+01	0.00E+00	1.45E+01
		Be-7	<7.20E+01	0.00E+00	7.20E+01
		K-40	<1.36E+02	0.00E+00	1.36E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
253045	12/10/2012 - 3/4/2013	H3SW	1.29E+03	7.35E+01	1.76E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255873	3/4/2013 - 4/1/2013	Mn-54	<3.87E+00	0.00E+00	3.87E+00
		Co-58	<3.35E+00	0.00E+00	3.35E+00
		Fe-59	<8.97E+00	0.00E+00	8.97E+00
		Co-60	<4.34E+00	0.00E+00	4.34E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD		
255873	3/4/2013 - 4/1/2013	Zn-65	<8.38E+00	0.00E+00	8.38E+00		
		Zr-95	<7.04E+00	0.00E+00	7.04E+00		
		Nb-95	<5.46E+00	0.00E+00	5.46E+00		
		I-131	<1.44E+01	0.00E+00	1.44E+01		
		Cs-134	<3.64E+00	0.00E+00	3.64E+00		
		Cs-137	<3.76E+00	0.00E+00	3.76E+00		
		BaLa-140	<9.86E+00	0.00E+00	9.86E+00		
		Be-7	<3.20E+01	0.00E+00	3.20E+01		
		K-40	1.04E+02	2.14E+01	3.32E+01		
		257062	4/1/2013 - 4/29/2013	Mn-54	<3.71E+00	0.00E+00	3.71E+00
				Co-58	<3.88E+00	0.00E+00	3.88E+00
Fe-59	<9.05E+00			0.00E+00	9.05E+00		
Co-60	<3.83E+00			0.00E+00	3.83E+00		
Zn-65	<7.52E+00			0.00E+00	7.52E+00		
Zr-95	<8.22E+00			0.00E+00	8.22E+00		
Nb-95	<4.49E+00			0.00E+00	4.49E+00		
I-131	<1.38E+01			0.00E+00	1.38E+01		
Cs-134	<3.53E+00			0.00E+00	3.53E+00		
Cs-137	<3.58E+00			0.00E+00	3.58E+00		
BaLa-140	<8.77E+00			0.00E+00	8.77E+00		
Be-7	<3.41E+01			0.00E+00	3.41E+01		
K-40	1.68E+02			2.01E+01	3.29E+01		
258257	4/29/2013 - 5/28/2013			Mn-54	<3.30E+00	0.00E+00	3.30E+00
		Co-58	<3.92E+00	0.00E+00	3.92E+00		
		Fe-59	<9.15E+00	0.00E+00	9.15E+00		
		Co-60	<4.91E+00	0.00E+00	4.91E+00		
		Zn-65	<7.36E+00	0.00E+00	7.36E+00		
		Zr-95	<7.38E+00	0.00E+00	7.38E+00		
		Nb-95	<4.80E+00	0.00E+00	4.80E+00		
		I-131	<1.41E+01	0.00E+00	1.41E+01		
		Cs-134	<3.39E+00	0.00E+00	3.39E+00		
		Cs-137	<3.78E+00	0.00E+00	3.78E+00		
		BaLa-140	<9.12E+00	0.00E+00	9.12E+00		
		Be-7	<3.53E+01	0.00E+00	3.53E+01		
		K-40	1.38E+01	1.64E+01	3.91E+01		
		258165	3/4/2013 - 5/28/2013	Nuclide	Activity	1 Sigma Error	LLD
H3SW	4.18E+03			1.04E+02	1.70E+02		
260263	5/28/2013 - 6/24/2013	Mn-54	<4.35E+00	0.00E+00	4.35E+00		
		Co-58	<5.09E+00	0.00E+00	5.09E+00		
		Fe-59	<7.62E+00	0.00E+00	7.62E+00		
		Co-60	<5.71E+00	0.00E+00	5.71E+00		
		Zn-65	<1.00E+01	0.00E+00	1.00E+01		
		Zr-95	<8.36E+00	0.00E+00	8.36E+00		
		Nb-95	<6.40E+00	0.00E+00	6.40E+00		
		I-131	<1.41E+01	0.00E+00	1.41E+01		
		Cs-134	<3.77E+00	0.00E+00	3.77E+00		
		Cs-137	<5.06E+00	0.00E+00	5.06E+00		
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01		
		Be-7	<4.51E+01	0.00E+00	4.51E+01		
		K-40	1.08E+02	2.64E+01	5.77E+01		
		257175	6/24/2013 - 7/22/2013	Mn-54	<3.68E+00	0.00E+00	3.68E+00
Co-58	<3.82E+00			0.00E+00	3.82E+00		
Fe-59	<7.84E+00			0.00E+00	7.84E+00		
Co-60	<5.03E+00			0.00E+00	5.03E+00		
Zn-65	<7.83E+00			0.00E+00	7.83E+00		
Zr-95	<7.37E+00			0.00E+00	7.37E+00		
Nb-95	<4.08E+00			0.00E+00	4.08E+00		
I-131	<1.28E+01			0.00E+00	1.28E+01		
Cs-134	<3.51E+00			0.00E+00	3.51E+00		
Cs-137	<3.66E+00			0.00E+00	3.66E+00		
BaLa-140	<8.92E+00			0.00E+00	8.92E+00		



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257175	6/24/2013 - 7/22/2013	Be-7	<3.13E+01	0.00E+00	3.13E+01
		K-40	8.00E+01	2.13E+01	3.28E+01
263202	7/22/2013 - 8/19/2013	Mn-54	<3.60E+00	0.00E+00	3.60E+00
		Co-58	<3.44E+00	0.00E+00	3.44E+00
		Fe-59	<8.54E+00	0.00E+00	8.54E+00
		Co-60	<5.22E+00	0.00E+00	5.22E+00
		Zn-65	<7.28E+00	0.00E+00	7.28E+00
		Zr-95	<7.41E+00	0.00E+00	7.41E+00
		Nb-95	<5.03E+00	0.00E+00	5.03E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<3.92E+00	0.00E+00	3.92E+00
		Cs-137	<4.02E+00	0.00E+00	4.02E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<3.46E+01	0.00E+00	3.46E+01
		K-40	2.22E+02	2.44E+01	2.83E+01
266925	5/28/2013 - 8/19/2013	H3SW	1.37E+03	6.81E+01	1.55E+02
265526	8/19/2013 - 9/16/2013	Mn-54	<3.01E+00	0.00E+00	3.01E+00
		Co-58	<4.12E+00	0.00E+00	4.12E+00
		Fe-59	<9.79E+00	0.00E+00	9.79E+00
		Co-60	<4.90E+00	0.00E+00	4.90E+00
		Zn-65	<9.21E+00	0.00E+00	9.21E+00
		Zr-95	<7.01E+00	0.00E+00	7.01E+00
		Nb-95	<5.96E+00	0.00E+00	5.96E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<4.02E+00	0.00E+00	4.02E+00
		Cs-137	<4.30E+00	0.00E+00	4.30E+00
		BaLa-140	<1.28E+01	0.00E+00	1.28E+01
		Be-7	<3.91E+01	0.00E+00	3.91E+01
		K-40	<7.02E+01	0.00E+00	7.02E+01
269681	9/16/2013 - 10/14/2013	Mn-54	<5.44E+00	0.00E+00	5.44E+00
		Co-58	<3.62E+00	0.00E+00	3.62E+00
		Fe-59	<7.94E+00	0.00E+00	7.94E+00
		Co-60	<4.00E+00	0.00E+00	4.00E+00
		Zn-65	<6.35E+00	0.00E+00	6.35E+00
		Zr-95	<6.44E+00	0.00E+00	6.44E+00
		Nb-95	<4.40E+00	0.00E+00	4.40E+00
		I-131	<1.34E+01	0.00E+00	1.34E+01
		Cs-134	<2.79E+00	0.00E+00	2.79E+00
		Cs-137	<3.62E+00	0.00E+00	3.62E+00
		BaLa-140	<6.86E+00	0.00E+00	6.86E+00
		Be-7	<3.14E+01	0.00E+00	3.14E+01
		K-40	6.56E+01	1.72E+01	3.79E+01
272503	10/14/2013 - 11/11/2013	Mn-54	<3.60E+00	0.00E+00	3.60E+00
		Co-58	<4.25E+00	0.00E+00	4.25E+00
		Fe-59	<9.28E+00	0.00E+00	9.28E+00
		Co-60	<4.40E+00	0.00E+00	4.40E+00
		Zn-65	<8.63E+00	0.00E+00	8.63E+00
		Zr-95	<7.00E+00	0.00E+00	7.00E+00
		Nb-95	<5.38E+00	0.00E+00	5.38E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<3.40E+00	0.00E+00	3.40E+00
		Cs-137	<3.75E+00	0.00E+00	3.75E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<3.41E+01	0.00E+00	3.41E+01
		K-40	<7.06E+01	0.00E+00	7.06E+01
274954	11/11/2013 - 12/9/2013	Mn-54	<3.38E+00	0.00E+00	3.38E+00
		Co-58	<3.42E+00	0.00E+00	3.42E+00
		Fe-59	<7.16E+00	0.00E+00	7.16E+00
		Co-60	<3.58E+00	0.00E+00	3.58E+00



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
274954	11/11/2013 - 12/9/2013	Zn-65	<6.09E+00	0.00E+00	6.09E+00
		Zr-95	<6.28E+00	0.00E+00	6.28E+00
		Nb-95	<3.47E+00	0.00E+00	3.47E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<2.68E+00	0.00E+00	2.68E+00
		Cs-137	<3.05E+00	0.00E+00	3.05E+00
		BaLa-140	<7.20E+00	0.00E+00	7.20E+00
		Be-7	<2.99E+01	0.00E+00	2.99E+01
		K-40	9.25E+01	1.46E+01	2.36E+01

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
276942	8/19/2013 - 12/9/2013	H3SW	7.89E+03	1.31E+02	1.50E+02

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

Sample Point 020 [INDICATOR - N @ 0.16 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254380	12/11/2012 - 3/19/2013	mR/Std Qtr	22.3
259249	3/19/2013 - 6/18/2013	mR/Std Qtr	19.0
268923	6/18/2013 - 9/17/2013	mR/Std Qtr	18.0
279202	9/17/2013 - 12/17/2013	mR/Std Qtr	20.0

Sample Point 021 [INDICATOR - NNE @ 0.25 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254381	12/11/2012 - 3/19/2013	mR/Std Qtr	16.7
259250	3/19/2013 - 6/18/2013	mR/Std Qtr	15.0
268924	6/18/2013 - 9/17/2013	mR/Std Qtr	14.0
279203	9/17/2013 - 12/17/2013	mR/Std Qtr	14.0

Sample Point 022 [INDICATOR - NE @ 0.53 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254382	12/11/2012 - 3/19/2013	mR/Std Qtr	26.9
259251	3/19/2013 - 6/18/2013	mR/Std Qtr	23.0
268925	6/18/2013 - 9/17/2013	mR/Std Qtr	21.0
279204	9/17/2013 - 12/17/2013	mR/Std Qtr	23.0

Sample Point 023 [INDICATOR - ENE @ 0.93 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254383	12/11/2012 - 3/19/2013	mR/Std Qtr	26.0
259252	3/19/2013 - 6/18/2013	mR/Std Qtr	22.0
268926	6/18/2013 - 9/17/2013	mR/Std Qtr	20.0
279205	9/17/2013 - 12/17/2013	mR/Std Qtr	23.0

Sample Point 024 [INDICATOR - E @ 0.79 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254384	12/11/2012 - 3/19/2013	mR/Std Qtr	28.8



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 024 [INDICATOR - E @ 0.79 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
259253	3/19/2013 - 6/18/2013	mR/Std Qtr	24.0
268927	6/18/2013 - 9/17/2013	mR/Std Qtr	23.0
279206	9/17/2013 - 12/17/2013	mR/Std Qtr	25.0

Sample Point 025 [INDICATOR - ESE @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254385	12/11/2012 - 3/19/2013	mR/Std Qtr	21.4
259254	3/19/2013 - 6/18/2013	mR/Std Qtr	17.0
268928	6/18/2013 - 9/17/2013	mR/Std Qtr	17.0
279207	9/17/2013 - 12/17/2013	mR/Std Qtr	18.0

Sample Point 026 [INDICATOR - SE @ 0.34 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254387	12/11/2012 - 3/19/2013	mR/Std Qtr	18.6
259256	3/19/2013 - 6/18/2013	mR/Std Qtr	17.0
268930	6/18/2013 - 9/17/2013	mR/Std Qtr	16.0
279209	9/17/2013 - 12/17/2013	mR/Std Qtr	17.0

Sample Point 027 [INDICATOR - SSE @ 0.49 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254388	12/11/2012 - 3/19/2013	mR/Std Qtr	23.2
259257	3/19/2013 - 6/18/2013	mR/Std Qtr	19.0
268931	6/18/2013 - 9/17/2013	mR/Std Qtr	19.0
279210	9/17/2013 - 12/17/2013	mR/Std Qtr	20.0

Sample Point 028 [INDICATOR - S @ 0.46 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254389	12/11/2012 - 3/19/2013	mR/Std Qtr	19.5
259258	3/19/2013 - 6/18/2013	mR/Std Qtr	16.0
268932	6/18/2013 - 9/17/2013	mR/Std Qtr	16.0
279211	9/17/2013 - 12/17/2013	mR/Std Qtr	18.0

Sample Point 029 [INDICATOR - SSW @ 0.56 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254390	12/11/2012 - 3/19/2013	mR/Std Qtr	17.6
259259	3/19/2013 - 6/18/2013	mR/Std Qtr	15.0
268933	6/18/2013 - 9/17/2013	mR/Std Qtr	15.0



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 029 [INDICATOR - SSW @ 0.56 miles]

TLD RING TLD_INNER

Sample ID:	279212	Sample Dates:	9/17/2013 - 12/17/2013	Nuclide	Activity
				mR/Std Qtr	16.0

Sample Point 030 [INDICATOR - SW @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	254391	Sample Dates:	12/11/2012 - 3/19/2013	Nuclide	Activity
				mR/Std Qtr	19.5

Sample ID:	259260	Sample Dates:	3/19/2013 - 6/18/2013	Nuclide	Activity
				mR/Std Qtr	17.0

Sample ID:	268934	Sample Dates:	6/18/2013 - 9/17/2013	Nuclide	Activity
				mR/Std Qtr	18.0

Sample ID:	279213	Sample Dates:	9/17/2013 - 12/17/2013	Nuclide	Activity
				mR/Std Qtr	18.0

Sample Point 031 [INDICATOR - WSW @ 0.27 miles]

TLD RING TLD_INNER

Sample ID:	254392	Sample Dates:	12/11/2012 - 3/19/2013	Nuclide	Activity
				mR/Std Qtr	19.5

Sample ID:	259261	Sample Dates:	3/19/2013 - 6/18/2013	Nuclide	Activity
				mR/Std Qtr	17.0

Sample ID:	268935	Sample Dates:	6/18/2013 - 9/17/2013	Nuclide	Activity
				mR/Std Qtr	16.0

Sample ID:	279214	Sample Dates:	9/17/2013 - 12/17/2013	Nuclide	Activity
				mR/Std Qtr	17.0

Sample Point 032 [INDICATOR - WNW @ 0.19 miles]

TLD RING TLD_INNER

Sample ID:	254393	Sample Dates:	12/11/2012 - 3/19/2013	Nuclide	Activity
				mR/Std Qtr	26.0

Sample ID:	259262	Sample Dates:	3/19/2013 - 6/18/2013	Nuclide	Activity
				mR/Std Qtr	22.0

Sample ID:	268936	Sample Dates:	6/18/2013 - 9/17/2013	Nuclide	Activity
				mR/Std Qtr	17.0

Sample ID:	279215	Sample Dates:	9/17/2013 - 12/17/2013	Nuclide	Activity
				mR/Std Qtr	18.0

Sample Point 033 [INDICATOR - WNW @ 0.21 miles]

TLD RING TLD_INNER

Sample ID:	254394	Sample Dates:	12/11/2012 - 3/19/2013	Nuclide	Activity
				mR/Std Qtr	23.2

Sample ID:	259263	Sample Dates:	3/19/2013 - 6/18/2013	Nuclide	Activity
				mR/Std Qtr	19.0

Sample ID:	268937	Sample Dates:	6/18/2013 - 9/17/2013	Nuclide	Activity
				mR/Std Qtr	18.0

Sample ID:	279216	Sample Dates:	9/17/2013 - 12/17/2013	Nuclide	Activity
				mR/Std Qtr	19.0

Sample Point 034 [INDICATOR - NW @ 0.22 miles]

TLD RING TLD_INNER

Sample ID:	254395	Sample Dates:	12/11/2012 - 3/19/2013	Nuclide	Activity
				mR/Std Qtr	25.1

Sample ID:	259264	Sample Dates:	3/19/2013 - 6/18/2013	Nuclide	Activity
				mR/Std Qtr	22.0

Sample ID:	268938	Sample Dates:	6/18/2013 - 9/17/2013	Nuclide	Activity
				mR/Std Qtr	21.0

Sample ID:	279217	Sample Dates:	9/17/2013 - 12/17/2013	Nuclide	Activity
				mR/Std Qtr	23.0

Sample Point 035 [INDICATOR - NNW @ 0.17 miles]

TLD RING TLD_INNER

Sample ID:	254396	Sample Dates:	12/11/2012 - 3/19/2013	Nuclide	Activity
				mR/Std Qtr	29.7

OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 035 [INDICATOR - NNW @ 0.17 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
259265	3/19/2013 - 6/18/2013	mR/Std Qtr	24.0
268939	6/18/2013 - 9/17/2013	mR/Std Qtr	24.0
279218	9/17/2013 - 12/17/2013	mR/Std Qtr	24.0

Sample Point 036 [INDICATOR - N @ 4.18 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254397	12/11/2012 - 3/19/2013	mR/Std Qtr	27.9
259266	3/19/2013 - 6/18/2013	mR/Std Qtr	25.0
268940	6/18/2013 - 9/17/2013	mR/Std Qtr	24.0
279219	9/17/2013 - 12/17/2013	mR/Std Qtr	28.0

Sample Point 037 [INDICATOR - NNE @ 4.85 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254398	12/11/2012 - 3/19/2013	mR/Std Qtr	24.1
259267	3/19/2013 - 6/18/2013	mR/Std Qtr	21.0
268941	6/18/2013 - 9/17/2013	mR/Std Qtr	21.0
279220	9/17/2013 - 12/17/2013	mR/Std Qtr	22.0

Sample Point 038 [INDICATOR - NE @ 4.24 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254399	12/11/2012 - 3/19/2013	mR/Std Qtr	26.0
259268	3/19/2013 - 6/18/2013	mR/Std Qtr	21.0
268942	6/18/2013 - 9/17/2013	mR/Std Qtr	20.0
279221	9/17/2013 - 12/17/2013	mR/Std Qtr	23.0

Sample Point 039 [INDICATOR - ENE @ 4.02 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254400	12/11/2012 - 3/19/2013	mR/Std Qtr	27.9
259269	3/19/2013 - 6/18/2013	mR/Std Qtr	26.0
268943	6/18/2013 - 9/17/2013	mR/Std Qtr	23.0
279222	9/17/2013 - 12/17/2013	mR/Std Qtr	24.0

Sample Point 040 [INDICATOR - E @ 4.74 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254401	12/11/2012 - 3/19/2013	mR/Std Qtr	29.7
259270	3/19/2013 - 6/18/2013	mR/Std Qtr	26.0
279223	9/17/2013 - 12/17/2013	mR/Std Qtr	27.0



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 041 [INDICATOR - ESE @ 4.25 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254418	12/11/2012 - 3/19/2013	mR/Std Qtr	21.4
259287	3/19/2013 - 6/18/2013	mR/Std Qtr	17.0
268961	6/18/2013 - 9/17/2013	mR/Std Qtr	17.0
279240	9/17/2013 - 12/17/2013	mR/Std Qtr	17.0

Sample Point 042 [INDICATOR - SE @ 4.93 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254402	12/11/2012 - 3/19/2013	mR/Std Qtr	29.7
259271	3/19/2013 - 6/18/2013	mR/Std Qtr	26.0
268945	6/18/2013 - 9/17/2013	mR/Std Qtr	24.0
279224	9/17/2013 - 12/17/2013	mR/Std Qtr	27.0

Sample Point 043 [INDICATOR - SSE @ 4.09 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254403	12/11/2012 - 3/19/2013	mR/Std Qtr	26.0
259272	3/19/2013 - 6/18/2013	mR/Std Qtr	24.0
268946	6/18/2013 - 9/17/2013	mR/Std Qtr	23.0
279225	9/17/2013 - 12/17/2013	mR/Std Qtr	26.0

Sample Point 044 [INDICATOR - S @ 3.96 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254404	12/11/2012 - 3/19/2013	mR/Std Qtr	24.1
259273	3/19/2013 - 6/18/2013	mR/Std Qtr	20.0
268947	6/18/2013 - 9/17/2013	mR/Std Qtr	20.0
279226	9/17/2013 - 12/17/2013	mR/Std Qtr	21.0

Sample Point 045 [INDICATOR - SSW @ 4.78 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254405	12/11/2012 - 3/19/2013	mR/Std Qtr	18.6
259274	3/19/2013 - 6/18/2013	mR/Std Qtr	16.0
268948	6/18/2013 - 9/17/2013	mR/Std Qtr	16.0
279227	9/17/2013 - 12/17/2013	mR/Std Qtr	17.0

Sample Point 046 [INDICATOR - SW @ 4.61 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254406	12/11/2012 - 3/19/2013	mR/Std Qtr	26.9
259275	3/19/2013 - 6/18/2013	mR/Std Qtr	23.0



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 046 [INDICATOR - SW @ 4.61 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
268949	6/18/2013 - 9/17/2013	mR/Std Qtr	22.0
279228	9/17/2013 - 12/17/2013	mR/Std Qtr	25.0

Sample Point 047 [INDICATOR - WSW @ 3.58 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254407	12/11/2012 - 3/19/2013	mR/Std Qtr	26.0
259276	3/19/2013 - 6/18/2013	mR/Std Qtr	22.0
268950	6/18/2013 - 9/17/2013	mR/Std Qtr	22.0
279229	9/17/2013 - 12/17/2013	mR/Std Qtr	22.0

Sample Point 048 [INDICATOR - W @ 3.64 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254408	12/11/2012 - 3/19/2013	mR/Std Qtr	27.9
259277	3/19/2013 - 6/18/2013	mR/Std Qtr	26.0
268951	6/18/2013 - 9/17/2013	mR/Std Qtr	23.0
279230	9/17/2013 - 12/17/2013	mR/Std Qtr	26.0

Sample Point 049 [INDICATOR - WNW @ 3.6 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254409	12/11/2012 - 3/19/2013	mR/Std Qtr	25.1
259278	3/19/2013 - 6/18/2013	mR/Std Qtr	21.0
268952	6/18/2013 - 9/17/2013	mR/Std Qtr	20.0
279231	9/17/2013 - 12/17/2013	mR/Std Qtr	21.0

Sample Point 050 [INDICATOR - NW @ 3.53 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254410	12/11/2012 - 3/19/2013	mR/Std Qtr	23.2
259279	3/19/2013 - 6/18/2013	mR/Std Qtr	18.0
268953	6/18/2013 - 9/17/2013	mR/Std Qtr	17.0
279232	9/17/2013 - 12/17/2013	mR/Std Qtr	20.0

Sample Point 051 [INDICATOR - NNW @ 4.64 miles]

TLD RING TLD_OUTER

Sample ID:	Sample Dates:	Nuclide	Activity
254411	12/11/2012 - 3/19/2013	mR/Std Qtr	21.4
259280	3/19/2013 - 6/18/2013	mR/Std Qtr	19.0
268954	6/18/2013 - 9/17/2013	mR/Std Qtr	18.0
279233	9/17/2013 - 12/17/2013	mR/Std Qtr	21.0



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 052 [INDICATOR - ENE @ 12.4 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254412	12/11/2012 - 3/19/2013	mR/Std Qtr	26.9
259281	3/19/2013 - 6/18/2013	mR/Std Qtr	23.0
268955	6/18/2013 - 9/17/2013	mR/Std Qtr	22.0
279234	9/17/2013 - 12/17/2013	mR/Std Qtr	24.0

Sample Point 053 [INDICATOR - E @ 11.7 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254413	12/11/2012 - 3/19/2013	mR/Std Qtr	28.8
259282	3/19/2013 - 6/18/2013	mR/Std Qtr	25.0
268956	6/18/2013 - 9/17/2013	mR/Std Qtr	24.0
279235	9/17/2013 - 12/17/2013	mR/Std Qtr	27.0

Sample Point 054 [INDICATOR - ESE @ 8.6 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254414	12/11/2012 - 3/19/2013	mR/Std Qtr	21.4
259283	3/19/2013 - 6/18/2013	mR/Std Qtr	19.0
268957	6/18/2013 - 9/17/2013	mR/Std Qtr	19.0
279236	9/17/2013 - 12/17/2013	mR/Std Qtr	21.0

Sample Point 055 [INDICATOR - SSE @ 9.27 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254415	12/11/2012 - 3/19/2013	mR/Std Qtr	17.6
259284	3/19/2013 - 6/18/2013	mR/Std Qtr	15.0
268958	6/18/2013 - 9/17/2013	mR/Std Qtr	14.0
279237	9/17/2013 - 12/17/2013	mR/Std Qtr	16.0

Sample Point 056 [INDICATOR - SSW @ 7.3 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254416	12/11/2012 - 3/19/2013	mR/Std Qtr	25.1
259285	3/19/2013 - 6/18/2013	mR/Std Qtr	24.0
268959	6/18/2013 - 9/17/2013	mR/Std Qtr	24.0
279238	9/17/2013 - 12/17/2013	mR/Std Qtr	24.0

Sample Point 057 [INDICATOR - SW @ 8.42 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254417	12/11/2012 - 3/19/2013	mR/Std Qtr	27.9
259286	3/19/2013 - 6/18/2013	mR/Std Qtr	23.0



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 057 [INDICATOR - SW @ 8.42 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
268960	6/18/2013 - 9/17/2013	mR/Std Qtr	23.0
279239	9/17/2013 - 12/17/2013	mR/Std Qtr	25.0

Sample Point 058 [CONTROL - WSW @ 9.39 miles]

TLD RING TLD_CTRL

Sample ID:	Sample Dates:	Nuclide	Activity
254419	12/11/2012 - 3/19/2013	mR/Std Qtr	35.3
259288	3/19/2013 - 6/18/2013	mR/Std Qtr	30.0
268962	6/18/2013 - 9/17/2013	mR/Std Qtr	29.0
279241	9/17/2013 - 12/17/2013	mR/Std Qtr	31.0

Sample Point 059 [INDICATOR - NW @ 9.2 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
254420	12/11/2012 - 3/19/2013	mR/Std Qtr	27.9
259289	3/19/2013 - 6/18/2013	mR/Std Qtr	25.0
268963	6/18/2013 - 9/17/2013	mR/Std Qtr	24.0
279242	9/17/2013 - 12/17/2013	mR/Std Qtr	26.0

Sample Point 076 [INDICATOR - W @ 0.19 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
254421	12/11/2012 - 3/19/2013	mR/Std Qtr	26.0
259290	3/19/2013 - 6/18/2013	mR/Std Qtr	22.0
268964	6/18/2013 - 9/17/2013	mR/Std Qtr	21.0
279243	9/17/2013 - 12/17/2013	mR/Std Qtr	24.0

Sample Point 081 [CONTROL - SE @ 9.33 miles]

TLD RING TLD_CTRL

Sample ID:	Sample Dates:	Nuclide	Activity
254422	12/11/2012 - 3/19/2013	mR/Std Qtr	26.0
259291	3/19/2013 - 6/18/2013	mR/Std Qtr	22.0
268965	6/18/2013 - 9/17/2013	mR/Std Qtr	21.0
279244	9/17/2013 - 12/17/2013	mR/Std Qtr	26.0

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249994	1/7/2013 - 1/7/2013	I-131	<3.78E+01	0.00E+00	3.78E+01
		Cs-134	<4.36E+01	0.00E+00	4.36E+01
		Cs-137	<5.19E+01	0.00E+00	5.19E+01
		Be-7	1.80E+03	1.84E+02	2.52E+02
		K-40	3.77E+03	4.60E+02	5.21E+02
250952	2/4/2013 - 2/4/2013	I-131	<3.60E+01	0.00E+00	3.60E+01
		Cs-134	<4.25E+01	0.00E+00	4.25E+01
		Cs-137	<3.81E+01	0.00E+00	3.81E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250952	2/4/2013 - 2/4/2013	Be-7	1.71E+03	2.39E+02	2.85E+02
		K-40	2.02E+03	3.55E+02	3.60E+02
252697	3/4/2013 - 3/4/2013	I-131	<5.92E+01	0.00E+00	5.92E+01
		Cs-134	<4.73E+01	0.00E+00	4.73E+01
		Cs-137	<6.71E+01	0.00E+00	6.71E+01
		Be-7	2.69E+03	3.17E+02	3.90E+02
		K-40	2.80E+03	5.24E+02	8.87E+02
255039	4/1/2013 - 4/1/2013	I-131	<2.73E+01	0.00E+00	2.73E+01
		Cs-134	<2.96E+01	0.00E+00	2.96E+01
		Cs-137	<3.26E+01	0.00E+00	3.26E+01
		Be-7	3.00E+03	2.12E+02	2.04E+02
		K-40	3.99E+03	3.17E+02	3.65E+02
256528	5/6/2013 - 5/6/2013	I-131	<1.58E+01	0.00E+00	1.58E+01
		Cs-134	<1.63E+01	0.00E+00	1.63E+01
		Cs-137	<2.00E+01	0.00E+00	2.00E+01
		Be-7	1.18E+03	9.91E+01	1.24E+02
		K-40	3.13E+03	2.04E+02	1.62E+02
257927	6/3/2013 - 6/3/2013	I-131	<3.10E+01	0.00E+00	3.10E+01
		Cs-134	<2.26E+01	0.00E+00	2.26E+01
		Cs-137	<3.67E+01	0.00E+00	3.67E+01
		Be-7	6.93E+02	1.74E+02	2.35E+02
		K-40	3.49E+03	3.30E+02	4.07E+02
259620	7/1/2013 - 7/1/2013	I-131	<1.98E+01	0.00E+00	1.98E+01
		Cs-134	<2.16E+01	0.00E+00	2.16E+01
		Cs-137	<2.50E+01	0.00E+00	2.50E+01
		Be-7	7.80E+02	1.17E+02	1.67E+02
		K-40	3.15E+03	2.59E+02	1.70E+02
262850	8/5/2013 - 8/5/2013	I-131	<2.81E+01	0.00E+00	2.81E+01
		Cs-134	<2.39E+01	0.00E+00	2.39E+01
		Cs-137	<2.84E+01	0.00E+00	2.84E+01
		Be-7	1.76E+03	1.55E+02	2.04E+02
		K-40	3.79E+03	3.64E+02	4.02E+02
265427	9/3/2013 - 9/3/2013	I-131	<1.59E+01	0.00E+00	1.59E+01
		Cs-134	<1.50E+01	0.00E+00	1.50E+01
		Cs-137	<1.93E+01	0.00E+00	1.93E+01
		Be-7	2.06E+03	1.17E+02	1.12E+02
		K-40	3.38E+03	2.22E+02	1.97E+02
269587	10/7/2013 - 10/7/2013	I-131	<2.04E+01	0.00E+00	2.04E+01
		Cs-134	<2.49E+01	0.00E+00	2.49E+01
		Cs-137	<2.25E+01	0.00E+00	2.25E+01
		Be-7	1.85E+03	1.67E+02	2.04E+02
		K-40	3.08E+03	2.42E+02	1.72E+02
272535	11/4/2013 - 11/4/2013	I-131	<3.54E+01	0.00E+00	3.54E+01
		Cs-134	<3.86E+01	0.00E+00	3.86E+01
		Cs-137	<3.04E+01	0.00E+00	3.04E+01
		Be-7	1.33E+03	1.80E+02	2.33E+02
		K-40	1.79E+03	3.29E+02	4.29E+02
277491	12/2/2013 - 12/2/2013	I-131	<3.89E+01	0.00E+00	3.89E+01
		Cs-134	<3.77E+01	0.00E+00	3.77E+01
		Cs-137	<2.99E+01	0.00E+00	2.99E+01
		Be-7	3.85E+03	2.93E+02	2.81E+02
		K-40	3.49E+03	3.70E+02	2.96E+02



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249996	1/7/2013 - 1/7/2013	I-131	<3.63E+01	0.00E+00	3.63E+01
		Cs-134	<3.78E+01	0.00E+00	3.78E+01
		Cs-137	<4.60E+01	0.00E+00	4.60E+01
		Be-7	1.02E+03	1.91E+02	2.69E+02
		K-40	2.91E+03	4.46E+02	6.62E+02
250954	2/4/2013 - 2/4/2013	I-131	<2.12E+01	0.00E+00	2.12E+01
		Cs-134	<2.45E+01	0.00E+00	2.45E+01
		Cs-137	<2.61E+01	0.00E+00	2.61E+01
		Be-7	3.47E+03	1.87E+02	1.63E+02
		K-40	4.04E+03	3.28E+02	2.93E+02
252699	3/4/2013 - 3/4/2013	I-131	<3.49E+01	0.00E+00	3.49E+01
		Cs-134	<4.99E+01	0.00E+00	4.99E+01
		Cs-137	<4.62E+01	0.00E+00	4.62E+01
		Be-7	8.19E+02	1.73E+02	2.49E+02
		K-40	2.11E+03	3.47E+02	4.25E+02
255041	4/1/2013 - 4/1/2013	I-131	<2.82E+01	0.00E+00	2.82E+01
		Cs-134	<2.64E+01	0.00E+00	2.64E+01
		Cs-137	<3.29E+01	0.00E+00	3.29E+01
		Be-7	4.01E+03	2.30E+02	1.96E+02
		K-40	4.13E+03	3.48E+02	2.84E+02
256530	5/6/2013 - 5/6/2013	I-131	<2.48E+01	0.00E+00	2.48E+01
		Cs-134	<2.35E+01	0.00E+00	2.35E+01
		Cs-137	<3.00E+01	0.00E+00	3.00E+01
		Be-7	3.46E+02	1.06E+02	1.57E+02
		K-40	3.81E+03	3.22E+02	3.28E+02
257929	6/3/2013 - 6/3/2013	I-131	<2.47E+01	0.00E+00	2.47E+01
		Cs-134	<2.22E+01	0.00E+00	2.22E+01
		Cs-137	<2.57E+01	0.00E+00	2.57E+01
		Be-7	4.06E+02	8.62E+01	2.08E+02
		K-40	4.81E+03	3.20E+02	2.81E+02
259622	7/1/2013 - 7/1/2013	I-131	<2.35E+01	0.00E+00	2.35E+01
		Cs-134	<2.51E+01	0.00E+00	2.51E+01
		Cs-137	<3.48E+01	0.00E+00	3.48E+01
		Be-7	7.36E+02	1.18E+02	2.17E+02
		K-40	4.09E+03	3.27E+02	2.33E+02
262852	8/5/2013 - 8/5/2013	I-131	<2.77E+01	0.00E+00	2.77E+01
		Cs-134	<2.43E+01	0.00E+00	2.43E+01
		Cs-137	<2.16E+01	0.00E+00	2.16E+01
		Be-7	1.24E+03	1.53E+02	1.56E+02
		K-40	4.16E+03	3.05E+02	2.67E+02
265429	9/3/2013 - 9/3/2013	I-131	<3.55E+01	0.00E+00	3.55E+01
		Cs-134	<2.85E+01	0.00E+00	2.85E+01
		Cs-137	<3.86E+01	0.00E+00	3.86E+01
		Be-7	1.21E+03	1.84E+02	2.67E+02
		K-40	2.71E+03	3.36E+02	2.59E+02
269589	10/7/2013 - 10/7/2013	I-131	<3.10E+01	0.00E+00	3.10E+01
		Cs-134	<2.99E+01	0.00E+00	2.99E+01
		Cs-137	<4.73E+01	0.00E+00	4.73E+01
		Be-7	1.07E+03	2.15E+02	2.98E+02
		K-40	2.87E+03	3.76E+02	3.64E+02
272537	11/4/2013 - 11/4/2013	I-131	<2.70E+01	0.00E+00	2.70E+01
		Cs-134	<2.36E+01	0.00E+00	2.36E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
272537	11/4/2013 - 11/4/2013	Cs-137	<2.48E+01	0.00E+00	2.48E+01
		Be-7	1.18E+03	1.25E+02	1.70E+02
		K-40	4.64E+03	2.88E+02	1.86E+02
		I-131	<2.17E+01	0.00E+00	2.17E+01
277492	12/2/2013 - 12/2/2013	Cs-134	<1.70E+01	0.00E+00	1.70E+01
		Cs-137	<2.18E+01	0.00E+00	2.18E+01
		Be-7	1.60E+03	1.41E+02	1.69E+02
		K-40	3.79E+03	2.63E+02	1.81E+02
		I-131	<2.17E+01	0.00E+00	2.17E+01

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249997	1/7/2013 - 1/7/2013	I-131	<2.32E+01	0.00E+00	2.32E+01
		Cs-134	<2.34E+01	0.00E+00	2.34E+01
		Cs-137	<2.97E+01	0.00E+00	2.97E+01
		Be-7	1.19E+03	1.46E+02	1.94E+02
		K-40	4.48E+03	3.22E+02	2.38E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
250955	2/4/2013 - 2/4/2013	I-131	<2.49E+01	0.00E+00	2.49E+01
		Cs-134	<1.90E+01	0.00E+00	1.90E+01
		Cs-137	<3.28E+01	0.00E+00	3.28E+01
		Be-7	1.35E+03	1.41E+02	1.94E+02
		K-40	3.88E+03	3.22E+02	3.03E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
252700	3/4/2013 - 3/4/2013	I-131	<3.72E+01	0.00E+00	3.72E+01
		Cs-134	<3.01E+01	0.00E+00	3.01E+01
		Cs-137	<4.35E+01	0.00E+00	4.35E+01
		Be-7	9.49E+02	1.48E+02	2.73E+02
		K-40	4.11E+03	3.83E+02	4.07E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
255042	4/1/2013 - 4/1/2013	I-131	<2.45E+01	0.00E+00	2.45E+01
		Cs-134	<2.53E+01	0.00E+00	2.53E+01
		Cs-137	<2.93E+01	0.00E+00	2.93E+01
		Be-7	2.77E+03	1.85E+02	2.07E+02
		K-40	4.83E+03	3.36E+02	2.13E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
256531	5/6/2013 - 5/6/2013	I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<1.37E+01	0.00E+00	1.37E+01
		Cs-137	<1.84E+01	0.00E+00	1.84E+01
		Be-7	4.38E+02	7.28E+01	1.14E+02
		K-40	2.83E+03	2.34E+02	1.98E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
257930	6/3/2013 - 6/3/2013	I-131	<2.26E+01	0.00E+00	2.26E+01
		Cs-134	<2.27E+01	0.00E+00	2.27E+01
		Cs-137	<2.44E+01	0.00E+00	2.44E+01
		Be-7	3.34E+02	1.40E+02	2.53E+02
		K-40	3.36E+03	3.52E+02	2.76E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
259623	7/1/2013 - 7/1/2013	I-131	<1.96E+01	0.00E+00	1.96E+01
		Cs-134	<1.44E+01	0.00E+00	1.44E+01
		Cs-137	<1.95E+01	0.00E+00	1.95E+01
		Be-7	7.72E+02	9.44E+01	1.61E+02
		K-40	4.52E+03	2.87E+02	1.88E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
262853	8/5/2013 - 8/5/2013	I-131	<2.91E+01	0.00E+00	2.91E+01
		Cs-134	<2.26E+01	0.00E+00	2.26E+01
		Cs-137	<3.65E+01	0.00E+00	3.65E+01
		Be-7	1.94E+03	1.95E+02	2.28E+02
		K-40	3.01E+03	3.55E+02	3.90E+02

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265430	9/3/2013 - 9/3/2013	I-131	<2.23E+01	0.00E+00	2.23E+01
		Cs-134	<1.76E+01	0.00E+00	1.76E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
265430	9/3/2013 - 9/3/2013	Cs-137	<2.46E+01	0.00E+00	2.46E+01
		Be-7	2.02E+03	1.46E+02	1.70E+02
		K-40	2.41E+03	2.36E+02	1.96E+02
269590	10/7/2013 - 10/7/2013	I-131	<1.76E+01	0.00E+00	1.76E+01
		Cs-134	<1.72E+01	0.00E+00	1.72E+01
		Cs-137	<2.02E+01	0.00E+00	2.02E+01
		Be-7	1.22E+03	1.25E+02	1.26E+02
		K-40	3.56E+03	2.44E+02	2.04E+02
272538	11/4/2013 - 11/4/2013	I-131	<4.48E+01	0.00E+00	4.48E+01
		Cs-134	<3.38E+01	0.00E+00	3.38E+01
		Cs-137	<4.30E+01	0.00E+00	4.30E+01
		Be-7	3.88E+02	1.29E+02	2.60E+02
		K-40	4.34E+03	4.95E+02	5.35E+02
277493	12/2/2013 - 12/2/2013	I-131	<3.28E+01	0.00E+00	3.28E+01
		Cs-134	<2.04E+01	0.00E+00	2.04E+01
		Cs-137	<4.75E+01	0.00E+00	4.75E+01
		Be-7	2.20E+02	6.78E+01	2.45E+02
		K-40	2.75E+03	4.25E+02	4.41E+02

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
249998	1/7/2013 - 1/7/2013	I-131	<2.03E+01	0.00E+00	2.03E+01
		Cs-134	<2.07E+01	0.00E+00	2.07E+01
		Cs-137	<2.96E+01	0.00E+00	2.96E+01
		Be-7	4.26E+03	2.05E+02	1.56E+02
		K-40	3.63E+03	2.88E+02	2.08E+02
250956	2/4/2013 - 2/4/2013	I-131	<3.13E+01	0.00E+00	3.13E+01
		Cs-134	<3.38E+01	0.00E+00	3.38E+01
		Cs-137	<4.61E+01	0.00E+00	4.61E+01
		Be-7	6.01E+03	3.71E+02	2.48E+02
		K-40	2.94E+03	4.20E+02	3.36E+02
252701	3/4/2013 - 3/4/2013	I-131	<3.50E+01	0.00E+00	3.50E+01
		Cs-134	<2.48E+01	0.00E+00	2.48E+01
		Cs-137	2.57E+01	1.03E+01	3.22E+01
		Be-7	2.67E+03	2.06E+02	2.72E+02
		K-40	1.63E+03	2.84E+02	5.11E+02
255043	4/1/2013 - 4/1/2013	I-131	<2.21E+01	0.00E+00	2.21E+01
		Cs-134	<1.45E+01	0.00E+00	1.45E+01
		Cs-137	<2.66E+01	0.00E+00	2.66E+01
		Be-7	5.70E+03	2.53E+02	1.81E+02
		K-40	3.43E+03	3.25E+02	2.81E+02
256532	5/6/2013 - 5/6/2013	I-131	<2.85E+01	0.00E+00	2.85E+01
		Cs-134	<2.72E+01	0.00E+00	2.72E+01
		Cs-137	<2.48E+01	0.00E+00	2.48E+01
		Be-7	8.87E+02	1.66E+02	2.11E+02
		K-40	2.70E+03	3.08E+02	4.05E+02
257931	6/3/2013 - 6/3/2013	I-131	<1.57E+01	0.00E+00	1.57E+01
		Cs-134	<1.48E+01	0.00E+00	1.48E+01
		Cs-137	<2.03E+01	0.00E+00	2.03E+01
		Be-7	5.05E+02	9.82E+01	1.57E+02
		K-40	2.18E+03	2.14E+02	2.38E+02
259624	7/1/2013 - 7/1/2013	I-131	<2.93E+01	0.00E+00	2.93E+01
		Cs-134	<2.41E+01	0.00E+00	2.41E+01



OCONEE Radiological Environmental Monitoring Analysis Report - 2013 (Appendix E)

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

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	1 Sigma Error	LLD
259624	7/1/2013 - 7/1/2013	Cs-137	<2.86E+01	0.00E+00	2.86E+01
		Be-7	7.63E+02	1.15E+02	1.35E+02
		K-40	1.92E+03	2.43E+02	3.77E+02
262854	8/5/2013 - 8/5/2013	I-131	<2.20E+01	0.00E+00	2.20E+01
		Cs-134	<2.30E+01	0.00E+00	2.30E+01
		Cs-137	<3.25E+01	0.00E+00	3.25E+01
		Be-7	2.10E+03	1.68E+02	2.07E+02
		K-40	2.74E+03	2.80E+02	2.60E+02
265431	9/3/2013 - 9/3/2013	I-131	<2.57E+01	0.00E+00	2.57E+01
		Cs-134	<2.55E+01	0.00E+00	2.55E+01
		Cs-137	<3.26E+01	0.00E+00	3.26E+01
		Be-7	1.02E+03	1.73E+02	2.85E+02
		K-40	1.94E+03	2.77E+02	3.67E+02
269591	10/7/2013 - 10/7/2013	I-131	<2.78E+01	0.00E+00	2.78E+01
		Cs-134	<3.14E+01	0.00E+00	3.14E+01
		Cs-137	<3.21E+01	0.00E+00	3.21E+01
		Be-7	9.38E+02	1.64E+02	2.57E+02
		K-40	3.10E+03	3.08E+02	3.29E+02
272539	11/4/2013 - 11/4/2013	I-131	<4.36E+01	0.00E+00	4.36E+01
		Cs-134	<3.89E+01	0.00E+00	3.89E+01
		Cs-137	<4.10E+01	0.00E+00	4.10E+01
		Be-7	1.80E+03	2.21E+02	3.43E+02
		K-40	4.90E+03	4.54E+02	5.67E+02
277494	12/2/2013 - 12/2/2013	I-131	<3.37E+01	0.00E+00	3.37E+01
		Cs-134	<3.10E+01	0.00E+00	3.10E+01
		Cs-137	<3.73E+01	0.00E+00	3.73E+01
		Be-7	3.32E+03	2.72E+02	3.02E+02
		K-40	3.52E+03	3.71E+02	1.06E+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.