Southern Nuclear

Cheryl A. Gayheart
Regulatory Affairs Director

3535 Colonnade Parkway
Birmingham, AL 35243
205 992 5316

cagayhea@southernco.com

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ATTN: Document Control Desk
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Edwin I. Hatch Nuclear Plant – Units 1 & 2
Joseph M. Farley Nuclear Plant – Units 1 & 2
Vogtle Electric Generating Plant – Units 1 & 2
Annual Radiological Environmental Operating Reports for 2020

Ladies and Gentlemen:

In accordance with section 5.6.2 of the referenced plants' Technical Specifications, Southern Nuclear Operating Company hereby submits the Annual Radiological Environmental Operating Reports for 2020.

This letter contains no NRC commitments. If you have any questions, please contact Jamie Coleman at 205.992.6611.

Respectfully submitted,

Cheryl A. Gayheart
Regulatory Affairs Director

CAG/kgl/cg

Enclosures:
1. Hatch Annual Radiological Environmental Operating Report for 2020
2. Farley Annual Radiological Environmental Operating Report for 2020
3. Vogtle Annual Radiological Environmental Operating Report for 2020

cc: Regional Administrator, Region ll
NRR Project Manager – Farley, Hatch, Vogtle 1 & 2
Senior Resident Inspector – Farley, Hatch, Vogtle 1 & 2
RType: CGA02.001
State of Alabama Department of Public Health, Office of Radiation Control
State of Georgia Department of Natural Resources
American Nuclear Insurers

Edwin I. Hatch Nuclear Plant – Units 1 & 2
Joseph M. Farley Nuclear Plant – Units 1 & 2
Vogtle Electric Generating Plant – Units 1 & 2
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Enclosure 1

Hatch Annual Radiological Environmental Operating Report for 2020

EDWIN I. HATCH NUCLEAR PLANT
2020 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Southern Nuclear

TABLE OF CONTENTS

Tables

Figures

Appendix A – Maps

Appendix B – Errata

Appendix C – Data

LIST OF ACRONYMS

AREOR	Annual Radiological Environmental Operating Report
BWR	Boiling Water Reactor
CL	Confidence Level
GPC	Georgia Power Company
GPCEL	Georgia Power Company Environmental Laboratory
HNP	Edwin I. Hatch Nuclear Plant
ICP	Interlaboratory Comparison Program
MDC	Minimum Detectable Concentration
MDD	Minimum Detectable Difference
MWt	MegaWatts Thermal
NA	Not Applicable
NDM	No Detectable Measurement(s)
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
OSLD	Optically Stimulated Luminescence
REMP	Radiological Environmental Monitoring Program
RL	Reporting Level
RM	River Mile
SNC	Southern Nuclear Operating Company
TLD	Thermoluminescent Dosimeter
TS	Technical Specification

1 INTRODUCTION

The Radiological Environmental Monitoring Program (REMP) was conducted in accordance with Chapter 4 of the Offsite Dose Calculation Manual (ODCM). The REMP activities for 2020 are reported herein in accordance with Technical Specification (TS) Section 5.6.2 and ODCM Section 7.1.

The objectives of the REMP were to:

1) Determine the levels of radiation and the concentrations of radioactivity in the environs and;
2) Assess the radiological impact (if any) to the environment due to the operation of the Edwin I. Hatch Nuclear Plant (HNP).

The assessments included comparisons between the results of analyses of samples obtained at locations where radiological levels were not expected to be affected by plant operation (control stations), areas of higher population (community stations), and at locations where radiological levels were more likely to be affected by plant operation (indicator stations), as well as comparisons between preoperational and operational sample results.

HNP is owned by Georgia Power Company (GPC), Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia, and Dalton Utilities. The plant is located in Appling County, Georgia on the southwest side of the Altamaha River near Baxley, Georgia. Unit 1, a General Electric Company Boiling Water Reactor (BWR) with a licensed core thermal output of 924 MegaWatts (MWt), began commercial operation on December 31, 1975. Unit 2, also a General Electric Company BWR rated for 924 MWt, began commercial operation on September 5, 1979.

The pre-operational stage of the REMP began with the establishment and activation of the environmental monitoring stations in January of 1972. The operational stage of the REMP began on September 12, 1974 with Unit 1 initial criticality.

- A description of the REMP is provided in Section 2 of this report
- Section 3 provides a summary of the results, an assessment of any radiological impacts to the environment, and the results from the interlaboratory comparison
- A summary of the land use census and the river survey are included in Section 4
- Conclusions are included in Section 5

2 REMP DESCRIPTION

The following section provides a description of the sampling and laboratory protocols associated with the REMP. Table 2-1 provides a summary of the sample types to be collected and the analyses to be performed in order to monitor the airborne, direct radiation, waterborne and ingestion pathways, and also summarizes the collection and analysis frequencies (in accordance with ODCM Section 4.2). Table 2-2 provides specific information regarding the station locations, their proximity to the plant, and exposure pathways. Additionally, Appendix A of this report provides Maps A-1 through A-3 that depict the georeferenced location of sampling stations. Appendix B contains any Errata from previous reports, no Errata was identified for inclusion in this 2020 report. Analytical results for each of the analyzed REMP sampling points are provided in Appendix C.

Beginning in October 2017 and continuing through 2020, a contractor through Southern Nuclear Operating Company (SNC) provided services for the collection of most of the REMP samples, only fish samples were collected by the Georgia Power Company Environmental Lab (GPCEL) in Atlanta, Georgia. The GPCEL analyzed all REMP samples.

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or Sample	Approximate Number of Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Direct Radiation	37 routine monitoring stations	Quarterly	Gamma dose/Quarterly
Airborne Radioiodine and Particulates	Samples from six locations:	Continuous sampler operation with sample collection weekly	Particulate sampler: Analyze for gross beta radioactivity not less than 24 hours following filter change/Weekly; perform gamma isotopic analysis on affected sample when gross beta activity is 10 times the yearly mean of control samples. Perform gamma isotopic analysis on composite sample (by location)/Quarterly. Radioiodine canister: I-131 analysis/Weekly
Waterborne			
Surface	One sample upriver One sample downriver	Composite sample over one month period[1]	Gamma isotopic analysis[2]/Monthly Composite for tritium analysis/Quarterly
Drinking[3,4]	One sample of river water near the intake and one sample of finished water from each of one to three of the nearest water supplies which could be affected by HNP discharges.	River water collected near the intake will be a composite sample; the finished water will be a grab sample. These samples will be collected monthly unless the calculated dose due to consumption of the water is greater than 1 mrem/year; then the collection will be biweekly. The collections may revert to monthly should the calculated doses become less than 1 mrem/year.	I-131 analysis on each sample when biweekly collections are required. Gross beta and gamma isotopic analysis on each sample; composite (by location) for tritium analysis/Quarterly.
Groundwater	See Table 3-8 and Map A-4 in Appendix A for on-site well locations. These are part of the GWPP (NEI 07-07).	Quarterly sample; pump used to sample GW wells; grab sample from yard drains and ponds Groundwater is sampled per the guidance under NEI 07-07.	Tritium, gamma isotopic, and field parameters of each sample; hard-to-detects based on tritium and gamma results
Shoreline Sediment	Two	Semiannually	Gamma isotopic analysis[2]/Semiannually

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or Sample	Approximate Number of Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Ingestion			
Milk[5]	One	Bimonthly	Gamma isotopic analysis[2,7]/Bimonthly
Fish or Clams[6]	Two	Semiannually during spawning season	Gamma isotopic analysis[2] on edible portions /Semiannually
Grass or Leafy Vegetation	Three	Monthly during growing season	Gamma isotopic analysis[2,7]/Monthly

Notes:
[1]Composite sample aliquots were collected at time intervals were are very short (e.g., hourly) relative to the compositing period (e.g., monthly) to ensure obtaining a representative sample.
[2]Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.
[3]If it is found that river water downstream of the plant is used for drinking, drinking water samples will be collected and analyzed as specified herein.
[4]A survey shall be conducted annually at least 50 river miles downstream of the plant to identify those who use water from the Altamaha River for drinking.
[5]Up to three sampling locations within five miles and in different sectors will be used as available. In addition, one or more control locations beyond 10 miles will be used.
[6]Commercially or recreationally important fish may be sampled. Clams may be sampled if difficulties are encountered in obtaining sufficient fish samples.
[7]If the gamma isotopic analysis is not sensitive enough to meet the Minimum Detectable Concentration (MDC) for I-131, a separate analysis for I-131 may be performed.

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
064	Other	Roadside Park	WNW	0.8	Direct
101	Indicator	Inner Ring	N	1.9	Direct
102	Indicator	Inner Ring	NNE	2.5	Direct
103	Indicator	Inner Ring	NE	1.8	Airborne, Direct
104	Indicator	Inner Ring	ENE	1.6	Direct
105	Indicator	Inner Ring	E	3.7	Direct
106	Indicator	Inner Ring	ESE	1.1	Direct, Vegetation
107	Indicator	Inner Ring	SE	1.2	Airborne, Direct
108	Indicator	Inner Ring	SSE	1.6	Direct
109	Indicator	Inner Ring	S	0.9	Direct
110	Indicator	Inner Ring	SSW	1.0	Direct
111	Indicator	Inner Ring	SW	0.9	Direct
112	Indicator	Inner Ring	WSW	1.0	Airborne, Direct, Vegetation
113	Indicator	Inner Ring	W	1.1	Direct
114	Indicator	Inner Ring	WNW	1.2	Direct
115	Indicator	Inner Ring	NW	1.1	Direct
116	Indicator	Inner Ring	NNW	2.0[4]	Airborne, Direct
170	Control	Upstream	WNW	**[2]	River[3]
172	Indicator	Downstream	E	**[2]	River[3]
201	Other	Outer Ring	N	5.0	Direct
202	Other	Outer Ring	NNE	4.9	Direct
203	Other	Outer Ring	NE	5.0	Direct
204	Other	Outer Ring	ENE	5.0	Direct
205	Other	Outer Ring	E	7.2	Direct
206	Other	Outer Ring	ESE	4.8	Direct
207	Other	Outer Ring	SE	4.3	Direct
208	Other	Outer Ring	SSE	4.8	Direct
209	Other	Outer Ring	S	4.4	Direct
210	Other	Outer Ring	SSW	4.3	Direct
211	Other	Outer Ring	SW	4.7	Direct
212	Other	Outer Ring	WSW	4.4	Direct
213	Other	Outer Ring	W	4.3	Direct
214	Other	Outer Ring	WNW	5.4	Direct
215	Other	Outer Ring	NW	4.4	Direct
216	Other	Outer Ring	NNW	4.8	Direct
301	Other	Toombs Central School	N	8.0	Direct

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
304	Control	State Prison	ENE	11.2	Airborne, Direct
304	Control	State Prison	ENE	10.3	Milk
309	Control	Baxley Substation	S	10.0	Airborne, Direct
416	Control	Emergency News Center	NNW	21.0	Direct, Vegetation

Notes:
[1]Direction and distance were determined from the main stack.

[2]Station 170 was located approximately 0.6 river miles upstream of the intake structure for river water, 1.1 river miles for sediment and clams, and 1.5 river miles for fish.

Station 172 was located approximately 3.0 river miles downstream of the discharge structure for river water, sediment and clams, and 1.7 river miles for fish.

The locations from which river water and sediment may be taken can be sharply defined. However, the sampling locations for clams often have to be extended over a wide area to obtain a sufficient quantity. High water adds to the difficulty in obtaining clam samples and may also make an otherwise suitable location for sediment sampling unavailable. A stretch of the river of a few miles or so was generally needed to obtain adequate fish samples. The mile locations given above represent approximations of the locations where samples were collected.

[3]River (fish or clams, shoreline sediment, and surface water)

[4]This station was shifted approximately 0.4 miles due to a highway widening project. Sector did not change. Map A-1 shows the new station location.

3 RESULTS SUMMARY

Included in this section are statistical evaluations of the laboratory results, comparison of the results by media, and a summary of the anomalies and deviations. Overall, 1,392 analyses were performed across nine exposure pathways. Tables and figures are provided throughout this section to provide an enhanced presentation of the information.

In recent history, man-made nuclides have been released into the environment and have resulted in wide spread distribution of radionuclides across the globe. For example, atmospheric nuclear weapons tests from the mid-1940s through 1980 distributed man-made nuclides around the world. The most recent atmospheric tests in the 1970s and in 1980 have had a significant impact upon the radiological concentrations found in the environment prior to and during pre-operation, and through early operation. Some long-lived radionuclides, such as Cs-137, continue to be detected and a portion of these detections are believed to be attributed to the nuclear weapons tests.

Additionally, data associated with certain radiological effects created by off-site events have been removed from the historical evaluation, this includes: the nuclear atmospheric weapon test in the fall of 1980, the Chernobyl incident in the spring of 1986 and the Fukushima accident in the spring of 2011.

As indicated in ODCM 7.1.2.1, the results for naturally occurring radionuclides that are also found in plant effluents must be reported along with man-made radionuclides. Historically, the radionuclide Be-7, which occurs abundantly in nature, is often detected in REMP samples, and occasionally detected in the plant's liquid and gaseous effluents. In 2020, Be-7 was not detected in plant effluents and therefore it was not included in this report. When it is detected in plant effluents and REMP samples, it is also included in the REMP results. The Be-7 detected in select REMP samples likely represents naturally occurring and/or background conditions

As part of the data evaluation process, SNC considered the impact of the non-plant associated nuclides along with a statistical evaluation of the REMP data. The statistical evaluations included within this report include the Minimum Detectable Concentration (MDC), the Minimum Detectable Difference (MDD), and Chauvenet's Criterion as described below.

Minimum Detectable Concentration

The minimum detectable concentration is defined as an estimate of the true concentration of an analyte required to give a specified high probability that the measured response will be greater than the critical value.

Minimum Detectable Difference

The Minimum Detectable Difference (MDD) compares the lowest significant difference (between the means) of a control station, versus an indicator station or a community

station, that can be determined statistically at the 99% Confidence Level (CL). A difference in mean values which was less than the MDD was considered to be statistically indiscernible. The MDD is used to evaluate the statistical proximity between the indicator/community and control sample results, but generally, any results that are less than the MDC and/or Reporting Levels (RL) are considered to have minimal impact on the surrounding environs.

Chauvenet's Criterion

All results were tested for conformance with Chauvenet's Criterion (G. D. Chase and J. L. Rabinowitz, Principles of Radioisotope Methodology, Burgess Publishing Company, 1962, pages 87-90) to identify values which differed from the mean of a set by a statistically significant amount. Identified outliers were investigated to determine the reason(s) for the difference. If equipment malfunction or other valid physical reasons were identified as causing the variation, the anomalous result was excluded from the data set as non-representative.

Table 3-1 summarizes and evaluates the annual results for the indicator stations against the control and community stations (where applicable) and as appropriate, results were evaluated against the MDCs (listed in Table 3-1) and RLs (listed in Table 3-2). The required MDCs were achieved during laboratory sample analysis. The 2020 results were compared with previous results, including those obtained during pre-operation. No data points were excluded for violating Chauvenet's Criterion.

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Units)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
Airborne Particulates (fCi/m3)	Gross Beta 317	10	21.1 11.1-49.4 (211/211)	Inner Ring NNW 1.6 mi. (Indicator)	21.7 11.9-43.1 (53/51)		20.7 11.9-43.1 (106/101)
	Gamma Isotopic 24						
	Be-7	24					
	I-131	70	NDM(c)		NDM		NDM
	Cs-134	50	NDM		NDM		NDM
	Cs-137	60	NDM		NDM		NDM
Airborne Radioiodine (fCi/m3)	I-131 309	70	NDM		NDM	NDM	NDM
Direct Radiation (mR/91 days)	Gamma Dose 148		12.7 6.7-22.6 (64/64)	Inner Ring NW 1.1 mi.	18.2 10.9-22.6 (4/4)	12.5 5.6-22.6 (72/72)	12.6 9-16.3 (12/12)
Milk (pCi/l)	Gamma Isotopic 24						
	I-131	1			NDM		NDM
	Cs-134	15			NDM		NDM
	Cs-137	18			NDM		NDM
	Ba-140	60			NDM		NDM
	La-140	15			NDM		NDM
Vegetation (pCi/kg-wet)	Gamma Isotopic 36						
	Be-7						
	I-131	60	NDM				NDM
	Cs-134	60	NDM				NDM

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Units)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Cs-137	80	15.9 0-56.7 (24/24)	Inner Ring ESE 1.1 mi. Indicator	31.8 0-56.7 (12/12)		19.35 0-80 (12/12)
River Water (pCi/l)	Gamma Isotopic 12						
	Mn-54	15	NDM		NDM		NDM
	Fe-59	30	NDM		NDM		NDM
	Co-58	15	NDM		NDM		NDM
	Co-60	15	NDM		NDM		NDM
	Zn-65	30	NDM		NDM		NDM
	Zr-95	30	NDM		NDM		NDM
	Nb-95	15	NDM		NDM		NDM
	I-131	15(d)	NDM		NDM		NDM
	Cs-134	15	NDM		NDM		NDM
	Cs-137	18	NDM		NDM		NDM
	Ba-140	60	NDM		NDM		NDM
	La-140	15	NDM		NDM		NDM
	Tritium 8	3000 (e)	82.5 0-207 (4/4)	Downstream E ~ 3.0 RM from intake	82.5 0-207 (4/4)		33.5 0-134 (0/0)
Fish (pCi/kg-wet)	Gamma Isotopic 1						
	Be-7	655(d)	NDM				NDM
	Mn-54	130	NDM				NDM
	Fe-59	260	NDM				NDM
	Co-58	130	NDM				NDM

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Units)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Co-60	130	NDM				NDM
	Zn-65	260	NDM				NDM
	Cs-134	130	NDM				NDM
	Cs-137	150	NDM				NDM
Sediment (pCi/kg-dry)	Gamma Isotopic 4						
	Cs-134	150	NDM				NDM
	Cs-137	180	NDM				NDM

Notes:

(a)The MDC is defined in ODCM 10.1. Except as noted otherwise, the values listed in this column are the detection capabilities required by ODCM Table 4-3. The values listed in this column are a priori (before the fact) MDCs. In practice, the a posteriori (after the fact) MDCs are generally lower than the values listed.

(b) Mean and range were based upon detectable measurements only. The fraction of all measurements at a specified location that are detectable is placed in parenthesis.

(c) No Detectable Measurement(s) (NDM).

(d) If a drinking water pathway were to exist, a MDC of 1pCi/L would have been used.

(e) If a drinking water pathway were to exist, a MDC of 2000 pCi/L would have been used.

Not Applicable (NA) (sample not required)

Table 3-2. Reporting Levels (RL)

Analysis	Water (pCi/l)	Airborne Particulate or Gases (fCi/m3)	Fish (pCi/kg-wet)	Milk (pCi/l)	Grass or Leafy 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-95	400				
Nb-95	700				
I-131	2[b]	900		3	100
Cs-134	30	10,000	1,000	60	1,000
Cs-137	50	20,000	2,000	70	2,000
Ba-140	200			300	
La-140	100			400	

[a] This is the 40 CFR 141 value for drinking water samples. If no drinking water pathway exists, a value of 30,000 may be used.
[b] If no drinking water pathway exists, a value of 20 pCi/l may be used.

In accordance with ODCM 4.1.1.2.1, deviations from the required sampling schedule were permitted, if samples were unobtainable due to hazardous conditions, unavailability, inclement weather, equipment malfunction or other just reasons. Deviations from conducting the REMP sampling (as described in Table 2-1) are summarized in Table 3-3 along with their causes and resolution.

Table 3-3. Anomalies and Deviations from Radiological Environmental Monitoring Program

Collection Period	Affected Samples	Anomaly (A)* or Deviation (D)**	Cause	Resolution
04/14/20 – 04/21/20	Station 304	Partial Sample Collected.	Air sample station #304 lost power during the sample period.	Breaker reset and station returned to normal operation.
04/21/20 – 04/28/20	Station 304	No elapsed time on timer.	Air sampler functioned as normal and a sample was collected. The run time was estimated based on the recorded on and off times for the station.	Power cable replaced and timer ran normally.
04/21/20 – 04/28/20	Station 107	Partial sample collected.	Station lost power during sample period. 153.4 hours of sample was collected.	GPC contacted to restore power. Line was tested, break was located, and service returned.
08/10/20 – 08/17/20	Station 112	Partial sample collected.	Station collected 62.4 hours of sample before power was lost.	GPC contacted to restore power. Line was teste, break was located, and service restored.

* An anomaly is considered a non-standard sample that still meets sampling criteria outlined in SNC and Georgia Power Lab procedures.
** A deviation is a sample result that is not recorded due to not meeting scheduling and/or procedural requirements as outlined by SNC and Georgia Power Labs

3.1 Airborne Particulates

As specified in Table 2-1, airborne particulate filters and charcoal canisters were collected weekly at four indicator stations (Stations 103, 107, 112 and 116) which encircle the plant at the site periphery and at two control stations (Station 304 and 309) which is approximately 10 miles from the main stack. At each sampling location containing a filter and cartridge series, air was continuously drawn through a glass fiber filter to retain airborne particulate and an activated charcoal canister was placed in series with the particulate filter in order to adsorb radioiodine.

3.1.1 Gross Beta

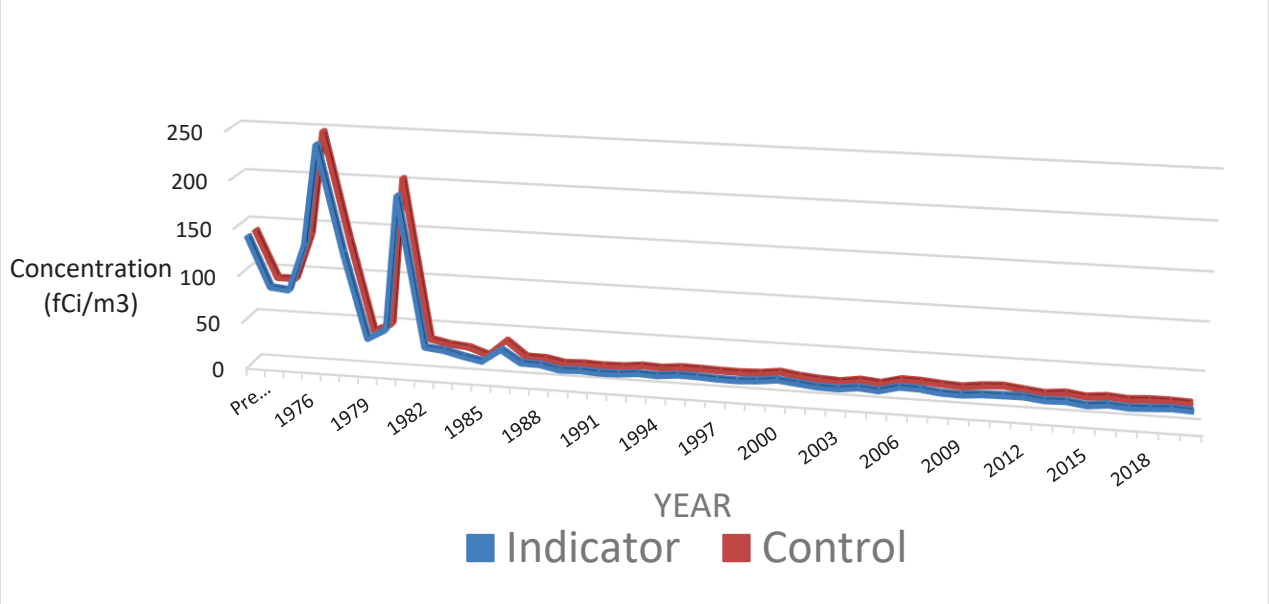
As provided in Table 3-1, the 2020 annual average weekly gross beta activity was 21.1 fCi/m3 for the indicator stations. It was 0.4 fCi/m3 greater than the control station average of 20.7 fCi/m3 for the year. The difference was less than the calculated MDD of .96 fCi/m3, so the difference was not statistically discernable.

Average Air Gross Beta historical data (Table 3-4) is graphed to show trends associated with a prevalent exposure pathway (Figure 3-1). In general, there was close agreement between the results for the indicator, control and community stations. This close agreement supports the position that the plant was not contributing significantly to the gross beta concentrations in air.

Table 3-4. Average Weekly Gross Beta Air Concentration

Period	Indicator (fCi/m3)	Control (fCi/m3)		Period	Indicator (fCi/m3)	Control (fCi/m3)
Pre-op	140	140		1997	20.3	20.7
1974	87	90		1998	20.0	20.5
1975	85	90		1999	21.3	21.3
1976	135	139		2000	23.6	23.9
1977	239	247		2001	21.5	21.0
1978	130	137		2002	19.3	19.2
1979	38	39		2003	18.8	18.2
1980	49	48		2004	21.4	21.3
1981	191	203		2005	19.7	19.4
1982	33	34		2006	24.9	24.7
1983	31	30		2007	24.4	24.3
1984	26	28		2008	21.8	22.5
1985	22	21		2009	21.2	21.4
1986	36	38		2010	23.1	24.0
1987	23	22		2011	23.5	25.1
1988	22.6	21.7		2012	23.7	22.7
1989	18.4	17.8		2013	21.3	20.3
1990	19.3	18.7		2014	22.0	22.3
1991	18.1	18		2015	19.1	19.6
1992	18.5	18.4		2016	21.4	21.6
1993	20.4	20.7		2017	19.7	19.9
1994	19.5	19.7		2018	20.8	21.2
1995	21.7	21.7		2019	22.1	21.3
1996	21.3	21.4		2020	21.1	20.7

Figure 3-1. Average Weekly Gross Beta Air Concentration



3.1.2 Gamma Particulates

During 2020, no man-made radionuclides were detected from the gamma isotopic analysis of the quarterly composites of the air particulate filter.

Airborne Radioiodine - I-131 was not detected in the air cartridges at either the indicator or control stations in 2020. Historically, gamma isotopes have been detected as a result of offsite events. On only one occasion since 1986, has a man-made radionuclide been detected in a quarterly composite. A small amount of Cs-137 (1.7 fCi/m3) was identified in the first quarter of 1991 at Station 304. The MDC and RL for Cs-137 in air are 60 and 20,000 fCi/m3, respectively.

3.2 Direct Radiation

In 2020, direct (external) radiation was measured with Optically Stimulated Luminescent dosimeters (OSLD) by placing two OSLD badges at each station. The gamma dose at each station was reported as the average reading of the two badges. The badges were analyzed on a quarterly basis. An inspection was performed near mid-quarter for offsite badges to ensure that the badges were on-station and to replace any missing or damaged badges.

Two direct radiation stations were established in each of the 16 compass sectors, to form two concentric rings. The inner ring (Stations 101 through 116) was located near the plant perimeter as shown in Map A-1 in Appendix A and the outer ring (Stations 201 through 216) was located at distances of four to five miles from the plant as shown in Map A-2 in Appendix A. The stations in the East sector were a few additional miles away with regards to the other stations in their respective rings due to large swamps making normal access extremely difficult. The 16 stations forming the inner ring were designated as the indicator stations. The two-ring configuration of stations was established in accordance with NRC Branch Technical Position “An Acceptable Radiological Environmental Monitoring Program”, Revision 1, November 1979. The three control stations (Nos. 304, 309 and 416) were located at distances greater than 10 miles from the plant as shown in Map A-2. The mean and range values presented in the “Other” column in Table 3-1 includes the outer ring stations (stations 201 through 216) as well as stations 064 and 301, which monitor special interest areas. Station 064 was located at the onsite roadside park, while Station 301 was located near the Toombs Central School. Station 210, in the outer ring, was located near the Altamaha School (the only other nearby school).

As provided in Table 3-1, the 2020 average quarterly exposure at the indicator stations (inner ring) was 12.7 mR with a range of 6.7-22.6 mR. The indicator station average was 0.1 mR greater than than the control station average (12.6 mR with a range of 9-16.3 mR). The difference was less than the calculated MDD of .91 mR, so the difference was not statistically discernible.

The quarterly exposures acquired at the community/other (outer ring) stations during 2020 ranged from 5.6 to 19 mR with an average of 12.5 mR which was less than control station average by 0.1 mR.

Average Direct Radiation historical data (Table 3-5) is graphed to show trends associated with a prevalent exposure pathway (Figure 3-2). The decrease between 1991 and 1992 values was attributed to a change in Thermoluminescent Dosimeters (TLDs) from Teledyne to Panasonic. It should be noted however that the differences between indicator and control and outer ring values did not change. The increase shown in 2010 reflected issues with the aging Panasonic TLD reader. The close agreement between the station groups has supported the position that the plant was not contributing significantly to direct radiation in the environment.

Figure 3-3 below provides a more detailed view of the 2020 values. The values for the special interest areas detailed below, indicate that Plant Hatch did not significantly contribute to direct radiation at those areas.

Table 3-5. Average Quarterly Exposure from Direct Radiation (Historical)

Period	Indicator (mR)	Control (mR)	Outer Ring (mR)		Period	Indicator (mR)	Control (mR)	Outer Ring (mR)
Pre-op	22.3	23.0	NA		1997	12.3	11.8	12.3
1974	23.2	25.6	NA		1998	12.1	12.3	12.3
1975	10.0	10.5	NA		1999	12.8	13.2	13.0
1976	8.18	6.90	NA		2000	13.6	13.3	13.3
1977	7.31	6.52	NA		2001	12.0	12.1	11.8
1978	6.67	6.01	NA		2002	11.7	11.7	11.5
1979	5.16	6.77	NA		2003	11.4	11.4	11.4
1980	4.44	5.04	4.42		2004	12.2	12.4	12.2
1981	5.90	5.70	5.70		2005	12.1	12.5	12.0
1982	12.3	12.0	11.3		2006	12.4	11.9	11.8
1983	11.4	11.3	10.6		2007	12.8	12.5	12.6
1984	13.3	12.9	11.9		2008	13.0	12.3	12.4
1985	14.7	14.7	13.7		2009	12.4	12.2	12.2
1986	15.0	14.0	14.5		2010	15.8	15.6	16.0
1987	14.9	14.6	15.3		2011	19.7	19.1	19.2
1988	15.0	14.7	15.2		2012	14.4	13.6	14.1
1989	16.4	18.0	16.5		2013	12.7	10.2	12.4
1990	14.9	13.9	14.7		2014	12.0	11.7	11.8
1991	15.1	13.7	15.6		2015	12.1	11.7	12.1
1992	11.9	10.9	12.3		2016	12.1	11.0	11.3
1993	11.6	10.7	11.5		2017	12.5	11.5	12.1
1994	11.0	10.7	11.2		2018	11.4	11.3	11.1
1995	11.5	10.8	11.3		2019	11.4	11.5	11.1
1996	11.6	11.3	11.6		2020	12.7	12.6	12.5

Figure 3-2. Average Quarterly Exposure from Direct Radiation

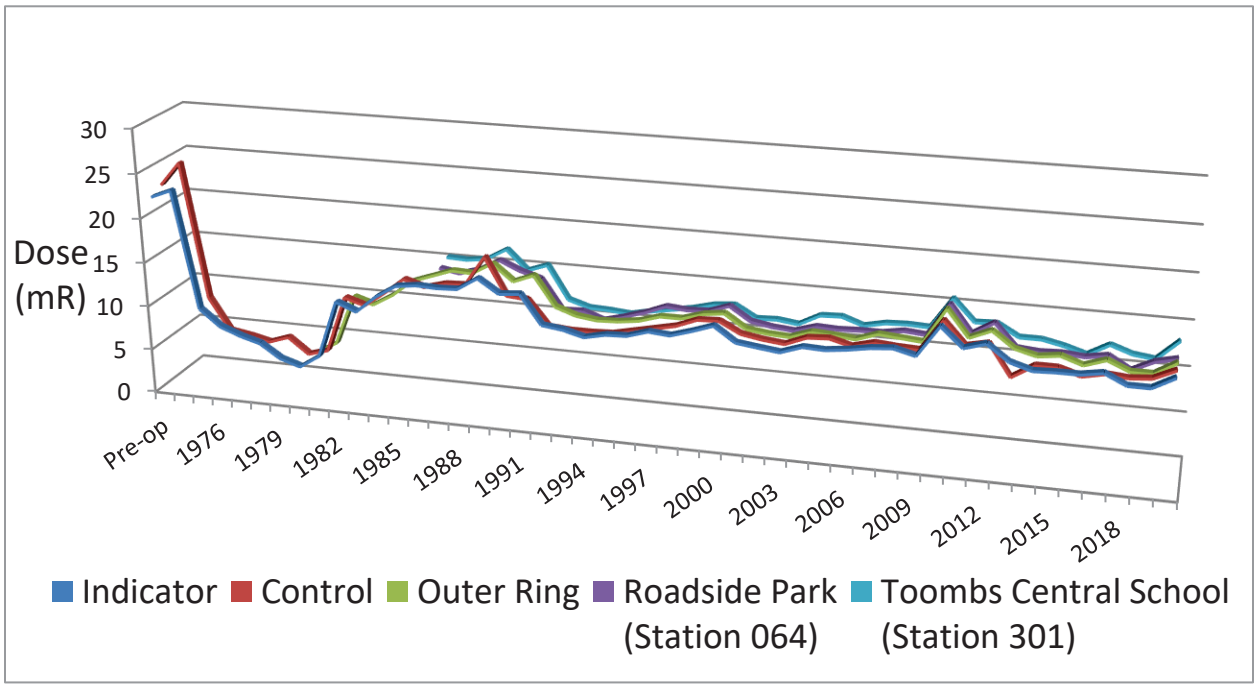
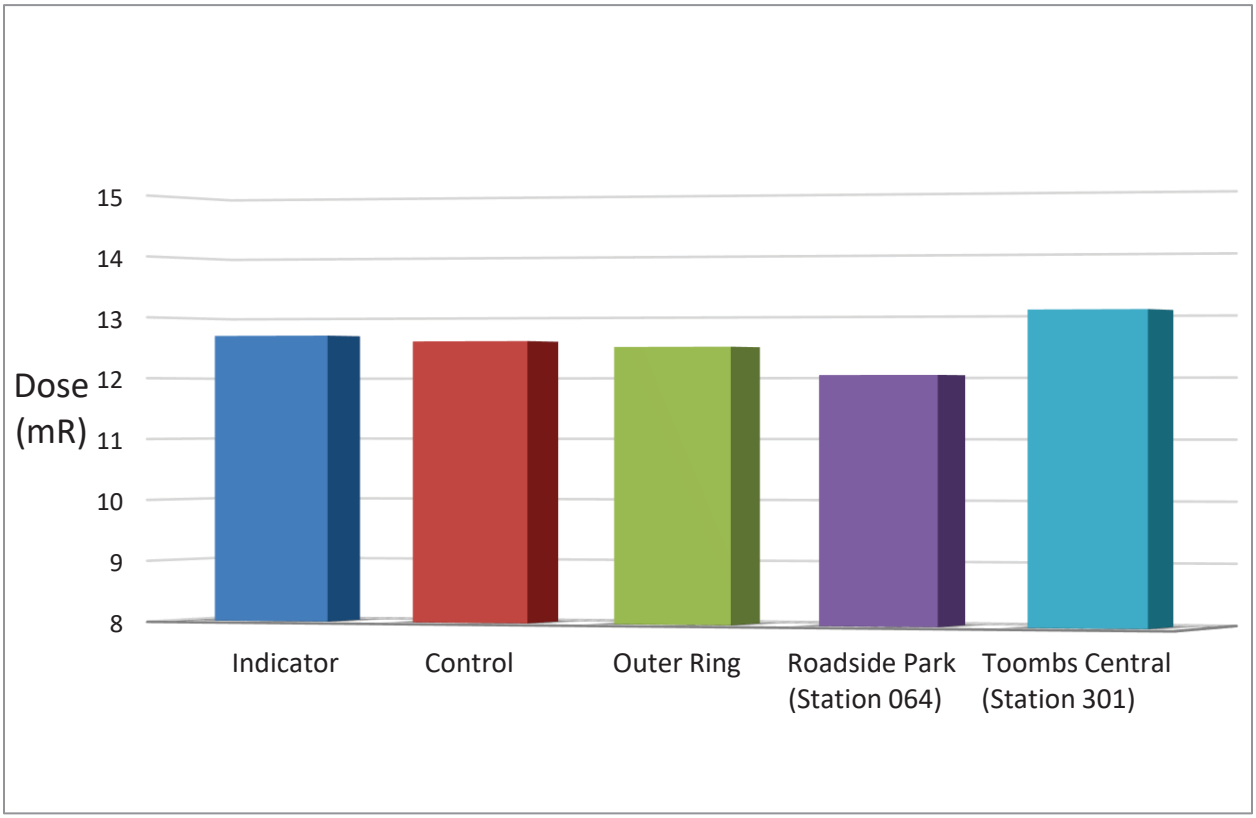


Figure 3-3. 2020 Average Exposure from Direct Radiation



3.3 Biological Media

Cs-137 was the only radionuclide analyzed across all three biological mediums. As indicated in Figure 3-4, the Cs-137 activity levels were below the respective MDCs and well below that of the respective RLs for each sample media for both the indicator and control stations.

3.3.1 Milk

In accordance with Tables 2-1 and 2-2, milk samples were collected semi-monthly from Station 304 (the state prison dairy) which was a control station located more than 10 miles from the plant. Since 1989, efforts to locate a reliable milk sample source within five miles of the plant have been unsuccessful and the 2020 land census did not identify a milk animal within five miles of the plant.

Gamma isotopic (including I-131 and Cs-137) analyses were performed on each collected milk sample and there were no detectable results for gamma isotopes.

3.3.2 Vegetation

In accordance with Tables 2-1 and 2-2, vegetation (forage) samples were collected monthly for gamma isotopic analyses at two indicator locations near the site boundary (Stations 106 and 112) and at one control station located about 21 miles from the plant (Station 416). Cs-137 was detected in both the indicator (average of 15.9 pCi/kg-wet) and control station samples (average of 19.35 pCi/kg-wet). The MDD does not apply since the indicator average is less than that of the control average. The values are well below the MDC and RL for Cs-137 and are therefore not considered as an impact to the environment. Historically, the man-made radionuclide Cs-137 is periodically identified in vegetation samples and is generally attributed to offsite sources (such as weapons testing, Chernobyl, and Fukushima).

While Cs-137 and I-131 were periodically found in vegetation samples during pre-operation, the historical trends and the relationship between the indicator and control stations demonstrate that plant operations were having no adverse impact to the environment. The sample results have consistently been below the MDC and the RL for Cs-137 (80 and 2000 pCi/kg-wet, respectively).

During 2020, outside of Cs-137, no man-made gamma isotopes were detected in any Hatch REMP vegetation samples.

3.3.3 Fish

Fish samples were collected in accordance with the ODCM (as indicated in Table 2-1). For the semi-annual collections, the control location (Station 170) was located upriver of the plant intake

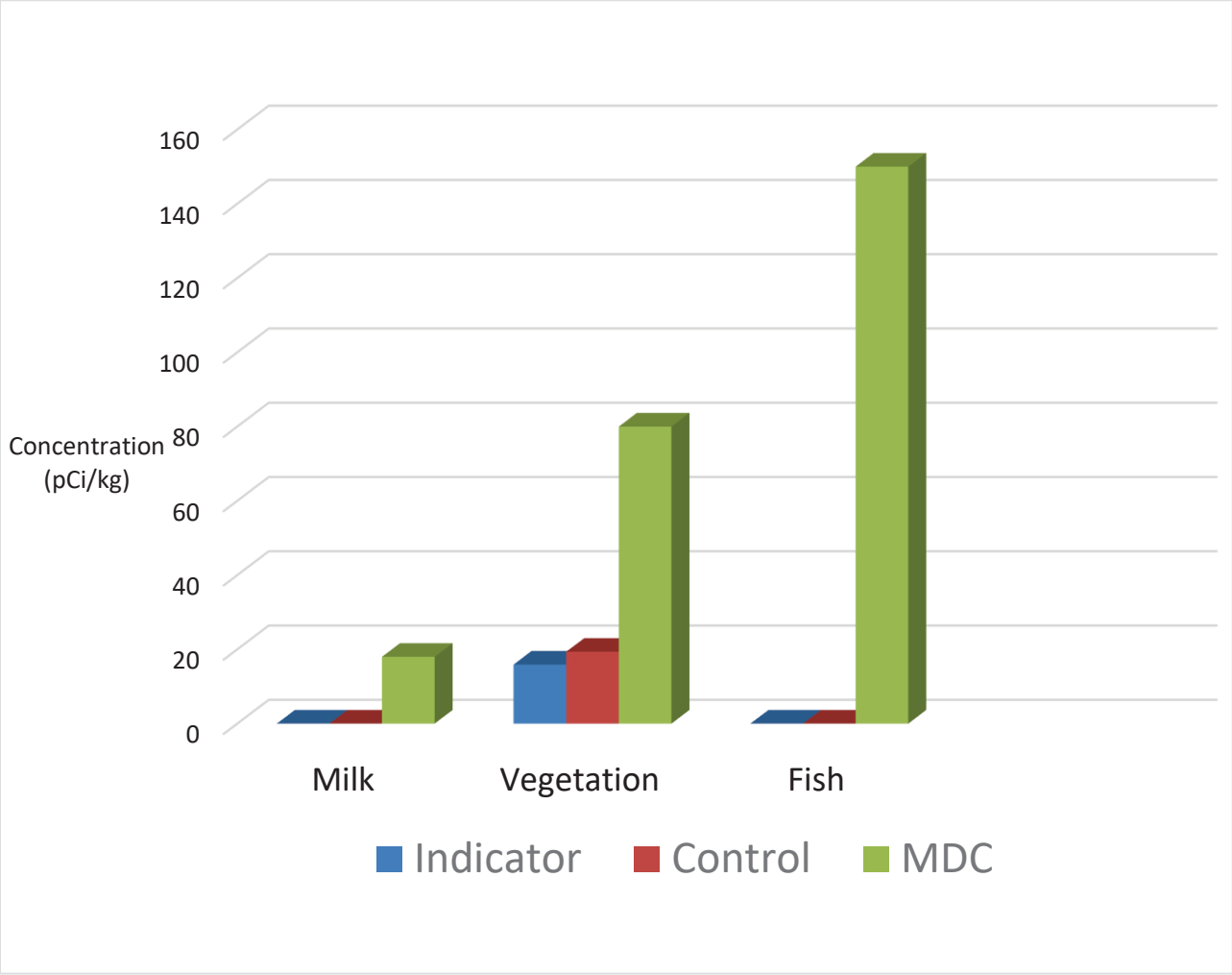
structure, and the indicator location (Station 172) was located downriver of the plant discharge structure.

Laboratory analysis did not indicate any radionuclide activity in 2020.

3.3.4 Biological Media Summary

There were no statistical differences, trends, or anomalies associated with the 2020 biological media samples when compared to historical data. Figure 3-4 below, details the 2020 Cs-137 concentration compared to the MDC.

Figure 3-4. 2020 Biological Media Average Cs-137 Concentrations

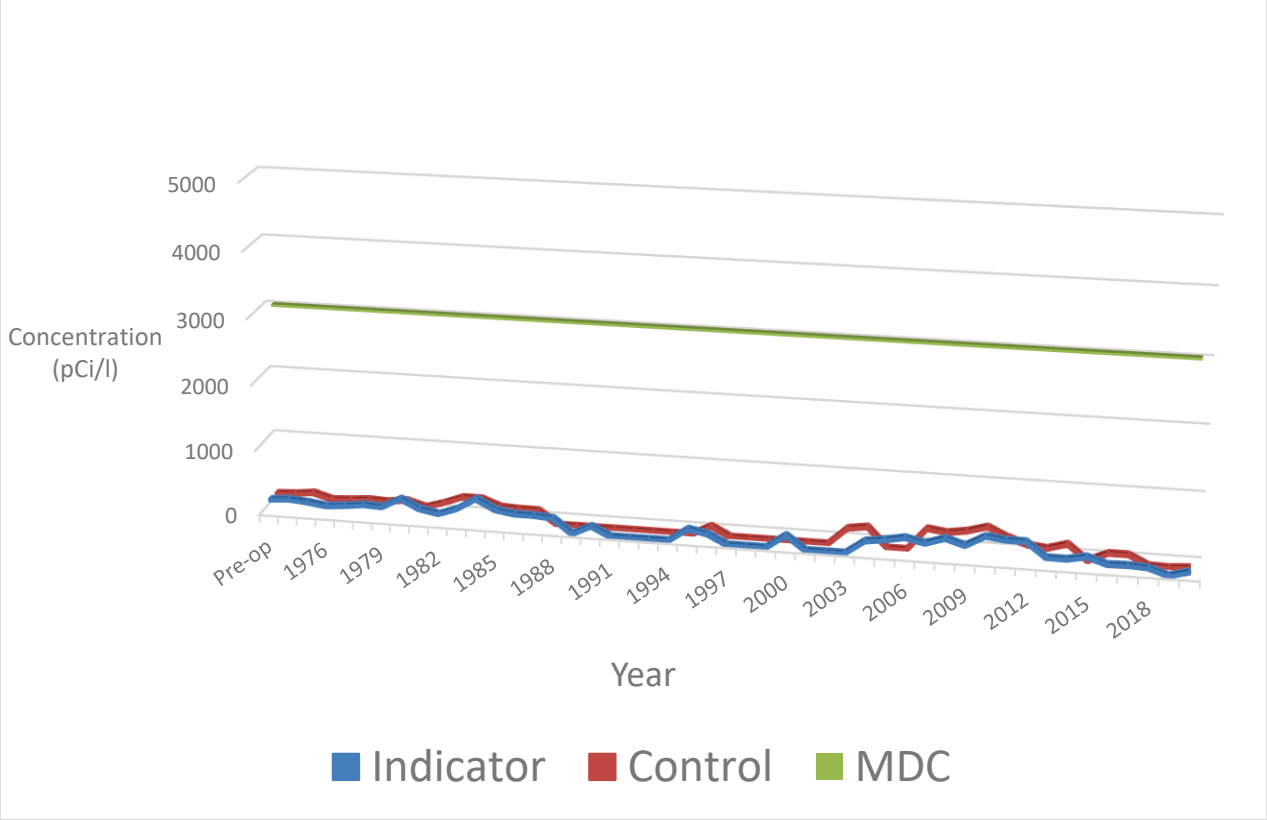


3.4 Surface Water

Composite river water samples were collected monthly at one upstream control location and at one downstream indicator location (shown on Map A-3 in Appendix A). The details of the sampling protocols are outlined in Tables 2-1 and Table 2-2. A gamma isotopic analysis was conducted on each monthly sample. The monthly aliquots were combined to form quarterly composite samples in order to be analyzed for tritium.

As provided in Table 3-1, there were no positive results during 2020 from the gamma isotopic analysis of the river water samples. Also indicated in Table 3-1, the average tritium concentration found at the indicator station was 82.5 pCi/l which was 49 pCi/l more than the average at the control station (33.5 pCi/l). The difference was less than the calculated MDD of 142 pCi/l, so the difference was not statistically discernible. Figure 3-5 below details the 2020 historical average tritium concentrations in river water.

Figure 3-5. Average Annual Tritium Concentrations in River Water



3.5 Sediment

Sediment was collected along the shoreline of the Altamaha River in the spring and fall at the upstream control station (No. 170) and the downstream indicator station (No. 172). A gamma isotopic analysis was performed on each sample. There were no man-made radionuclides detected in sediment samples.

3.6 Interlaboratory Comparison Program

In accordance with ODCM 4.1.3, GPCEL participated in an Interlaboratory Comparison Program (ICP) which satisfied the requirements of Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979. The ICP included the required determinations (sample medium/radionuclide combinations) included in the REMP.

The ICP was conducted by Eckert & Ziegler Analytics, Inc. (EZA) of Atlanta, Georgia. EZA has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party blind testing program which provided a means to ensure independent checks were performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. EZA supplied the crosscheck samples to GPCEL which performed routine laboratory analyses. Each of the specified analyses was performed three times.

The accuracy of each result was measured by the normalized deviation, which is the ratio of the reported average less the known value to the total error. An investigation was undertaken whenever the absolute value of the normalized deviation was greater than three or whenever the coefficient of variation was greater than 15% for all radionuclides other than Cr-51 and Fe-59. For Cr-51 and Fe-59, an investigation was undertaken when the coefficient of variation exceeded the values shown on Table 3-6 below:

Table 3-6. Interlaboratory Comparison Limits

Nuclide	Concentration *	Total Sample Activity (pCi)	Percent Coefficient of Variation
Cr-51	<300	NA	25
	NA	>1000	25
	>300	<1000	15
Fe-59	<80	NA	25
	>80	NA	15
* For air filters, concentration units are pCi/filter. For all other media, concentration units are pCi/liter (pCi/l).			

As required by ODCM 4.1.3.3 and 7.1.2.3, a summary of the results of the GPCEL's participation in the ICP is provided in Table 3-7 for:

- gross beta and gamma isotopic analyses of an air filter
- gamma isotopic analyses of milk samples
- gross beta, tritium and gamma isotopic analyses of water samples

The 2020 analyses included tritium, gross beta and gamma emitting radio-nuclides in different matrices. The results for the analyses were within acceptable limits for accuracy and no investigations were required.

Table 3-7. Interlaboratory Comparison Summary

Analysis or Radionuclide	Date Prepared	Reported Average	Known Value	Standard Deviation EL	Uncertainty Analytics (3S)	Percent Coefficient of Variation	Normalized Deviation
I-131 ANALYSIS OF AN AIR CARTRIDGE (pCi/cartridge)							
I-131	3/12/2020	95.9	91.2	1.33	1.52	5.21	0.95
GAMMA ISOTOPIC ANALYSIS OF AN AIR FILTER (pCi/filter)							
Ce-141	9/10/2020	108	101	3.14	1.69	6.21	1.07
Co-58		126	121	4.97	2.02	5.89	0.71
Co-60		260	255	6.47	4.26	4.49	0.44
Cr-51		273	251	14.8	4.18	8.22	0.99
Cs-134		144	135	6.33	2.25	5.64	1.06
Cs-137		185	168	4.44	2.81	4.71	1.95
Fe-59		140	135	5.80	2.25	6.40	0.59
Mn-54		137	121	3.53	2.03	4.99	2.40
Zn-65		204	182	15.8	3.03	9.13	1.19
GROSS BETA ANALYSIS OF AN AIR FILTER (PCI/FILTER)							
Gross Beta	6/4/2020	219	235	6.28	3.93	3.74	-1.95
GAMMA ISOTOPIC ANALYSIS OF A MILK SAMPLE (PCI/LITER)							
Co-58	9/10/2020	182	180	4.20	3.00	5.83	0.22
Co-60		381	379	9.46	6.33	4.88	0.09
Cr-51		384	372	16.4	6.21	11.2	0.29
Cs-134		199	200	8.89	3.34	6.27	-0.10
Cs-137		262	250	4.79	4.18	5.16	0.88
Fe-59		202	200	9.38	3.35	7.60	0.11
I-131		99.8	95.0	7.88	1.59	11.4	0.42
Mn-54		189	180	10.3	3.01	7.51	0.66
Zn-65		285	270	14.3	4.51	7.75	0.70
GROSS BETA ANALYSIS OF WATER SAMPLE (PCI/LITER)							
Gross Beta	6/4/2020	275	240	15.0	4.01	6.54	1.96
GAMMA ISOTOPIC ANALYSIS OF WATER SAMPLES (PCI/LITER)							

Table 3-7. Interlaboratory Comparison Summary

Analysis or Radionuclide	Date Prepared	Reported Average	Known Value	Standard Deviation EL	Uncertainty Analytics (3S)	Percent Coefficient of Variation	Normalized Deviation
Ce-141	6/4/2020	104	102	3.62	1.70	7.03	0.30
Co-58		199	198	8.46	3.30	6.18	.12
Co-60		287	259	18.3	4.33	12.68	.77
Cr-51		153	148	3.91	2.47	5.07	0.68
Cs-134		115	105	4.66	1.75	7.15	1.24
Cs-137		98.2	102	4.20	1.71	8.60	-0.45
Fe-59		84.2	80.5	4.46	1.34	8.59	0.51
I-131		146	135	3.63	2.26	6.03	1.23
Mn-54		252	227	8.69	3.80	6.84	1.43
Zn-65		122	117	3.58	1.96	7.03	0.60
TRITIUM ANALYSIS OF WATER SAMPLES (PCI/LITER)							
H-3	9/10/2020	11700	12000	57.74	201	2.08	-1.38
GAMMA ISOTOPIC ANALYSIS OF VEGETATION SAMPLES (PCI/LITER)							
Co-58	6/4/2020	152	159	11.8	2.65	11.2	-0.41
Co-60		291	309	10.4	5.16	6.24	-1.02
Cr-51		431	405	37.8	6.77	19.5	0.31
Cs-134		224	231	9.55	3.86	6.84	-0.45
Cs-137		163	164	7.47	2.74	8.89	-0.07
Fe-59		157	160	10.8	2.67	13.0	-0.15
Mn-54		213	212	13.4	3.53	9.13	0.07
Zn-65		377	355	12.6	5.94	8.71	0.68
Ce-141		192	184	7.53	3.07	8.93	0.44

3.7 Groundwater

To ensure compliance with NEI 07-07 (Industry Ground Water Protection Initiative – Final Guidance Document), Southern Nuclear implemented a groundwater protection program which is procedualized in Nuclear Management Procedure, Radiological Groundwater Protection Program. The procedure contains detailed site-specific monitoring plans, program technical bases, and communications protocol (to ensure that radioactive leaks and spills are addressed and communicated appropriately). In an effort to prevent future leaks of radioactive material to groundwater, SNC plants have established buried piping and tanks inspection programs. The only changes made to the Groundwater Protection Program in 2020 was that monitoring wells LD-1, LD-2, LD-3, LD-4, LD-5, LD-6, LD-7, and LD-8 were installed to monitor water table around CST-2.

Plant Hatch maintained the following wells (Table 3-8), which were sampled at a frequency that satisfied the requirements of NEI 07-07. Table 3-9 contains the results of the Groundwater Protection Program tritium results (in pCi/L). See Map A-4 in Appendix A for well locations.

Table 3-8. Groundwater Monitoring Locations

Well	Depth (Feet)	Monitoring Purpose
R1	82.9	Confined Aquifer Upgradient
R2	82.7	Confined Aquifer Near Diesel Generator Bldg.
R3	89.2	Confined Aquifer Near CST-1
R4	41	Dilution Line Near River Water Discharge Structure
R5	33.6	Between Subsurface Drain Lines Downgradient
R6	38.2	Between Subsurface Drain Lines Downgradient
NW2A	27	Water Table Near CST-2 Inside of Subsurface Drain
NW2B	27	Water Table Outside of Subsurface Drain
NW3A	26.5	Water Table Inside of Subsurface Drain
NW3B	25.3	Water Table Outside of Subsurface Drain
NW4A	27	Water Table Upgradient Inside of Subsurface Drain
NW5A	26.7	Water Table Upgradient Inside of Subsurface Drain
NW5B	26.3	Water Table Upgradient Outside of Subsurface Drain
NW6	27	Water Table Near Diesel Generator Bldg.
NW8	23	Water Table Near Diesel Generator Bldg.
NW9	26.1	Water Table Downgradient Inside of Subsurface Drain
NW10	26.2	Water Table Near CST-2
T3	18	Water Table Near Turbine Bldg.
T7	21.4	Water Table Near Diesel Generator Bldg.
T10	18.8	Water Table Near CST-1
T12	23.2	Water Table Near CST-1
T15	27.4	Water Table Near CST-1

Table 3-8. Groundwater Monitoring Locations

Well	Depth (Feet)	Monitoring Purpose
P15A	74.5	Confined Aquifer Near Turbine Bldg.
P15B	18	Water Table Near Turbine Bldg.
P17A	77	Confined Aquifer Near Diesel Generator Bldg.
P17B	14.8	Water Table Near Diesel Generator Bldg.
Deep Well 1	680	Backup Supply for Potable Water (infrequently used)
Deep Well 2	711	Plant Potable Water Supply
Deep Well 3	710	Potable Water Supply – Rec. Center, Firing Range, and Garage
NU-2[1]	~60	Confined Aquifer Near CST-1
GW-1[1]	19.6	Water Table downstream of CST-1 (outside CW tunnel boundary)
GW-2[1]	19.7	Water Table downstream of CST-1 (inside CW tunnel boundary)
GW-3[1]	21.0	Water Table downstream of CST-1 (outside CW tunnel boundary)
LD-1	15	Water Table Near CST-2
LD-2	15	Water Table Near CST-2
LD-3	15	Water Table Near CST-2
LD-4	15	Water Table Near CST-2
LD-5	15	Water Table Near CST-2
LD-6	15	Water Table Near CST-2
LD-7	15	Water Table Near CST-2
LD-8	15	Water Table Near CST-2
[1]Added to the Groundwater Protection Program		

Table 3-9. Groundwater Protection Program Tritium Results (pCi/L)

Well	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
R1	NS	NS	90	173
R2	NS	NS	NS	NS
R3	NS	2130	1230	2,510
R4	NDM	NS	111	2,480
R5	344	634	758	774
R6	55	NS	236	342
NW2A	NS	36,200	23,700	1,302
NW2B	NS	NS	143	172
NW3A	NS	NS	160	1,755
NW4A	NS	NS	189	288
NW5A	NS	NS	NS	198
NW5B	NS	NS	NS	136
NW6	NS	NS	122	NS
NW8	NS	276	381	561

Table 3-9. Groundwater Protection Program Tritium Results (pCi/L)

Well	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
NW9	NS	181	287	169
NW10	703,000	830,000	717,000	1,088,000
T3	NS	74,800	33,100	27,200
T7	NS	236	285	354
T10	NS	NS	2,580	2,862
T12	NS	NS	1,340	4,856
T15	NS	NS	2,510	2,683
P15A	NS	NS	88	NS
P15B	NS	1,490	1,720	NS
P17A	NS	NS	NS	NS
Deep Well 1	NS	NS	NDM	NS
Deep Well 2	NS	NS	NDM	NS
Deep Well 3	NS	NS	NS	NS
NU-2	53,600	57,200	63,000	49,000
GW-1	220	791	730	514
GW-2	263	113	291	324
GW-3	309	228	255	128
LD-1	NS	NS	NS	Dry
LD-2	NS	NS	NS	1,700,000
LD-3	NS	NS	NS	431,000
LD-4	NS	NS	NS	Dry
LD-5	NS	NS	NS	2,880
LD-6	NS	NS	NS	406
LD-7	NS	NS	NS	Dry
LD-8	NS	NS	NS	306

NS – No Sample, either due to sample schedule, field conditions (i.e. dry well) or pump OOS (out of service).
NDM – No Detectable Measurement
Dry – No water within well column

Plant Hatch has had historic tritium leaks into the perched aquifer from around the Unit 1 Condensate Storage Tank (CST), documented on 10 CFR 50.75(g) records. The tritium values in the wells that were found to be elevated above MDC were from previous CST and related piping leaks and were not considered representative of a new release.

4 SURVEY SUMMARIES

4.1 Land Use Census

In accordance with ODCM 4.1.2, a land use census was conducted on November 7, 2020 that circumscribed each of the 16 compass sectors within a five-mile radius in order to verify the locations of the nearest radiological receptor. The land use census results are tabulated in Table 4-1. The 2020 land uses census results, shown in Table 4-1, indicated that a revision to the ODCM will not be required.

Table 4-1. Land Use Census Results

Sector	Residence	Milk Animal*	Beef Cattle	Garden**
Distance in Miles to the Nearest Location in Each Sector				
N	2.0	None	None	3.8
NNE	2.9	None	None	None
NE	3.3	None	4.7	3.1
ENE	4.2	None	4.1	None
E	3.0	None	None	None
ESE	3.8	None	None	None
SE	1.8	None	2.4	None
SSE	2.0	None	3.6	2.2
S	1.0	None	2.5	1.0
SSW	1.3	None	2.1	2.5
SW	1.1	None	2.6	1.6
WSW	1.0	None	3.6	2.0
W	1.1	None	2.7	None
WNW	1.1	None	None	None
NW	3.6	None	4.5	None
NNW	1.8	None	2.8	2.9

*A milk animal is a cow or goat producing milk for human consumption.
**A garden of greater than 500 square feet producing broad leaf vegetation.

4.2 Altamaha River Survey

A survey of the Altamaha River downstream of the plant for approximately 50 miles (approximately river miles 66.5 to 117.0) was conducted on November 7, 2020 to identify any new withdrawal of water from the river for drinking, irrigation, or construction purposes.

Correspondence from the Georgia Environmental Protection Division (EPD) on October 29, 2020, indicated that no new agricultural or drinking water withdrawal permits had been issued at that time.

4.3 Meteorological Report Summary

A consultant analyzes the meteorological tower data collected throughout the year and compares it to previous results. In 2020, the meteorological tower results were comparable to previous years, as related to precipitation amounts (52.79”) and wind direction (from east-northeast at 10m, from the northeast at 60m, and from the northeast at 100m). Additionally, the meteorological data meets the quality requirements, therefore, no changes to REMP monitoring locations are warranted.

5 CONCLUSIONS

This report has confirmed SNCs conformance with the requirements of Chapter 4 of the ODCM and the objectives were to:

1) Determine the levels of radiation and the concentrations of radioactivity in the environs and;

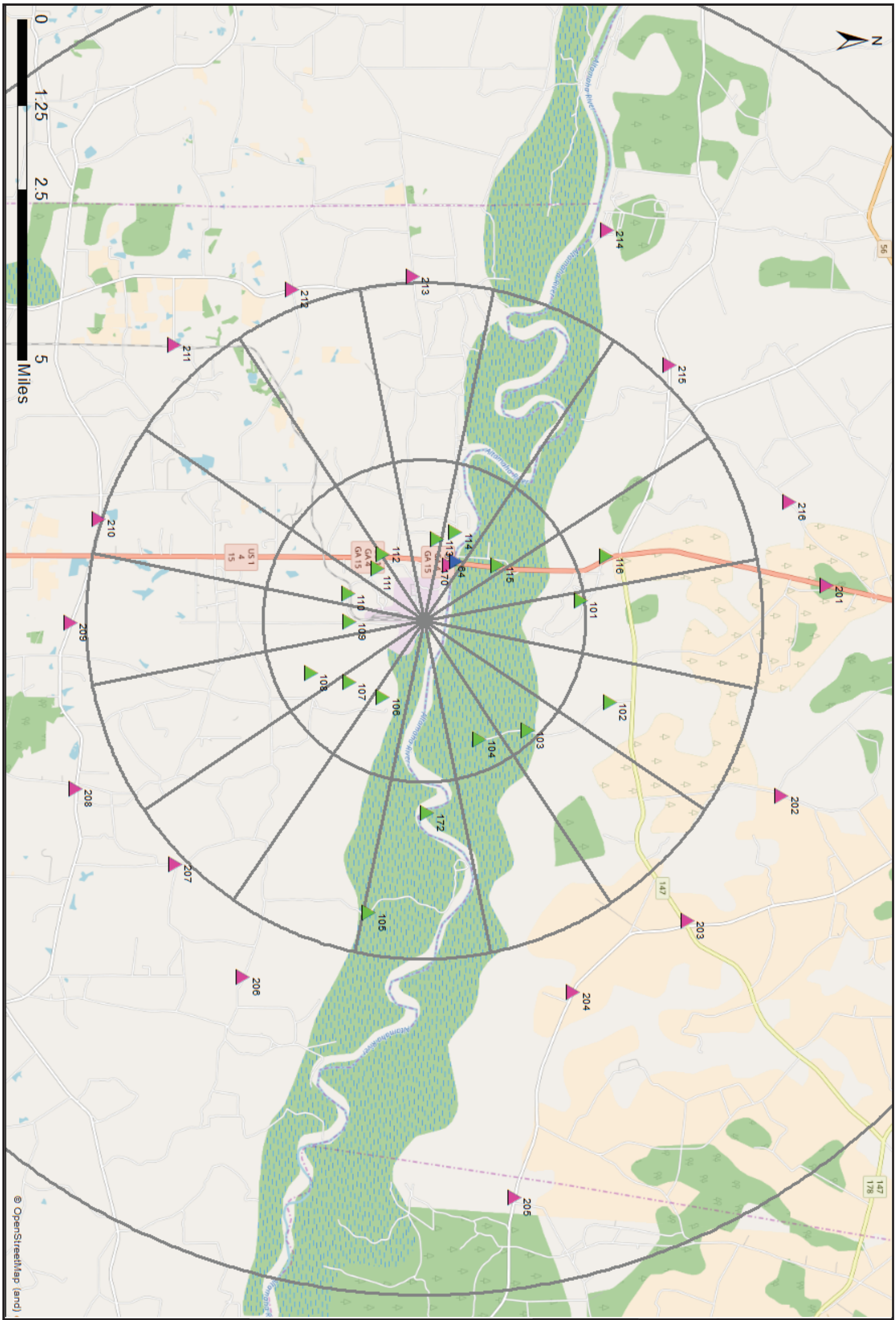
2) Assess the radiological impact (if any) to the environment due to the operation of the HNP.

Based on the 2020 activities associated with the REMP, SNC offers the following conclusions:

- Samples were collected and there were no deviations or anomalies that negatively affected the quality of the REMP
- Land use census and river survey did not require any changes
- Analytical results were below reporting levels
- These values were consistent with historical results which indicate no adverse radiological environmental impacts associated with the operation of HNP

APPENDIX A

Maps



Legend:

Indicator Stations -

Control Stations -

Other Stations -

Edwin I. Hatch Nuclear Plant

2020 Annual Radiological Environmental Report

REMP Stations in Plant Vicinity

Southern Nuclear

Drawn by:	C. Groce	Appendix A
April 20, 2021		Map A-1

N

Vidalia
Alston
Reidsville Municipal Airport
Tootle Airport
Vidalia Regional Airport
Winge Farms Airport
Claxton-Evans Coun Airport
Hearn Airport
Hazlehurst Airport

US 280 GA 30
US 221 56
US 221 135
US 1 4 15
US 1 4
US 23 US 341 19 27
US 23 US 341 GA 19 GA 27
US 341 27
US 23 GA 19
US 221 GA 135
US 25 US 301 GA 73
US 25 US 301 GA 23 GA 57
135
15 29
56

416
301
304
309

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 170 172

0 3.75 7.5 15 Miles

© OpenStreetMa

Appendix A
Map A-2

Drawn by: C. Groce

April 20, 2021

Southern Nuclear

Edwin I. Hatch Nuclear Plant
2020 Annual Radiological Environmental Report
REMP Stations within 10 miles

Legend:
Indicator Stations -
Control Stations -
Other Stations -

R-4
R-2
NW-8
T-6
T-5
T-7
NW-9
P17B
P17A
NW-6
NW-7A
MN10
T-3
T-2
T-4
N8B
GW-3
MN11
N9B
T-8
GW-1
R-6
P15A
P15B
GW-2
Turbine Building
Below Grade Elevation— 105'
Reactor Building
Below Grade Elevation— 75'
NW-10
NW-2A
NW-5B
NW-5A
NW-2B
N5B
R-1
NW-4A
NW-3A
NW-3B
P13B
T-16
T-15
N10B
R-5
T-14
T-11
T-12
T-10
T-13
NU1
R-3
NU2
50'
100'

Legend
Surficial Aquifer GWPP Well
Confined Aquifer GWPP
Non-GWPP Well
Leak Detection Well
Drain Approximation

Edwin I. Hatch Nuclear Plant
2020 Annual Radiological Environmental Report
Facility Groundwater Wells

Appendix A
Map A-3

Drawn by: C. Groce
April 20, 2021

Southern Nuclear

APPENDIX B

Errata

There were no errata for the 2020 report.

APPENDIX C

Data

The following pages contain the individual data points from the 2020 reporting year. The units for the data points varies by media, as follows:

- Airborne Radioiodine and Particulates/Water/Milk – picocuries/liter (pCi/l)
- Sediment/Vegetation/Fish – picocuries/kilogram (pCi/kg)
- Direct Radiation – millirem (mR)

cust_id	profile_name	analyte_name	cust_sample_id	collect_date	result	result_units	lab_sample_id
Hatch	River Water	Fe-59	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Co-58	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Co-60	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Zn-65	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Zr-95	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Nb-95	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	K-40	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Mn-54	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	I-131	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Cs-134	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Cs-137	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Ba-140	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	La-140	172	1/7/2020	0	pCi/L	123989002
Hatch	River Water	Be-7	172	1/7/2020	0	pCi/L	123989002
Hatch	H-3 Water	Tritium	172	1/7/2020	207	pCi/L	124162002
Hatch	River Water	K-40	170	1/7/2020	0	pCi/L	123989001
Hatch	H-3 Water	Tritium	170	1/7/2020	134	pCi/L	124162001
Hatch	River Water	Mn-54	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Fe-59	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Co-58	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Co-60	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Zn-65	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Zr-95	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Nb-95	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	I-131	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Cs-134	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Cs-137	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Ba-140	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	La-140	170	1/7/2020	0	pCi/L	123989001
Hatch	River Water	Be-7	170	1/7/2020	0	pCi/L	123989001
Hatch	Air Filters	Gross Beta	112	1/7/2020	.01849	pCi/m3	123994003
Hatch	Air Filters	Gross Beta	107	1/7/2020	.01954	pCi/m3	123994002
Hatch	Air Filters	Gross Beta	309	1/7/2020	.01989	pCi/m3	123994006
Hatch	Air Filters	Gross Beta	304	1/7/2020	.02033	pCi/m3	123994005
Hatch	Air Filters	Gross Beta	103	1/7/2020	.01883	pCi/m3	123994001
Hatch	Air Filters	Gross Beta	116	1/7/2020	.01914	pCi/m3	123994004
Hatch	Air Filters	Gross Beta	116	1/14/2020	.01582	pCi/m3	124113004
Hatch	Air Filters	Gross Beta	103	1/14/2020	.01244	pCi/m3	124113001
Hatch	Milk Gamma	Be-7	GSP	1/14/2020	0	pCi/L	124115001
Hatch	Milk Gamma	La-140	GSP	1/14/2020	0	pCi/L	124115001
Hatch	Milk Gamma	Ba-140	GSP	1/14/2020	0	pCi/L	124115001
Hatch	Milk Gamma	Cs-137	GSP	1/14/2020	0	pCi/L	124115001
Hatch	Milk Gamma	Cs-134	GSP	1/14/2020	0	pCi/L	124115001
Hatch	Milk Gamma	I-131	GSP	1/14/2020	0	pCi/L	124115001
Hatch	Milk Gamma	K-40	GSP	1/14/2020	1676.5	pCi/L	124115001
Hatch	Air Filters	Gross Beta	304	1/14/2020	.01334	pCi/m3	124113005
Hatch	Air Filters	Gross Beta	309	1/14/2020	.0168	pCi/m3	124113006
Hatch	Air Filters	Gross Beta	107	1/14/2020	.01171	pCi/m3	124113002
Hatch	Air Filters	Gross Beta	112	1/14/2020	.01344	pCi/m3	124113003
Hatch	Air Filters	Gross Beta	116	1/21/2020	.01924	pCi/m3	124166004
Hatch	Air Filters	Gross Beta	103	1/21/2020	.02136	pCi/m3	124166001
Hatch	Air Filters	Gross Beta	304	1/21/2020	.02139	pCi/m3	124166005
Hatch	Air Filters	Gross Beta	309	1/21/2020	.02379	pCi/m3	124166006
Hatch	Air Filters	Gross Beta	107	1/21/2020	.02359	pCi/m3	124166002
Hatch	Air Filters	Gross Beta	112	1/21/2020	.02092	pCi/m3	124166003
Hatch	Vegetation	Cs-134	416	1/28/2020	0	pCi/Kg	124225001
Hatch	Vegetation	Cs-137	416	1/28/2020	0	pCi/Kg	124225001
Hatch	Vegetation	Be-7	416	1/28/2020	925.64	pCi/Kg	124225001
Hatch	Vegetation	K-40	416	1/28/2020	4102.9	pCi/Kg	124225001
Hatch	Vegetation	I-131	416	1/28/2020	0	pCi/Kg	124225001
Hatch	Air Filters	Gross Beta	116	1/28/2020	.02021	pCi/m3	124223004
Hatch	Air Filters	Gross Beta	103	1/28/2020	.02327	pCi/m3	124223001
Hatch	Milk Gamma	Cs-134	GSP	1/28/2020	0	pCi/L	124226001
Hatch	Milk Gamma	I-131	GSP	1/28/2020	0	pCi/L	124226001
Hatch	Milk Gamma	K-40	GSP	1/28/2020	1794.2	pCi/L	124226001
Hatch	Milk Gamma	Be-7	GSP	1/28/2020	0	pCi/L	124226001
Hatch	Milk Gamma	La-140	GSP	1/28/2020	0	pCi/L	124226001
Hatch	Milk Gamma	Ba-140	GSP	1/28/2020	0	pCi/L	124226001
Hatch	Milk Gamma	Cs-137	GSP	1/28/2020	0	pCi/L	124226001
Hatch	Air Filters	Gross Beta	304	1/28/2020	.0209	pCi/m3	124223005
Hatch	Air Filters	Gross Beta	309	1/28/2020	.02212	pCi/m3	124223006
Hatch	Air Filters	Gross Beta	107	1/28/2020	.02227	pCi/m3	124223002
Hatch	Vegetation	I-131	106	1/28/2020	0	pCi/Kg	124225003
Hatch	Vegetation	Cs-134	106	1/28/2020	0	pCi/Kg	124225003
Hatch	Vegetation	K-40	106	1/28/2020	2049.6	pCi/Kg	124225003
Hatch	Vegetation	Be-7	106	1/28/2020	4294.8	pCi/Kg	124225003
Hatch	Vegetation	Cs-137	106	1/28/2020	34.103	pCi/Kg	124225003
Hatch	Air Filters	Gross Beta	112	1/28/2020	.01946	pCi/m3	124223003
Hatch	Vegetation	Be-7	112	1/28/2020	809.57	pCi/Kg	124225002
Hatch	Vegetation	K-40	112	1/28/2020	4258.7	pCi/Kg	124225002
Hatch	Vegetation	Cs-137	112	1/28/2020	0	pCi/Kg	124225002
Hatch	Vegetation	Cs-134	112	1/28/2020	0	pCi/Kg	124225002
Hatch	Vegetation	I-131	112	1/28/2020	0	pCi/Kg	124225002
Hatch	Air Filters	Gross Beta	116	2/4/2020	.01884	pCi/m3	124297004
Hatch	Air Filters	Gross Beta	103	2/4/2020	.01835	pCi/m3	124297001
Hatch	Air Filters	Gross Beta	304	2/4/2020	.01679	pCi/m3	124297005

Hatch	Air Filters	Gross Beta	309	2/4/2020	.01805	pCi/m3	124297006
Hatch	Air Filters	Gross Beta	107	2/4/2020	.01709	pCi/m3	124297002
Hatch	Air Filters	Gross Beta	112	2/4/2020	.01937	pCi/m3	124297003
Hatch	River Water	Mn-54	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Fe-59	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Co-58	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Co-60	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Zn-65	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Zr-95	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Nb-95	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	I-131	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Cs-134	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Cs-137	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Ba-140	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	La-140	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Be-7	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	K-40	172	2/4/2020	0	pCi/L	124296002
Hatch	River Water	Nb-95	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	I-131	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Cs-134	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Cs-137	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Ba-140	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	La-140	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Be-7	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	K-40	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Mn-54	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Fe-59	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Co-58	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Co-60	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Zn-65	170	2/4/2020	0	pCi/L	124296001
Hatch	River Water	Zr-95	170	2/4/2020	0	pCi/L	124296001
Hatch	Air Filters	Gross Beta	116	2/11/2020	.02077	pCi/m3	124363004
Hatch	Air Filters	Gross Beta	103	2/11/2020	.01958	pCi/m3	124363001
Hatch	Milk Gamma	Cs-134	GSP	2/11/2020	0	pCi/L	124362001
Hatch	Milk Gamma	I-131	GSP	2/11/2020	0	pCi/L	124362001
Hatch	Milk Gamma	K-40	GSP	2/11/2020	2057	pCi/L	124362001
Hatch	Milk Gamma	Be-7	GSP	2/11/2020	0	pCi/L	124362001
Hatch	Milk Gamma	La-140	GSP	2/11/2020	0	pCi/L	124362001
Hatch	Milk Gamma	Ba-140	GSP	2/11/2020	0	pCi/L	124362001
Hatch	Milk Gamma	Cs-137	GSP	2/11/2020	0	pCi/L	124362001
Hatch	Air Filters	Gross Beta	304	2/11/2020	.02102	pCi/m3	124363005
Hatch	Air Filters	Gross Beta	309	2/11/2020	.02029	pCi/m3	124363006
Hatch	Air Filters	Gross Beta	107	2/11/2020	.01863	pCi/m3	124363002
Hatch	Air Filters	Gross Beta	112	2/11/2020	.02025	pCi/m3	124363003
Hatch	Air Filters	Gross Beta	116	2/18/2020	.01586	pCi/m3	124419004
Hatch	Air Filters	Gross Beta	103	2/18/2020	.0144	pCi/m3	124419001
Hatch	Air Filters	Gross Beta	304	2/18/2020	.01404	pCi/m3	124419005
Hatch	Air Filters	Gross Beta	309	2/18/2020	.01186	pCi/m3	124419006
Hatch	Air Filters	Gross Beta	107	2/18/2020	.01213	pCi/m3	124419002
Hatch	Air Filters	Gross Beta	112	2/18/2020	.01331	pCi/m3	124419003
Hatch	Vegetation	K-40	112	2/24/2020	5258.9	pCi/Kg	124470002
Hatch	Vegetation	Be-7	112	2/24/2020	2374.6	pCi/Kg	124470002
Hatch	Vegetation	I-131	112	2/24/2020	0	pCi/Kg	124470002
Hatch	Vegetation	Cs-134	112	2/24/2020	0	pCi/Kg	124470002
Hatch	Vegetation	Cs-137	112	2/24/2020	0	pCi/Kg	124470002
Hatch	Vegetation	Cs-134	416	2/24/2020	0	pCi/Kg	124470001
Hatch	Vegetation	Cs-137	416	2/24/2020	0	pCi/Kg	124470001
Hatch	Vegetation	Be-7	416	2/24/2020	3430.7	pCi/Kg	124470001
Hatch	Vegetation	K-40	416	2/24/2020	6324	pCi/Kg	124470001
Hatch	Vegetation	I-131	416	2/24/2020	0	pCi/Kg	124470001
Hatch	Air Filters	Gross Beta	116	2/25/2020	.01809	pCi/m3	124468004
Hatch	Air Filters	Gross Beta	103	2/25/2020	.01703	pCi/m3	124468001
Hatch	Milk Gamma	Be-7	GSP	2/25/2020	0	pCi/L	124467001
Hatch	Milk Gamma	La-140	GSP	2/25/2020	0	pCi/L	124467001
Hatch	Milk Gamma	Ba-140	GSP	2/25/2020	0	pCi/L	124467001
Hatch	Milk Gamma	Cs-137	GSP	2/25/2020	0	pCi/L	124467001
Hatch	Milk Gamma	Cs-134	GSP	2/25/2020	0	pCi/L	124467001
Hatch	Milk Gamma	I-131	GSP	2/25/2020	0	pCi/L	124467001
Hatch	Milk Gamma	K-40	GSP	2/25/2020	1564.4	pCi/L	124467001
Hatch	Air Filters	Gross Beta	304	2/25/2020	.02034	pCi/m3	124468005
Hatch	Air Filters	Gross Beta	309	2/25/2020	.01467	pCi/m3	124468006
Hatch	Air Filters	Gross Beta	107	2/25/2020	.01976	pCi/m3	124468002
Hatch	Vegetation	I-131	106	2/25/2020	0	pCi/Kg	124470003
Hatch	Vegetation	Cs-137	106	2/25/2020	30.431	pCi/Kg	124470003
Hatch	Vegetation	Cs-134	106	2/25/2020	0	pCi/Kg	124470003
Hatch	Vegetation	K-40	106	2/25/2020	2666.234	pCi/Kg	124470003
Hatch	Vegetation	Be-7	106	2/25/2020	5663.801	pCi/Kg	124470003
Hatch	Air Filters	Gross Beta	112	2/25/2020	.01717	pCi/m3	124468003
Hatch	Air Filters	Gross Beta	116	3/3/2020	.01863	pCi/m3	124526004
Hatch	Air Filters	Gross Beta	103	3/3/2020	.01971	pCi/m3	124526001
Hatch	Air Filters	Gross Beta	304	3/3/2020	.0162	pCi/m3	124526005
Hatch	Air Filters	Gross Beta	309	3/3/2020	.01824	pCi/m3	124526006
Hatch	Air Filters	Gross Beta	107	3/3/2020	.02173	pCi/m3	124526002
Hatch	Air Filters	Gross Beta	112	3/3/2020	.02029	pCi/m3	124526003
Hatch	River Water	I-131	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Mn-54	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Fe-59	170	3/3/2020	0	pCi/L	124525001

Hatch	River Water	Co-58	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Co-60	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Zn-65	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Zr-95	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Nb-95	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Cs-134	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Cs-137	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Ba-140	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	La-140	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Be-7	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	K-40	170	3/3/2020	0	pCi/L	124525001
Hatch	River Water	Mn-54	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Fe-59	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Co-58	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Co-60	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Zn-65	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Zr-95	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Nb-95	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	I-131	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Cs-134	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Cs-137	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Ba-140	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	La-140	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	Be-7	172	3/3/2020	0	pCi/L	124525002
Hatch	River Water	K-40	172	3/3/2020	0	pCi/L	124525002
Hatch	Air Filters	Gross Beta	116	3/10/2020	.01802	pCi/m3	124598004
Hatch	Air Filters	Gross Beta	103	3/10/2020	.01507	pCi/m3	124598001
Hatch	Milk Gamma	K-40	GSP	3/10/2020	1613.052	pCi/L	124600001
Hatch	Milk Gamma	Be-7	GSP	3/10/2020	0	pCi/L	124600001
Hatch	Milk Gamma	La-140	GSP	3/10/2020	0	pCi/L	124600001
Hatch	Milk Gamma	Ba-140	GSP	3/10/2020	0	pCi/L	124600001
Hatch	Milk Gamma	Cs-137	GSP	3/10/2020	0	pCi/L	124600001
Hatch	Milk Gamma	Cs-134	GSP	3/10/2020	0	pCi/L	124600001
Hatch	Milk Gamma	I-131	GSP	3/10/2020	0	pCi/L	124600001
Hatch	Air Filters	Gross Beta	304	3/10/2020	.01543	pCi/m3	124598005
Hatch	Air Filters	Gross Beta	309	3/10/2020	.01467	pCi/m3	124598006
Hatch	Air Filters	Gross Beta	107	3/10/2020	.01535	pCi/m3	124598002
Hatch	Air Filters	Gross Beta	112	3/10/2020	.01313	pCi/m3	124598003
Hatch	Air Filters	Gross Beta	116	3/17/2020	.02128	pCi/m3	124681004
Hatch	Air Filters	Gross Beta	103	3/17/2020	.01785	pCi/m3	124681001
Hatch	Air Filters	Gross Beta	304	3/17/2020	.01829	pCi/m3	124681005
Hatch	Air Filters	Gross Beta	309	3/17/2020	.01824	pCi/m3	124681006
Hatch	Air Filters	Gross Beta	107	3/17/2020	.01879	pCi/m3	124681002
Hatch	Air Filters	Gross Beta	112	3/17/2020	.01627	pCi/m3	124681003
Hatch	Vegetation	Cs-134	416	3/23/2020	0	pCi/Kg	124725001
Hatch	Vegetation	Cs-137	416	3/23/2020	0	pCi/Kg	124725001
Hatch	Vegetation	Be-7	416	3/23/2020	1388.1	pCi/Kg	124725001
Hatch	Vegetation	K-40	416	3/23/2020	4896.6	pCi/Kg	124725001
Hatch	Vegetation	I-131	416	3/23/2020	0	pCi/Kg	124725001
Hatch	Air Filters	Gross Beta	116	3/24/2020	.01861	pCi/m3	124723004
Hatch	Air Filters	Gross Beta	103	3/24/2020	.01608	pCi/m3	124723001
Hatch	Milk Gamma	K-40	GSP	3/24/2020	1080.1	pCi/L	124726001
Hatch	Milk Gamma	Be-7	GSP	3/24/2020	0	pCi/L	124726001
Hatch	Milk Gamma	La-140	GSP	3/24/2020	0	pCi/L	124726001
Hatch	Milk Gamma	Ba-140	GSP	3/24/2020	0	pCi/L	124726001
Hatch	Milk Gamma	Cs-137	GSP	3/24/2020	0	pCi/L	124726001
Hatch	Milk Gamma	Cs-134	GSP	3/24/2020	0	pCi/L	124726001
Hatch	Milk Gamma	I-131	GSP	3/24/2020	0	pCi/L	124726001
Hatch	Air Filters	Gross Beta	304	3/24/2020	.01361	pCi/m3	124723005
Hatch	Air Filters	Gross Beta	309	3/24/2020	.0171	pCi/m3	124723006
Hatch	Air Filters	Gross Beta	107	3/24/2020	.01682	pCi/m3	124723002
Hatch	Vegetation	K-40	106	3/24/2020	3090.124	pCi/Kg	124725003
Hatch	Vegetation	Be-7	106	3/24/2020	959.976	pCi/Kg	124725003
Hatch	Vegetation	Cs-137	106	3/24/2020	55.108	pCi/Kg	124725003
Hatch	Vegetation	I-131	106	3/24/2020	0	pCi/Kg	124725003
Hatch	Vegetation	Cs-134	106	3/24/2020	0	pCi/Kg	124725003
Hatch	Air Filters	Gross Beta	112	3/24/2020	.01711	pCi/m3	124723003
Hatch	Vegetation	I-131	112	3/24/2020	0	pCi/Kg	124725002
Hatch	Vegetation	Cs-137	112	3/24/2020	0	pCi/Kg	124725002
Hatch	Vegetation	K-40	112	3/24/2020	5227	pCi/Kg	124725002
Hatch	Vegetation	Cs-134	112	3/24/2020	0	pCi/Kg	124725002
Hatch	Vegetation	Be-7	112	3/24/2020	655.39	pCi/Kg	124725002
Hatch	Air Qtr Comp	Be-7	116	3/31/2020	.07782	pCi/m3	124828004
Hatch	Air Qtr Comp	Cs-137	116	3/31/2020	0	pCi/m3	124828004
Hatch	Air Qtr Comp	Cs-134	116	3/31/2020	0	pCi/m3	124828004
Hatch	Air Qtr Comp	I-131	116	3/31/2020	0	pCi/m3	124828004
Hatch	Air Filters	Gross Beta	116	3/31/2020	.02513	pCi/m3	124786004
Hatch	Air Qtr Comp	Be-7	103	3/31/2020	.07022	pCi/m3	124828001
Hatch	Air Filters	Gross Beta	103	3/31/2020	.02321	pCi/m3	124786001
Hatch	Air Qtr Comp	Cs-137	103	3/31/2020	0	pCi/m3	124828001
Hatch	Air Qtr Comp	Cs-134	103	3/31/2020	0	pCi/m3	124828001
Hatch	Air Qtr Comp	I-131	103	3/31/2020	0	pCi/m3	124828001
Hatch	Air Qtr Comp	Be-7	304	3/31/2020	.0903	pCi/m3	124828005
Hatch	Air Qtr Comp	Cs-137	304	3/31/2020	0	pCi/m3	124828005
Hatch	Air Qtr Comp	Cs-134	304	3/31/2020	0	pCi/m3	124828005
Hatch	Air Qtr Comp	I-131	304	3/31/2020	0	pCi/m3	124828005
Hatch	Air Filters	Gross Beta	304	3/31/2020	.02176	pCi/m3	124786005

Hatch	Air Qtr Comp	Be-7	309	3/31/2020	.08107	pCi/m3	124828006
Hatch	Air Qtr Comp	Cs-137	309	3/31/2020	0	pCi/m3	124828006
Hatch	Air Qtr Comp	Cs-134	309	3/31/2020	0	pCi/m3	124828006
Hatch	Air Qtr Comp	I-131	309	3/31/2020	0	pCi/m3	124828006
Hatch	Air Filters	Gross Beta	309	3/31/2020	.02074	pCi/m3	124786006
Hatch	Air Qtr Comp	I-131	107	3/31/2020	0	pCi/m3	124828002
Hatch	Air Qtr Comp	Cs-134	107	3/31/2020	0	pCi/m3	124828002
Hatch	Air Filters	Gross Beta	107	3/31/2020	.01887	pCi/m3	124786002
Hatch	Air Qtr Comp	Be-7	107	3/31/2020	.08041	pCi/m3	124828002
Hatch	Air Qtr Comp	Cs-137	107	3/31/2020	0	pCi/m3	124828002
Hatch	Air Qtr Comp	I-131	112	3/31/2020	0	pCi/m3	124828003
Hatch	Air Qtr Comp	Cs-134	112	3/31/2020	0	pCi/m3	124828003
Hatch	Air Qtr Comp	Cs-137	112	3/31/2020	0	pCi/m3	124828003
Hatch	Air Filters	Gross Beta	112	3/31/2020	.01979	pCi/m3	124786003
Hatch	Air Qtr Comp	Be-7	112	3/31/2020	.08439	pCi/m3	124828003
Hatch	Air Filters	Gross Beta	116	4/7/2020	.02316	pCi/m3	124840004
Hatch	Air Filters	Gross Beta	103	4/7/2020	.02265	pCi/m3	124840001
Hatch	Air Filters	Gross Beta	304	4/7/2020	.02104	pCi/m3	124840005
Hatch	Air Filters	Gross Beta	309	4/7/2020	.02224	pCi/m3	124840006
Hatch	Air Filters	Gross Beta	107	4/7/2020	.02079	pCi/m3	124840002
Hatch	Air Filters	Gross Beta	112	4/7/2020	.01969	pCi/m3	124840003
Hatch	River Water	K-40	170	4/7/2020	0	pCi/L	124842001
Hatch	H-3 Water	Tritium	170	4/7/2020	-52.7	pCi/L	124986001
Hatch	River Water	I-131	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Cs-134	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Cs-137	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Ba-140	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	La-140	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Mn-54	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Fe-59	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Be-7	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Co-58	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Co-60	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Zn-65	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Zr-95	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Nb-95	170	4/7/2020	0	pCi/L	124842001
Hatch	River Water	Zr-95	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Nb-95	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	I-131	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Cs-134	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Cs-137	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Ba-140	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	La-140	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Be-7	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	K-40	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Co-60	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Zn-65	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Mn-54	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Fe-59	172	4/7/2020	0	pCi/L	124842002
Hatch	River Water	Co-58	172	4/7/2020	0	pCi/L	124842002
Hatch	H-3 Water	Tritium	172	4/7/2020	123	pCi/L	124986002
Hatch	Air Filters	Gross Beta	116	4/14/2020	.0258	pCi/m3	124897004
Hatch	Air Filters	Gross Beta	103	4/14/2020	.02529	pCi/m3	124897001
Hatch	Milk Gamma	Ba-140	GSP	4/14/2020	0	pCi/L	124899001
Hatch	Milk Gamma	Cs-137	GSP	4/14/2020	0	pCi/L	124899001
Hatch	Milk Gamma	Cs-134	GSP	4/14/2020	0	pCi/L	124899001
Hatch	Milk Gamma	I-131	GSP	4/14/2020	0	pCi/L	124899001
Hatch	Milk Gamma	K-40	GSP	4/14/2020	1825.2	pCi/L	124899001
Hatch	Milk Gamma	Be-7	GSP	4/14/2020	0	pCi/L	124899001
Hatch	Milk Gamma	La-140	GSP	4/14/2020	0	pCi/L	124899001
Hatch	Air Filters	Gross Beta	304	4/14/2020	.02531	pCi/m3	124897005
Hatch	Air Filters	Gross Beta	309	4/14/2020	.02641	pCi/m3	124897006
Hatch	Air Filters	Gross Beta	107	4/14/2020	.0267	pCi/m3	124897002
Hatch	Air Filters	Gross Beta	112	4/14/2020	.02471	pCi/m3	124897003
Hatch	Air Filters	Gross Beta	116	4/21/2020	.02416	pCi/m3	124970004
Hatch	Air Filters	Gross Beta	103	4/21/2020	.0234	pCi/m3	124970001
Hatch	Air Filters	Gross Beta	309	4/21/2020	.0203	pCi/m3	124970006
Hatch	Air Filters	Gross Beta	107	4/21/2020	.02406	pCi/m3	124970002
Hatch	Air Filters	Gross Beta	112	4/21/2020	.01973	pCi/m3	124970003
Hatch	Vegetation	Cs-134	416	4/27/2020	0	pCi/Kg	125041001
Hatch	Vegetation	Cs-137	416	4/27/2020	19.708	pCi/Kg	125041001
Hatch	Vegetation	Be-7	416	4/27/2020	4327.1	pCi/Kg	125041001
Hatch	Vegetation	K-40	416	4/27/2020	4338.4	pCi/Kg	125041001
Hatch	Vegetation	I-131	416	4/27/2020	0	pCi/Kg	125041001
Hatch	Air Filters	Gross Beta	116	4/28/2020	.02019	pCi/m3	125039004
Hatch	Air Filters	Gross Beta	103	4/28/2020	.0221	pCi/m3	125039001
Hatch	Milk Gamma	I-131	GSP	4/28/2020	0	pCi/L	125042001
Hatch	Milk Gamma	K-40	GSP	4/28/2020	1789.6	pCi/L	125042001
Hatch	Milk Gamma	Be-7	GSP	4/28/2020	0	pCi/L	125042001
Hatch	Milk Gamma	La-140	GSP	4/28/2020	0	pCi/L	125042001
Hatch	Milk Gamma	Ba-140	GSP	4/28/2020	0	pCi/L	125042001
Hatch	Milk Gamma	Cs-137	GSP	4/28/2020	0	pCi/L	125042001
Hatch	Milk Gamma	Cs-134	GSP	4/28/2020	0	pCi/L	125042001
Hatch	Air Filters	Gross Beta	304	4/28/2020	.01865	pCi/m3	125039005
Hatch	Air Filters	Gross Beta	309	4/28/2020	.02073	pCi/m3	125039006
Hatch	Air Filters	Gross Beta	107	4/28/2020	.01856	pCi/m3	125039002
Hatch	Vegetation	I-131	106	4/28/2020	0	pCi/Kg	125041003

Hatch	Vegetation	Cs-134	106	4/28/2020	0	pCi/Kg	125041003
Hatch	Vegetation	Cs-137	106	4/28/2020	0	pCi/Kg	125041003
Hatch	Vegetation	Be-7	106	4/28/2020	2108.6	pCi/Kg	125041003
Hatch	Vegetation	K-40	106	4/28/2020	3361.7	pCi/Kg	125041003
Hatch	Air Filters	Gross Beta	112	4/28/2020	.01914	pCi/m3	125039003
Hatch	Vegetation	I-131	112	4/28/2020	0	pCi/Kg	125041002
Hatch	Vegetation	K-40	112	4/28/2020	4604.4	pCi/Kg	125041002
Hatch	Vegetation	Cs-134	112	4/28/2020	0	pCi/Kg	125041002
Hatch	Vegetation	Cs-137	112	4/28/2020	0	pCi/Kg	125041002
Hatch	Vegetation	Be-7	112	4/28/2020	3039.3	pCi/Kg	125041002
Hatch	Air Filters	Gross Beta	116	5/5/2020	.02095	pCi/m3	125102004
Hatch	Air Filters	Gross Beta	103	5/5/2020	.02352	pCi/m3	125102001
Hatch	Air Filters	Gross Beta	304	5/5/2020	.02329	pCi/m3	125102005
Hatch	Air Filters	Gross Beta	309	5/5/2020	.02092	pCi/m3	125102006
Hatch	Air Filters	Gross Beta	112	5/5/2020	.0236	pCi/m3	125102003
Hatch	River Water	Zn-65	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Co-60	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Co-58	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Fe-59	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Mn-54	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	K-40	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Zr-95	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Nb-95	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	I-131	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Cs-134	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Cs-137	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Ba-140	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	La-140	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Be-7	170	5/5/2020	0	pCi/L	125104001
Hatch	River Water	Co-58	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	K-40	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Be-7	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	La-140	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Ba-140	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Cs-137	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Co-60	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Zn-65	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Zr-95	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Nb-95	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	I-131	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Cs-134	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Mn-54	172	5/5/2020	0	pCi/L	125104002
Hatch	River Water	Fe-59	172	5/5/2020	0	pCi/L	125104002
Hatch	Air Filters	Gross Beta	116	5/12/2020	.02343	pCi/m3	125167004
Hatch	Air Filters	Gross Beta	103	5/12/2020	.02661	pCi/m3	125167001
Hatch	Milk Gamma	Cs-134	GSP	5/12/2020	0	pCi/L	125162001
Hatch	Milk Gamma	I-131	GSP	5/12/2020	0	pCi/L	125162001
Hatch	Milk Gamma	Cs-137	GSP	5/12/2020	0	pCi/L	125162001
Hatch	Milk Gamma	K-40	GSP	5/12/2020	1563.3	pCi/L	125162001
Hatch	Milk Gamma	Be-7	GSP	5/12/2020	0	pCi/L	125162001
Hatch	Milk Gamma	La-140	GSP	5/12/2020	0	pCi/L	125162001
Hatch	Milk Gamma	Ba-140	GSP	5/12/2020	0	pCi/L	125162001
Hatch	Air Filters	Gross Beta	304	5/12/2020	.02106	pCi/m3	125167005
Hatch	Air Filters	Gross Beta	309	5/12/2020	.02374	pCi/m3	125167006
Hatch	Air Filters	Gross Beta	107	5/12/2020	.02488	pCi/m3	125167002
Hatch	Air Filters	Gross Beta	112	5/12/2020	.0216	pCi/m3	125167003
Hatch	Fish	Co-60	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Co-58	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Fe-59	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Mn-54	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	K-40	172 Bass	5/18/2020	3613	pCi/Kg	125235003
Hatch	Fish	Be-7	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Cs-137	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Cs-134	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Zn-65	172 Bass	5/18/2020	0	pCi/Kg	125235003
Hatch	Fish	Fe-59	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Co-58	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Co-60	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Zn-65	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Cs-134	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Cs-137	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Be-7	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	K-40	172 Carp	5/18/2020	3183.2	pCi/Kg	125235004
Hatch	Fish	Mn-54	172 Carp	5/18/2020	0	pCi/Kg	125235004
Hatch	Fish	Be-7	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Cs-137	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Cs-134	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Zn-65	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Co-60	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Co-58	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Fe-59	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	Mn-54	170 Bass	5/18/2020	0	pCi/Kg	125235001
Hatch	Fish	K-40	170 Bass	5/18/2020	3352.7	pCi/Kg	125235001
Hatch	Fish	Zn-65	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Fish	Cs-134	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Fish	Cs-137	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Fish	Be-7	170 Carp	5/18/2020	0	pCi/Kg	125235002

Hatch	Fish	K-40	170 Carp	5/18/2020	2771.9	pCi/Kg	125235002
Hatch	Fish	Mn-54	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Fish	Fe-59	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Fish	Co-58	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Fish	Co-60	170 Carp	5/18/2020	0	pCi/Kg	125235002
Hatch	Air Filters	Gross Beta	116	5/19/2020	.01816	pCi/m3	125219004
Hatch	Air Filters	Gross Beta	103	5/19/2020	.01891	pCi/m3	125219001
Hatch	Air Filters	Gross Beta	304	5/19/2020	.01751	pCi/m3	125219005
Hatch	Air Filters	Gross Beta	309	5/19/2020	.01774	pCi/m3	125219006
Hatch	Air Filters	Gross Beta	107	5/19/2020	.01779	pCi/m3	125219002
Hatch	Air Filters	Gross Beta	112	5/19/2020	.01643	pCi/m3	125219003
Hatch	Sediment	Cs-137	170	5/19/2020	0	pCi/Kg	125229001
Hatch	Sediment	Cs-134	170	5/19/2020	0	pCi/Kg	125229001
Hatch	Sediment	Co-60	170	5/19/2020	0	pCi/Kg	125229001
Hatch	Sediment	Co-58	170	5/19/2020	0	pCi/Kg	125229001
Hatch	Sediment	K-40	170	5/19/2020	3844.9	pCi/Kg	125229001
Hatch	Sediment	Be-7	170	5/19/2020	0	pCi/Kg	125229001
Hatch	Sediment	Cs-137	172	5/19/2020	0	pCi/Kg	125229002
Hatch	Sediment	Cs-134	172	5/19/2020	0	pCi/Kg	125229002
Hatch	Sediment	Co-60	172	5/19/2020	0	pCi/Kg	125229002
Hatch	Sediment	Co-58	172	5/19/2020	0	pCi/Kg	125229002
Hatch	Sediment	K-40	172	5/19/2020	11458	pCi/Kg	125229002
Hatch	Sediment	Be-7	172	5/19/2020	1518.1	pCi/Kg	125229002
Hatch	Air Filters	Gross Beta	112	5/26/2020	.02262	pCi/m3	125261003
Hatch	Vegetation	Be-7	112	5/26/2020	1602	pCi/Kg	125263002
Hatch	Vegetation	K-40	112	5/26/2020	3533.2	pCi/Kg	125263002
Hatch	Vegetation	I-131	112	5/26/2020	0	pCi/Kg	125263002
Hatch	Vegetation	Cs-134	112	5/26/2020	0	pCi/Kg	125263002
Hatch	Vegetation	Cs-137	112	5/26/2020	0	pCi/Kg	125263002
Hatch	Vegetation	Cs-134	106	5/26/2020	0	pCi/Kg	125263003
Hatch	Vegetation	Cs-137	106	5/26/2020	51.576	pCi/Kg	125263003
Hatch	Vegetation	Be-7	106	5/26/2020	1997.6	pCi/Kg	125263003
Hatch	Vegetation	K-40	106	5/26/2020	2230.6	pCi/Kg	125263003
Hatch	Vegetation	I-131	106	5/26/2020	0	pCi/Kg	125263003
Hatch	Air Filters	Gross Beta	107	5/26/2020	.02197	pCi/m3	125261002
Hatch	Air Filters	Gross Beta	309	5/26/2020	.02362	pCi/m3	125261006
Hatch	Air Filters	Gross Beta	304	5/26/2020	.02227	pCi/m3	125261005
Hatch	Milk Gamma	K-40	GSP	5/26/2020	1507	pCi/L	125260001
Hatch	Milk Gamma	Be-7	GSP	5/26/2020	0	pCi/L	125260001
Hatch	Milk Gamma	La-140	GSP	5/26/2020	0	pCi/L	125260001
Hatch	Milk Gamma	Ba-140	GSP	5/26/2020	0	pCi/L	125260001
Hatch	Milk Gamma	Cs-137	GSP	5/26/2020	0	pCi/L	125260001
Hatch	Milk Gamma	Cs-134	GSP	5/26/2020	0	pCi/L	125260001
Hatch	Milk Gamma	I-131	GSP	5/26/2020	0	pCi/L	125260001
Hatch	Air Filters	Gross Beta	103	5/26/2020	.02356	pCi/m3	125261001
Hatch	Air Filters	Gross Beta	116	5/26/2020	.02036	pCi/m3	125261004
Hatch	Vegetation	Cs-134	416	5/26/2020	0	pCi/Kg	125263001
Hatch	Vegetation	Cs-137	416	5/26/2020	0	pCi/Kg	125263001
Hatch	Vegetation	Be-7	416	5/26/2020	2193.9	pCi/Kg	125263001
Hatch	Vegetation	K-40	416	5/26/2020	3969.2	pCi/Kg	125263001
Hatch	Vegetation	I-131	416	5/26/2020	0	pCi/Kg	125263001
Hatch	Air Filters	Gross Beta	116	6/2/2020	.0162	pCi/m3	125328004
Hatch	Air Filters	Gross Beta	103	6/2/2020	.01789	pCi/m3	125328001
Hatch	Air Filters	Gross Beta	304	6/2/2020	.01535	pCi/m3	125328005
Hatch	Air Filters	Gross Beta	309	6/2/2020	.01814	pCi/m3	125328006
Hatch	Air Filters	Gross Beta	107	6/2/2020	.01946	pCi/m3	125328002
Hatch	Air Filters	Gross Beta	112	6/2/2020	.01414	pCi/m3	125328003
Hatch	River Water	Fe-59	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Co-58	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Co-60	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Zn-65	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Zr-95	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Nb-95	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	I-131	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Cs-134	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Cs-137	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Ba-140	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	La-140	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Be-7	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	K-40	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Mn-54	170	6/2/2020	0	pCi/L	125325001
Hatch	River Water	Fe-59	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Co-58	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Co-60	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Zn-65	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Zr-95	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Nb-95	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	I-131	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Cs-134	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Cs-137	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Ba-140	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	La-140	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Be-7	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	K-40	172	6/2/2020	0	pCi/L	125325002
Hatch	River Water	Mn-54	172	6/2/2020	0	pCi/L	125325002
Hatch	Air Filters	Gross Beta	116	6/9/2020	.01756	pCi/m3	125383004
Hatch	Air Filters	Gross Beta	103	6/9/2020	.01863	pCi/m3	125383001

Hatch	Milk Gamma	Be-7	GSP	6/9/2020	0	pCi/L	125380001
Hatch	Milk Gamma	La-140	GSP	6/9/2020	0	pCi/L	125380001
Hatch	Milk Gamma	Ba-140	GSP	6/9/2020	0	pCi/L	125380001
Hatch	Milk Gamma	Cs-137	GSP	6/9/2020	0	pCi/L	125380001
Hatch	Milk Gamma	Cs-134	GSP	6/9/2020	0	pCi/L	125380001
Hatch	Milk Gamma	I-131	GSP	6/9/2020	0	pCi/L	125380001
Hatch	Milk Gamma	K-40	GSP	6/9/2020	1285.8	pCi/L	125380001
Hatch	Air Filters	Gross Beta	304	6/9/2020	.02147	pCi/m3	125383005
Hatch	Air Filters	Gross Beta	309	6/9/2020	.01921	pCi/m3	125383006
Hatch	Air Filters	Gross Beta	107	6/9/2020	.01673	pCi/m3	125383002
Hatch	Air Filters	Gross Beta	112	6/9/2020	.01812	pCi/m3	125383003
Hatch	Air Filters	Gross Beta	116	6/16/2020	.01723	pCi/m3	125434004
Hatch	Air Filters	Gross Beta	103	6/16/2020	.01714	pCi/m3	125434001
Hatch	Air Filters	Gross Beta	304	6/16/2020	.01745	pCi/m3	125434005
Hatch	Air Filters	Gross Beta	309	6/16/2020	.01536	pCi/m3	125434006
Hatch	Air Filters	Gross Beta	107	6/16/2020	.01699	pCi/m3	125434002
Hatch	Air Filters	Gross Beta	112	6/16/2020	.0138	pCi/m3	125434003
Hatch	Vegetation	Cs-134	416	6/22/2020	0	pCi/Kg	125475001
Hatch	Vegetation	Cs-137	416	6/22/2020	49.79	pCi/Kg	125475001
Hatch	Vegetation	Be-7	416	6/22/2020	1626.4	pCi/Kg	125475001
Hatch	Vegetation	K-40	416	6/22/2020	4249.2	pCi/Kg	125475001
Hatch	Vegetation	I-131	416	6/22/2020	0	pCi/Kg	125475001
Hatch	Air Filters	Gross Beta	116	6/23/2020	.02101	pCi/m3	125491004
Hatch	Air Filters	Gross Beta	103	6/23/2020	.02167	pCi/m3	125491001
Hatch	Milk Gamma	K-40	GSP	6/23/2020	908.9	pCi/L	125474001
Hatch	Milk Gamma	Be-7	GSP	6/23/2020	0	pCi/L	125474001
Hatch	Milk Gamma	La-140	GSP	6/23/2020	0	pCi/L	125474001
Hatch	Milk Gamma	Ba-140	GSP	6/23/2020	0	pCi/L	125474001
Hatch	Milk Gamma	Cs-137	GSP	6/23/2020	0	pCi/L	125474001
Hatch	Milk Gamma	Cs-134	GSP	6/23/2020	0	pCi/L	125474001
Hatch	Milk Gamma	I-131	GSP	6/23/2020	0	pCi/L	125474001
Hatch	Air Filters	Gross Beta	304	6/23/2020	.01971	pCi/m3	125491005
Hatch	Air Filters	Gross Beta	309	6/23/2020	.02268	pCi/m3	125491006
Hatch	Air Filters	Gross Beta	107	6/23/2020	.02097	pCi/m3	125491002
Hatch	Vegetation	I-131	106	6/23/2020	0	pCi/Kg	125475003
Hatch	Vegetation	Cs-134	106	6/23/2020	0	pCi/Kg	125475003
Hatch	Vegetation	Cs-137	106	6/23/2020	40.439	pCi/Kg	125475003
Hatch	Vegetation	Be-7	106	6/23/2020	1350.6	pCi/Kg	125475003
Hatch	Vegetation	K-40	106	6/23/2020	3004.9	pCi/Kg	125475003
Hatch	Air Filters	Gross Beta	112	6/23/2020	.01954	pCi/m3	125491003
Hatch	Vegetation	Cs-137	112	6/23/2020	0	pCi/Kg	125475002
Hatch	Vegetation	Cs-134	112	6/23/2020	0	pCi/Kg	125475002
Hatch	Vegetation	I-131	112	6/23/2020	0	pCi/Kg	125475002
Hatch	Vegetation	Be-7	112	6/23/2020	1143.9	pCi/Kg	125475002
Hatch	Vegetation	K-40	112	6/23/2020	4869.7	pCi/Kg	125475002
Hatch	Air Qtr Comp	Cs-134	116	6/29/2020	0	pCi/m3	125783004
Hatch	Air Qtr Comp	Cs-137	116	6/29/2020	0	pCi/m3	125783004
Hatch	Air Qtr Comp	Be-7	116	6/29/2020	.1067	pCi/m3	125783004
Hatch	Air Filters	Gross Beta	116	6/29/2020	.02122	pCi/m3	125568004
Hatch	Air Qtr Comp	I-131	116	6/29/2020	0	pCi/m3	125783004
Hatch	Air Qtr Comp	Cs-134	103	6/29/2020	0	pCi/m3	125783001
Hatch	Air Qtr Comp	I-131	103	6/29/2020	0	pCi/m3	125783001
Hatch	Air Filters	Gross Beta	103	6/29/2020	.01988	pCi/m3	125568001
Hatch	Air Qtr Comp	Cs-137	103	6/29/2020	0	pCi/m3	125783001
Hatch	Air Qtr Comp	Be-7	103	6/29/2020	.08709	pCi/m3	125783001
Hatch	Air Qtr Comp	Cs-137	304	6/29/2020	0	pCi/m3	125783005
Hatch	Air Qtr Comp	Cs-134	304	6/29/2020	0	pCi/m3	125783005
Hatch	Air Filters	Gross Beta	304	6/29/2020	.02221	pCi/m3	125568005
Hatch	Air Qtr Comp	I-131	304	6/29/2020	0	pCi/m3	125783005
Hatch	Air Qtr Comp	Be-7	304	6/29/2020	.06709	pCi/m3	125783005
Hatch	Air Qtr Comp	I-131	309	6/29/2020	0	pCi/m3	125783006
Hatch	Air Qtr Comp	Cs-134	309	6/29/2020	0	pCi/m3	125783006
Hatch	Air Qtr Comp	Cs-137	309	6/29/2020	0	pCi/m3	125783006
Hatch	Air Qtr Comp	Be-7	309	6/29/2020	.08902	pCi/m3	125783006
Hatch	Air Filters	Gross Beta	309	6/29/2020	.02224	pCi/m3	125568006
Hatch	Air Filters	Gross Beta	107	6/29/2020	.0217	pCi/m3	125568002
Hatch	Air Qtr Comp	I-131	107	6/29/2020	0	pCi/m3	125783002
Hatch	Air Qtr Comp	Cs-134	107	6/29/2020	0	pCi/m3	125783002
Hatch	Air Qtr Comp	Cs-137	107	6/29/2020	0	pCi/m3	125783002
Hatch	Air Qtr Comp	Be-7	107	6/29/2020	.1135	pCi/m3	125783002
Hatch	Air Qtr Comp	Be-7	112	6/29/2020	.08217	pCi/m3	125783003
Hatch	Air Qtr Comp	Cs-137	112	6/29/2020	0	pCi/m3	125783003
Hatch	Air Qtr Comp	Cs-134	112	6/29/2020	0	pCi/m3	125783003
Hatch	Air Qtr Comp	I-131	112	6/29/2020	0	pCi/m3	125783003
Hatch	Air Filters	Gross Beta	112	6/29/2020	.01643	pCi/m3	125568003
Hatch	Air Filters	Gross Beta	116	7/6/2020	.02071	pCi/m3	125602004
Hatch	Air Filters	Gross Beta	103	7/6/2020	.01596	pCi/m3	125602001
Hatch	Air Filters	Gross Beta	304	7/6/2020	.02055	pCi/m3	125602005
Hatch	Air Filters	Gross Beta	309	7/6/2020	.02034	pCi/m3	125602006
Hatch	Air Filters	Gross Beta	107	7/6/2020	.0207	pCi/m3	125602002
Hatch	Air Filters	Gross Beta	112	7/6/2020	.01588	pCi/m3	125602003
Hatch	River Water	Ba-140	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	La-140	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Be-7	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	K-40	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Mn-54	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Fe-59	172	7/7/2020	0	pCi/L	125604002

Hatch	River Water	Co-58	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Co-60	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Zn-65	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Zr-95	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Nb-95	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	I-131	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Cs-134	172	7/7/2020	0	pCi/L	125604002
Hatch	H-3 Water	Tritium	172	7/7/2020	0	pCi/L	125731002
Hatch	River Water	Cs-137	172	7/7/2020	0	pCi/L	125604002
Hatch	River Water	Co-60	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Zn-65	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Zr-95	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Nb-95	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	I-131	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Cs-134	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Cs-137	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Ba-140	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	La-140	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Be-7	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	K-40	170	7/7/2020	0	pCi/L	125604001
Hatch	H-3 Water	Tritium	170	7/7/2020	0	pCi/L	125731001
Hatch	River Water	Mn-54	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Fe-59	170	7/7/2020	0	pCi/L	125604001
Hatch	River Water	Co-58	170	7/7/2020	0	pCi/L	125604001
Hatch	Air Filters	Gross Beta	116	7/14/2020	.01368	pCi/m3	125666004
Hatch	Air Filters	Gross Beta	103	7/14/2020	.01493	pCi/m3	125666001
Hatch	Milk Gamma	Cs-134	GSP	7/14/2020	0	pCi/L	125668001
Hatch	Milk Gamma	Cs-137	GSP	7/14/2020	0	pCi/L	125668001
Hatch	Milk Gamma	Ba-140	GSP	7/14/2020	0	pCi/L	125668001
Hatch	Milk Gamma	La-140	GSP	7/14/2020	0	pCi/L	125668001
Hatch	Milk Gamma	Be-7	GSP	7/14/2020	0	pCi/L	125668001
Hatch	Milk Gamma	K-40	GSP	7/14/2020	691.22	pCi/L	125668001
Hatch	Milk Gamma	I-131	GSP	7/14/2020	0	pCi/L	125668001
Hatch	Air Filters	Gross Beta	304	7/14/2020	.01663	pCi/m3	125666005
Hatch	Air Filters	Gross Beta	309	7/14/2020	.01649	pCi/m3	125666006
Hatch	Air Filters	Gross Beta	107	7/14/2020	.01706	pCi/m3	125666002
Hatch	Air Filters	Gross Beta	112	7/14/2020	.01794	pCi/m3	125666003
Hatch	Air Filters	Gross Beta	116	7/21/2020	.02527	pCi/m3	125779004
Hatch	Air Filters	Gross Beta	103	7/21/2020	.02326	pCi/m3	125779001
Hatch	Air Filters	Gross Beta	304	7/21/2020	.02716	pCi/m3	125779005
Hatch	Air Filters	Gross Beta	309	7/21/2020	.02418	pCi/m3	125779006
Hatch	Air Filters	Gross Beta	107	7/21/2020	.026	pCi/m3	125779002
Hatch	Air Filters	Gross Beta	112	7/21/2020	.02617	pCi/m3	125779003
Hatch	Vegetation	I-131	416	7/27/2020	0	pCi/Kg	125862001
Hatch	Vegetation	Cs-134	416	7/27/2020	0	pCi/Kg	125862001
Hatch	Vegetation	Cs-137	416	7/27/2020	0	pCi/Kg	125862001
Hatch	Vegetation	Be-7	416	7/27/2020	727.3	pCi/Kg	125862001
Hatch	Vegetation	K-40	416	7/27/2020	3744.9	pCi/Kg	125862001
Hatch	Air Filters	Gross Beta	116	7/28/2020	.01483	pCi/m3	125888004
Hatch	Air Filters	Gross Beta	103	7/28/2020	.01265	pCi/m3	125888001
Hatch	Milk Gamma	I-131	GSP	7/28/2020	0	pCi/L	125860001
Hatch	Milk Gamma	Cs-134	GSP	7/28/2020	0	pCi/L	125860001
Hatch	Milk Gamma	Cs-137	GSP	7/28/2020	0	pCi/L	125860001
Hatch	Milk Gamma	Ba-140	GSP	7/28/2020	0	pCi/L	125860001
Hatch	Milk Gamma	La-140	GSP	7/28/2020	0	pCi/L	125860001
Hatch	Milk Gamma	Be-7	GSP	7/28/2020	0	pCi/L	125860001
Hatch	Milk Gamma	K-40	GSP	7/28/2020	1224.2	pCi/L	125860001
Hatch	Air Filters	Gross Beta	304	7/28/2020	.01275	pCi/m3	125888005
Hatch	Air Filters	Gross Beta	309	7/28/2020	.01549	pCi/m3	125888006
Hatch	Air Filters	Gross Beta	107	7/28/2020	.01114	pCi/m3	125888002
Hatch	Vegetation	I-131	106	7/28/2020	0	pCi/Kg	125862003
Hatch	Vegetation	Cs-134	106	7/28/2020	0	pCi/Kg	125862003
Hatch	Vegetation	Cs-137	106	7/28/2020	56.74	pCi/Kg	125862003
Hatch	Vegetation	Be-7	106	7/28/2020	2072	pCi/Kg	125862003
Hatch	Vegetation	K-40	106	7/28/2020	3696.2	pCi/Kg	125862003
Hatch	Air Filters	Gross Beta	112	7/28/2020	.01315	pCi/m3	125888003
Hatch	Vegetation	Cs-134	112	7/28/2020	0	pCi/Kg	125862002
Hatch	Vegetation	I-131	112	7/28/2020	0	pCi/Kg	125862002
Hatch	Vegetation	K-40	112	7/28/2020	3976.4	pCi/Kg	125862002
Hatch	Vegetation	Cs-137	112	7/28/2020	0	pCi/Kg	125862002
Hatch	Vegetation	Be-7	112	7/28/2020	1683.6	pCi/Kg	125862002
Hatch	Air Filters	Gross Beta	116	8/4/2020	.01876	pCi/m3	125967004
Hatch	Air Filters	Gross Beta	103	8/4/2020	.02075	pCi/m3	125967001
Hatch	Air Filters	Gross Beta	304	8/4/2020	.02191	pCi/m3	125967005
Hatch	Air Filters	Gross Beta	309	8/4/2020	.02464	pCi/m3	125967006
Hatch	Air Filters	Gross Beta	107	8/4/2020	.02277	pCi/m3	125967002
Hatch	Air Filters	Gross Beta	112	8/4/2020	.01923	pCi/m3	125967003
Hatch	River Water	Nb-95	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	K-40	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Mn-54	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Fe-59	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Co-58	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Co-60	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Zn-65	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Zr-95	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	I-131	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Cs-134	170	8/4/2020	0	pCi/L	125964001

Hatch	River Water	Cs-137	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Ba-140	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	La-140	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	Be-7	170	8/4/2020	0	pCi/L	125964001
Hatch	River Water	I-131	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Cs-134	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Cs-137	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Ba-140	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	La-140	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Be-7	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	K-40	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Mn-54	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Fe-59	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Co-58	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Co-60	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Zn-65	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Zr-95	172	8/4/2020	0	pCi/L	125964002
Hatch	River Water	Nb-95	172	8/4/2020	0	pCi/L	125964002
Hatch	Air Filters	Gross Beta	116	8/10/2020	.02343	pCi/m3	126051004
Hatch	Air Filters	Gross Beta	103	8/10/2020	.01719	pCi/m3	126051001
Hatch	Air Filters	Gross Beta	304	8/10/2020	.01594	pCi/m3	126051005
Hatch	Air Filters	Gross Beta	309	8/10/2020	.01845	pCi/m3	126051006
Hatch	Air Filters	Gross Beta	107	8/10/2020	.01774	pCi/m3	126051002
Hatch	Air Filters	Gross Beta	112	8/10/2020	.02179	pCi/m3	126051003
Hatch	Milk Gamma	La-140	GSP	8/11/2020	0	pCi/L	126049001
Hatch	Milk Gamma	Ba-140	GSP	8/11/2020	0	pCi/L	126049001
Hatch	Milk Gamma	Cs-137	GSP	8/11/2020	0	pCi/L	126049001
Hatch	Milk Gamma	Cs-134	GSP	8/11/2020	0	pCi/L	126049001
Hatch	Milk Gamma	I-131	GSP	8/11/2020	0	pCi/L	126049001
Hatch	Milk Gamma	K-40	GSP	8/11/2020	1737.7	pCi/L	126049001
Hatch	Milk Gamma	Be-7	GSP	8/11/2020	0	pCi/L	126049001
Hatch	Air Filters	Gross Beta	116	8/17/2020	.02457	pCi/m3	126178004
Hatch	Air Filters	Gross Beta	103	8/17/2020	.025	pCi/m3	126178001
Hatch	Air Filters	Gross Beta	304	8/17/2020	.02333	pCi/m3	126178005
Hatch	Air Filters	Gross Beta	309	8/17/2020	.02137	pCi/m3	126178006
Hatch	Air Filters	Gross Beta	107	8/17/2020	.02466	pCi/m3	126178002
Hatch	Air Filters	Gross Beta	112	8/17/2020	.03632	pCi/m3	126178003
Hatch	Vegetation	Cs-134	106	8/24/2020	0	pCi/Kg	126264003
Hatch	Vegetation	Cs-137	106	8/24/2020	0	pCi/Kg	126264003
Hatch	Vegetation	Be-7	106	8/24/2020	2055.7	pCi/Kg	126264003
Hatch	Vegetation	K-40	106	8/24/2020	2369.3	pCi/Kg	126264003
Hatch	Vegetation	I-131	106	8/24/2020	0	pCi/Kg	126264003
Hatch	Air Filters	Gross Beta	107	8/24/2020	.02053	pCi/m3	126272002
Hatch	Vegetation	Cs-134	112	8/24/2020	0	pCi/Kg	126264002
Hatch	Vegetation	K-40	112	8/24/2020	3667.2	pCi/Kg	126264002
Hatch	Vegetation	Be-7	112	8/24/2020	2241.5	pCi/Kg	126264002
Hatch	Vegetation	I-131	112	8/24/2020	0	pCi/Kg	126264002
Hatch	Vegetation	Cs-137	112	8/24/2020	0	pCi/Kg	126264002
Hatch	Air Filters	Gross Beta	309	8/24/2020	.01769	pCi/m3	126272005
Hatch	Air Filters	Gross Beta	304	8/24/2020	.01765	pCi/m3	126272004
Hatch	Air Filters	Gross Beta	103	8/24/2020	.02022	pCi/m3	126272001
Hatch	Air Filters	Gross Beta	116	8/24/2020	.02483	pCi/m3	126272003
Hatch	Vegetation	Cs-134	416	8/24/2020	0	pCi/Kg	126264001
Hatch	Vegetation	Cs-137	416	8/24/2020	34.822	pCi/Kg	126264001
Hatch	Vegetation	Be-7	416	8/24/2020	2132.4	pCi/Kg	126264001
Hatch	Vegetation	K-40	416	8/24/2020	4013.7	pCi/Kg	126264001
Hatch	Vegetation	I-131	416	8/24/2020	0	pCi/Kg	126264001
Hatch	Milk Gamma	K-40	GSP	8/25/2020	1741.3	pCi/L	126263001
Hatch	Milk Gamma	Be-7	GSP	8/25/2020	0	pCi/L	126263001
Hatch	Milk Gamma	La-140	GSP	8/25/2020	0	pCi/L	126263001
Hatch	Milk Gamma	Ba-140	GSP	8/25/2020	0	pCi/L	126263001
Hatch	Milk Gamma	Cs-137	GSP	8/25/2020	0	pCi/L	126263001
Hatch	Milk Gamma	Cs-134	GSP	8/25/2020	0	pCi/L	126263001
Hatch	Milk Gamma	I-131	GSP	8/25/2020	0	pCi/L	126263001
Hatch	River Water	Cs-134	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Cs-137	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Ba-140	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	La-140	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Be-7	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	K-40	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Mn-54	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Fe-59	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Co-58	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Co-60	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Zn-65	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Zr-95	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Nb-95	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	I-131	172	8/31/2020	0	pCi/L	126340002
Hatch	River Water	Nb-95	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	I-131	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Cs-134	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Cs-137	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Ba-140	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	La-140	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Be-7	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	K-40	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Mn-54	170	8/31/2020	0	pCi/L	126340001

Hatch	River Water	Fe-59	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Co-58	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Co-60	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Zn-65	170	8/31/2020	0	pCi/L	126340001
Hatch	River Water	Zr-95	170	8/31/2020	0	pCi/L	126340001
Hatch	Air Filters	Gross Beta	116	8/31/2020	.01701	pCi/m3	126343004
Hatch	Air Filters	Gross Beta	103	8/31/2020	.01644	pCi/m3	126343001
Hatch	Air Filters	Gross Beta	304	8/31/2020	.01632	pCi/m3	126343005
Hatch	Air Filters	Gross Beta	309	8/31/2020	.01399	pCi/m3	126343006
Hatch	Air Filters	Gross Beta	107	8/31/2020	.01892	pCi/m3	126343002
Hatch	Air Filters	Gross Beta	112	8/31/2020	.01548	pCi/m3	126343003
Hatch	Air Filters	Gross Beta	116	9/8/2020	.02903	pCi/m3	126433004
Hatch	Air Filters	Gross Beta	103	9/8/2020	.02761	pCi/m3	126433001
Hatch	Milk Gamma	Be-7	GSP	9/8/2020	0	pCi/L	126414001
Hatch	Milk Gamma	La-140	GSP	9/8/2020	0	pCi/L	126414001
Hatch	Milk Gamma	Ba-140	GSP	9/8/2020	0	pCi/L	126414001
Hatch	Milk Gamma	Cs-137	GSP	9/8/2020	0	pCi/L	126414001
Hatch	Milk Gamma	Cs-134	GSP	9/8/2020	0	pCi/L	126414001
Hatch	Milk Gamma	I-131	GSP	9/8/2020	0	pCi/L	126414001
Hatch	Milk Gamma	K-40	GSP	9/8/2020	1759	pCi/L	126414001
Hatch	Air Filters	Gross Beta	304	9/8/2020	.02721	pCi/m3	126433005
Hatch	Air Filters	Gross Beta	309	9/8/2020	.02661	pCi/m3	126433006
Hatch	Air Filters	Gross Beta	107	9/8/2020	.02991	pCi/m3	126433002
Hatch	Air Filters	Gross Beta	112	9/8/2020	.0268	pCi/m3	126433003
Hatch	Air Filters	Gross Beta	116	9/14/2020	.01491	pCi/m3	126498004
Hatch	Air Filters	Gross Beta	103	9/14/2020	.01594	pCi/m3	126498001
Hatch	Air Filters	Gross Beta	304	9/14/2020	.01517	pCi/m3	126498005
Hatch	Air Filters	Gross Beta	309	9/14/2020	.01719	pCi/m3	126498006
Hatch	Air Filters	Gross Beta	107	9/14/2020	.01424	pCi/m3	126498002
Hatch	Air Filters	Gross Beta	112	9/14/2020	.0117	pCi/m3	126498003
Hatch	Air Filters	Gross Beta	116	9/22/2020	.01994	pCi/m3	126680004
Hatch	Air Filters	Gross Beta	103	9/22/2020	.01638	pCi/m3	126680001
Hatch	Milk Gamma	Ba-140	GSP	9/22/2020	0	pCi/L	126676001
Hatch	Milk Gamma	Cs-137	GSP	9/22/2020	0	pCi/L	126676001
Hatch	Milk Gamma	Cs-134	GSP	9/22/2020	0	pCi/L	126676001
Hatch	Milk Gamma	I-131	GSP	9/22/2020	0	pCi/L	126676001
Hatch	Milk Gamma	K-40	GSP	9/22/2020	1753.5	pCi/L	126676001
Hatch	Milk Gamma	Be-7	GSP	9/22/2020	0	pCi/L	126676001
Hatch	Milk Gamma	La-140	GSP	9/22/2020	0	pCi/L	126676001
Hatch	Air Filters	Gross Beta	304	9/22/2020	.01975	pCi/m3	126680005
Hatch	Air Filters	Gross Beta	309	9/22/2020	.01777	pCi/m3	126680006
Hatch	Air Filters	Gross Beta	107	9/22/2020	.0201	pCi/m3	126680002
Hatch	Air Filters	Gross Beta	112	9/22/2020	.01901	pCi/m3	126680003
Hatch	Air Qtr Comp	I-131	116	9/28/2020	0	pCi/m3	126933004
Hatch	Air Qtr Comp	Cs-134	116	9/28/2020	0	pCi/m3	126933004
Hatch	Air Filters	Gross Beta	116	9/28/2020	.01798	pCi/m3	126757004
Hatch	Air Qtr Comp	Be-7	116	9/28/2020	.07002	pCi/m3	126933004
Hatch	Air Qtr Comp	Cs-137	116	9/28/2020	0	pCi/m3	126933004
Hatch	Air Qtr Comp	Cs-137	103	9/28/2020	0	pCi/m3	126933001
Hatch	Air Qtr Comp	Cs-134	103	9/28/2020	0	pCi/m3	126933001
Hatch	Air Filters	Gross Beta	103	9/28/2020	.02014	pCi/m3	126757001
Hatch	Air Qtr Comp	I-131	103	9/28/2020	0	pCi/m3	126933001
Hatch	Air Qtr Comp	Be-7	103	9/28/2020	.08519	pCi/m3	126933001
Hatch	Air Qtr Comp	I-131	304	9/28/2020	0	pCi/m3	126933005
Hatch	Air Qtr Comp	Cs-134	304	9/28/2020	0	pCi/m3	126933005
Hatch	Air Qtr Comp	Cs-137	304	9/28/2020	0	pCi/m3	126933005
Hatch	Air Qtr Comp	Be-7	304	9/28/2020	.07049	pCi/m3	126933005
Hatch	Air Filters	Gross Beta	304	9/28/2020	.01826	pCi/m3	126757005
Hatch	Air Qtr Comp	I-131	309	9/28/2020	0	pCi/m3	126933006
Hatch	Air Qtr Comp	Cs-137	309	9/28/2020	0	pCi/m3	126933006
Hatch	Air Qtr Comp	Cs-134	309	9/28/2020	0	pCi/m3	126933006
Hatch	Air Filters	Gross Beta	309	9/28/2020	.01601	pCi/m3	126757006
Hatch	Air Qtr Comp	Be-7	309	9/28/2020	.08701	pCi/m3	126933006
Hatch	Air Qtr Comp	Cs-137	107	9/28/2020	0	pCi/m3	126933002
Hatch	Air Qtr Comp	Cs-134	107	9/28/2020	0	pCi/m3	126933002
Hatch	Air Filters	Gross Beta	107	9/28/2020	.02181	pCi/m3	126757002
Hatch	Air Qtr Comp	I-131	107	9/28/2020	0	pCi/m3	126933002
Hatch	Air Qtr Comp	Be-7	107	9/28/2020	.07505	pCi/m3	126933002
Hatch	Vegetation	I-131	106	9/28/2020	0	pCi/Kg	126759003
Hatch	Vegetation	Cs-134	106	9/28/2020	0	pCi/Kg	126759003
Hatch	Vegetation	Cs-137	106	9/28/2020	28.851	pCi/Kg	126759003
Hatch	Vegetation	Be-7	106	9/28/2020	3049.2	pCi/Kg	126759003
Hatch	Vegetation	K-40	106	9/28/2020	3887.3	pCi/Kg	126759003
Hatch	Air Qtr Comp	Be-7	112	9/28/2020	.06217	pCi/m3	126933003
Hatch	Air Qtr Comp	Cs-137	112	9/28/2020	0	pCi/m3	126933003
Hatch	Air Qtr Comp	Cs-134	112	9/28/2020	0	pCi/m3	126933003
Hatch	Air Qtr Comp	I-131	112	9/28/2020	0	pCi/m3	126933003
Hatch	Air Filters	Gross Beta	112	9/28/2020	.01759	pCi/m3	126757003
Hatch	Vegetation	I-131	112	9/28/2020	0	pCi/Kg	126759002
Hatch	Vegetation	Cs-134	112	9/28/2020	0	pCi/Kg	126759002
Hatch	Vegetation	Cs-137	112	9/28/2020	0	pCi/Kg	126759002
Hatch	Vegetation	Be-7	112	9/28/2020	2019.5	pCi/Kg	126759002
Hatch	Vegetation	K-40	112	9/28/2020	3610.4	pCi/Kg	126759002
Hatch	Vegetation	I-131	416	9/28/2020	0	pCi/Kg	126759001
Hatch	Vegetation	Cs-134	416	9/28/2020	0	pCi/Kg	126759001
Hatch	Vegetation	Cs-137	416	9/28/2020	79.977	pCi/Kg	126759001
Hatch	Vegetation	Be-7	416	9/28/2020	2280	pCi/Kg	126759001

Hatch	Vegetation	K-40	416	9/28/2020	3699.8	pCi/Kg	126759001
Hatch	Air Filters	Gross Beta	116	10/5/2020	.02282	pCi/m3	126835004
Hatch	Air Filters	Gross Beta	103	10/5/2020	.02301	pCi/m3	126835001
Hatch	Air Filters	Gross Beta	304	10/5/2020	.02756	pCi/m3	126835005
Hatch	Air Filters	Gross Beta	309	10/5/2020	.02323	pCi/m3	126835006
Hatch	Air Filters	Gross Beta	107	10/5/2020	.02431	pCi/m3	126835002
Hatch	Air Filters	Gross Beta	112	10/5/2020	.02394	pCi/m3	126835003
Hatch	H-3 Water	Tritium	172	10/6/2020	0	pCi/L	127004002
Hatch	River Water	I-131	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Cs-134	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Cs-137	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Ba-140	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	La-140	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Be-7	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	K-40	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Fe-59	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Mn-54	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Co-58	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Co-60	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Zn-65	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Zr-95	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Nb-95	172	10/6/2020	0	pCi/L	126866002
Hatch	River Water	Co-60	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Zn-65	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Zr-95	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Nb-95	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	I-131	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Cs-134	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Cs-137	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Ba-140	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	La-140	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Be-7	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	K-40	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Mn-54	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Fe-59	170	10/6/2020	0	pCi/L	126866001
Hatch	River Water	Co-58	170	10/6/2020	0	pCi/L	126866001
Hatch	H-3 Water	Tritium	170	10/6/2020	0	pCi/L	127004001
Hatch	Air Filters	Gross Beta	116	10/13/2020	.0226	pCi/m3	126935004
Hatch	Air Filters	Gross Beta	103	10/13/2020	.01823	pCi/m3	126935001
Hatch	Milk Gamma	K-40	GSP	10/13/2020	1605.5	pCi/L	126937001
Hatch	Milk Gamma	Be-7	GSP	10/13/2020	0	pCi/L	126937001
Hatch	Milk Gamma	La-140	GSP	10/13/2020	0	pCi/L	126937001
Hatch	Milk Gamma	Ba-140	GSP	10/13/2020	0	pCi/L	126937001
Hatch	Milk Gamma	Cs-137	GSP	10/13/2020	0	pCi/L	126937001
Hatch	Milk Gamma	Cs-134	GSP	10/13/2020	0	pCi/L	126937001
Hatch	Milk Gamma	I-131	GSP	10/13/2020	0	pCi/L	126937001
Hatch	Air Filters	Gross Beta	304	10/13/2020	.02138	pCi/m3	126935005
Hatch	Air Filters	Gross Beta	309	10/13/2020	.02008	pCi/m3	126935006
Hatch	Air Filters	Gross Beta	107	10/13/2020	.02731	pCi/m3	126935002
Hatch	Air Filters	Gross Beta	112	10/13/2020	.02009	pCi/m3	126935003
Hatch	Air Filters	Gross Beta	116	10/19/2020	.03824	pCi/m3	126997004
Hatch	Air Filters	Gross Beta	103	10/19/2020	.03257	pCi/m3	126997001
Hatch	Air Filters	Gross Beta	304	10/19/2020	.03395	pCi/m3	126997005
Hatch	Air Filters	Gross Beta	309	10/19/2020	.03243	pCi/m3	126997006
Hatch	Air Filters	Gross Beta	107	10/19/2020	.03564	pCi/m3	126997002
Hatch	Air Filters	Gross Beta	112	10/19/2020	.0321	pCi/m3	126997003
Hatch	Air Filters	Gross Beta	116	10/26/2020	.01365	pCi/m3	127087004
Hatch	Air Filters	Gross Beta	103	10/26/2020	.01477	pCi/m3	127087001
Hatch	Air Filters	Gross Beta	304	10/26/2020	.01514	pCi/m3	127087005
Hatch	Vegetation	Cs-134	106	10/26/2020	0	pCi/Kg	127089003
Hatch	Vegetation	Cs-137	106	10/26/2020	50.081	pCi/Kg	127089003
Hatch	Vegetation	Be-7	106	10/26/2020	4211	pCi/Kg	127089003
Hatch	Vegetation	K-40	106	10/26/2020	3554	pCi/Kg	127089003
Hatch	Vegetation	I-131	106	10/26/2020	0	pCi/Kg	127089003
Hatch	Air Filters	Gross Beta	309	10/26/2020	.01304	pCi/m3	127087006
Hatch	Fish	K-40	170 Bass	10/26/2020	3505.2	pCi/Kg	127079001
Hatch	Fish	Be-7	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Cs-137	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Cs-134	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Zn-65	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Co-60	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Co-58	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Fe-59	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Mn-54	170 Bass	10/26/2020	0	pCi/Kg	127079001
Hatch	Fish	Mn-54	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Fe-59	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Co-58	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Co-60	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Zn-65	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Cs-134	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Cs-137	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	Be-7	170 Sucker	10/26/2020	0	pCi/Kg	127079002
Hatch	Fish	K-40	170 Sucker	10/26/2020	3871	pCi/Kg	127079002
Hatch	Air Filters	Gross Beta	107	10/26/2020	.01248	pCi/m3	127087002
Hatch	Air Filters	Gross Beta	112	10/26/2020	.01338	pCi/m3	127087003
Hatch	Vegetation	I-131	112	10/26/2020	0	pCi/Kg	127089002
Hatch	Vegetation	Cs-134	112	10/26/2020	0	pCi/Kg	127089002

Hatch	Vegetation	Cs-137	112	10/26/2020	0	pCi/Kg	127089002
Hatch	Vegetation	K-40	112	10/26/2020	3379.6	pCi/Kg	127089002
Hatch	Vegetation	Be-7	112	10/26/2020	3854	pCi/Kg	127089002
Hatch	Fish	Fe-59	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Mn-54	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	K-40	172 Bass	10/26/2020	3849.1	pCi/Kg	127079003
Hatch	Fish	Be-7	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Cs-137	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Cs-134	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Zn-65	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Co-60	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Co-58	172 Bass	10/26/2020	0	pCi/Kg	127079003
Hatch	Fish	Mn-54	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Cs-134	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Cs-137	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Be-7	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	K-40	172 Carp	10/26/2020	3306.6	pCi/Kg	127079004
Hatch	Fish	Fe-59	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Co-58	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Co-60	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Zn-65	172 Carp	10/26/2020	0	pCi/Kg	127079004
Hatch	Fish	Mn-54	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Fe-59	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Co-58	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Co-60	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Zn-65	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Cs-134	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Cs-137	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	Be-7	172 Sucker	10/26/2020	0	pCi/Kg	127079005
Hatch	Fish	K-40	172 Sucker	10/26/2020	2948.5	pCi/Kg	127079005
Hatch	Vegetation	K-40	416	10/26/2020	5003.5	pCi/Kg	127089001
Hatch	Vegetation	Be-7	416	10/26/2020	2325.9	pCi/Kg	127089001
Hatch	Vegetation	Cs-137	416	10/26/2020	0	pCi/Kg	127089001
Hatch	Vegetation	Cs-134	416	10/26/2020	0	pCi/Kg	127089001
Hatch	Vegetation	I-131	416	10/26/2020	0	pCi/Kg	127089001
Hatch	Milk Gamma	K-40	GSP	10/27/2020	1494.1	pCi/L	127080001
Hatch	Milk Gamma	Be-7	GSP	10/27/2020	0	pCi/L	127080001
Hatch	Milk Gamma	La-140	GSP	10/27/2020	0	pCi/L	127080001
Hatch	Milk Gamma	Ba-140	GSP	10/27/2020	0	pCi/L	127080001
Hatch	Milk Gamma	Cs-137	GSP	10/27/2020	0	pCi/L	127080001
Hatch	Milk Gamma	Cs-134	GSP	10/27/2020	0	pCi/L	127080001
Hatch	Milk Gamma	I-131	GSP	10/27/2020	0	pCi/L	127080001
Hatch	Air Filters	Gross Beta	116	11/2/2020	.02002	pCi/m3	127136004
Hatch	Air Filters	Gross Beta	103	11/2/2020	.0194	pCi/m3	127136001
Hatch	Air Filters	Gross Beta	304	11/2/2020	.01882	pCi/m3	127136005
Hatch	Air Filters	Gross Beta	309	11/2/2020	.01629	pCi/m3	127136006
Hatch	Air Filters	Gross Beta	107	11/2/2020	.01909	pCi/m3	127136002
Hatch	Air Filters	Gross Beta	112	11/2/2020	.01959	pCi/m3	127136003
Hatch	River Water	Nb-95	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Zr-95	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Zn-65	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Co-60	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Co-58	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Fe-59	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Be-7	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	K-40	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	I-131	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Cs-134	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Cs-137	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Ba-140	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	La-140	170	11/3/2020	0	pCi/L	127138001
Hatch	River Water	Mn-54	170	11/3/2020	0	pCi/L	127138001
Hatch	Sediment	Be-7	170	11/3/2020	168.56	pCi/Kg	127139001
Hatch	Sediment	Cs-137	170	11/3/2020	0	pCi/Kg	127139001
Hatch	Sediment	Cs-134	170	11/3/2020	0	pCi/Kg	127139001
Hatch	Sediment	Co-60	170	11/3/2020	0	pCi/Kg	127139001
Hatch	Sediment	Co-58	170	11/3/2020	0	pCi/Kg	127139001
Hatch	Sediment	K-40	170	11/3/2020	3906.8	pCi/Kg	127139001
Hatch	Sediment	Be-7	172	11/3/2020	0	pCi/Kg	127139002
Hatch	Sediment	Cs-137	172	11/3/2020	0	pCi/Kg	127139002
Hatch	Sediment	Cs-134	172	11/3/2020	0	pCi/Kg	127139002
Hatch	Sediment	Co-60	172	11/3/2020	0	pCi/Kg	127139002
Hatch	Sediment	Co-58	172	11/3/2020	0	pCi/Kg	127139002
Hatch	Sediment	K-40	172	11/3/2020	4412.9	pCi/Kg	127139002
Hatch	River Water	Mn-54	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Fe-59	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Co-58	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Co-60	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Zn-65	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Zr-95	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Nb-95	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	I-131	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	K-40	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Be-7	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	La-140	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Ba-140	172	11/3/2020	0	pCi/L	127138002
Hatch	River Water	Cs-137	172	11/3/2020	0	pCi/L	127138002

Hatch	River Water	Cs-134	172	11/3/2020	0	pCi/L	127138002
Hatch	Air Filters	Gross Beta	116	11/10/2020	.02452	pCi/m3	127220004
Hatch	Air Filters	Gross Beta	103	11/10/2020	.02156	pCi/m3	127220001
Hatch	Milk Gamma	Be-7	GSP	11/10/2020	0	pCi/L	127222001
Hatch	Milk Gamma	La-140	GSP	11/10/2020	0	pCi/L	127222001
Hatch	Milk Gamma	Ba-140	GSP	11/10/2020	0	pCi/L	127222001
Hatch	Milk Gamma	Cs-137	GSP	11/10/2020	0	pCi/L	127222001
Hatch	Milk Gamma	Cs-134	GSP	11/10/2020	0	pCi/L	127222001
Hatch	Milk Gamma	I-131	GSP	11/10/2020	0	pCi/L	127222001
Hatch	Milk Gamma	K-40	GSP	11/10/2020	1974.2	pCi/L	127222001
Hatch	Air Filters	Gross Beta	304	11/10/2020	.01606	pCi/m3	127220005
Hatch	Air Filters	Gross Beta	309	11/10/2020	.01938	pCi/m3	127220006
Hatch	Air Filters	Gross Beta	107	11/10/2020	.02129	pCi/m3	127220002
Hatch	Air Filters	Gross Beta	112	11/10/2020	.02129	pCi/m3	127220003
Hatch	Air Filters	Gross Beta	116	11/16/2020	.0175	pCi/m3	127350004
Hatch	Air Filters	Gross Beta	103	11/16/2020	.01653	pCi/m3	127350001
Hatch	Air Filters	Gross Beta	304	11/16/2020	.01847	pCi/m3	127350005
Hatch	Air Filters	Gross Beta	309	11/16/2020	.01903	pCi/m3	127350006
Hatch	Air Filters	Gross Beta	107	11/16/2020	.02081	pCi/m3	127350002
Hatch	Air Filters	Gross Beta	112	11/16/2020	.01766	pCi/m3	127350003
Hatch	Air Filters	Gross Beta	116	11/23/2020	.0223	pCi/m3	127394004
Hatch	Air Filters	Gross Beta	103	11/23/2020	.02012	pCi/m3	127394001
Hatch	Air Filters	Gross Beta	304	11/23/2020	.01982	pCi/m3	127394005
Hatch	Air Filters	Gross Beta	309	11/23/2020	.01765	pCi/m3	127394006
Hatch	Air Filters	Gross Beta	107	11/23/2020	.01696	pCi/m3	127394002
Hatch	Vegetation	I-131	106	11/23/2020	0	pCi/Kg	127396003
Hatch	Vegetation	Cs-134	106	11/23/2020	0	pCi/Kg	127396003
Hatch	Vegetation	Cs-137	106	11/23/2020	0	pCi/Kg	127396003
Hatch	Vegetation	Be-7	106	11/23/2020	6633.4	pCi/Kg	127396003
Hatch	Vegetation	K-40	106	11/23/2020	3457.2	pCi/Kg	127396003
Hatch	Air Filters	Gross Beta	112	11/23/2020	.01786	pCi/m3	127394003
Hatch	Vegetation	K-40	112	11/23/2020	2539.8	pCi/Kg	127396002
Hatch	Vegetation	Cs-137	112	11/23/2020	0	pCi/Kg	127396002
Hatch	Vegetation	Be-7	112	11/23/2020	2887.1	pCi/Kg	127396002
Hatch	Vegetation	Cs-134	112	11/23/2020	0	pCi/Kg	127396002
Hatch	Vegetation	I-131	112	11/23/2020	0	pCi/Kg	127396002
Hatch	Vegetation	K-40	416	11/23/2020	3612.9	pCi/Kg	127396001
Hatch	Vegetation	Be-7	416	11/23/2020	2624.1	pCi/Kg	127396001
Hatch	Vegetation	Cs-137	416	11/23/2020	47.848	pCi/Kg	127396001
Hatch	Vegetation	Cs-134	416	11/23/2020	0	pCi/Kg	127396001
Hatch	Vegetation	I-131	416	11/23/2020	0	pCi/Kg	127396001
Hatch	Milk Gamma	K-40	GSP	11/24/2020	793.35	pCi/L	127390001
Hatch	Milk Gamma	Be-7	GSP	11/24/2020	0	pCi/L	127390001
Hatch	Milk Gamma	La-140	GSP	11/24/2020	0	pCi/L	127390001
Hatch	Milk Gamma	Ba-140	GSP	11/24/2020	0	pCi/L	127390001
Hatch	Milk Gamma	Cs-137	GSP	11/24/2020	0	pCi/L	127390001
Hatch	Milk Gamma	Cs-134	GSP	11/24/2020	0	pCi/L	127390001
Hatch	Milk Gamma	I-131	GSP	11/24/2020	0	pCi/L	127390001
Hatch	Air Filters	Gross Beta	309	11/30/2020	.0237	pCi/m3	127481006
Hatch	Air Filters	Gross Beta	107	11/30/2020	.02557	pCi/m3	127481002
Hatch	Air Filters	Gross Beta	103	11/30/2020	.02949	pCi/m3	127481001
Hatch	Air Filters	Gross Beta	304	11/30/2020	.0299	pCi/m3	127481005
Hatch	Air Filters	Gross Beta	116	11/30/2020	.02821	pCi/m3	127481004
Hatch	Air Filters	Gross Beta	112	11/30/2020	.02365	pCi/m3	127481003
Hatch	River Water	Fe-59	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Co-58	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Co-60	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Zn-65	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Zr-95	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Nb-95	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	I-131	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Cs-134	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Cs-137	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Ba-140	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	La-140	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Be-7	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	K-40	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Mn-54	170	12/1/2020	0	pCi/L	127476001
Hatch	River Water	Mn-54	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Fe-59	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Co-58	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Co-60	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Zn-65	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Zr-95	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Nb-95	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	I-131	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Cs-134	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Cs-137	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Ba-140	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	Be-7	172	12/1/2020	0	pCi/L	127476002
Hatch	River Water	K-40	172	12/1/2020	111.79	pCi/L	127476002
Hatch	River Water	La-140	172	12/1/2020	0	pCi/L	127476002
Hatch	Air Filters	Gross Beta	116	12/7/2020	.02938	pCi/m3	127583004
Hatch	Air Filters	Gross Beta	103	12/7/2020	.03064	pCi/m3	127583001
Hatch	Air Filters	Gross Beta	304	12/7/2020	.0293	pCi/m3	127583005
Hatch	Air Filters	Gross Beta	309	12/7/2020	.03051	pCi/m3	127583006
Hatch	Air Filters	Gross Beta	107	12/7/2020	.03173	pCi/m3	127583002

Hatch	Air Filters	Gross Beta	112	12/7/2020	.0302	pCi/m3	127583003
Hatch	Milk Gamma	Cs-137	GSP	12/8/2020	0	pCi/L	127585001
Hatch	Milk Gamma	Cs-134	GSP	12/8/2020	0	pCi/L	127585001
Hatch	Milk Gamma	I-131	GSP	12/8/2020	0	pCi/L	127585001
Hatch	Milk Gamma	K-40	GSP	12/8/2020	1393.2	pCi/L	127585001
Hatch	Milk Gamma	Be-7	GSP	12/8/2020	0	pCi/L	127585001
Hatch	Milk Gamma	La-140	GSP	12/8/2020	0	pCi/L	127585001
Hatch	Milk Gamma	Ba-140	GSP	12/8/2020	0	pCi/L	127585001
Hatch	Air Filters	Gross Beta	116	12/14/2020	.04942	pCi/m3	127684004
Hatch	Air Filters	Gross Beta	103	12/14/2020	.0491	pCi/m3	127684001
Hatch	Air Filters	Gross Beta	304	12/14/2020	.04268	pCi/m3	127684005
Hatch	Air Filters	Gross Beta	309	12/14/2020	.04313	pCi/m3	127684006
Hatch	Air Filters	Gross Beta	107	12/14/2020	.04836	pCi/m3	127684002
Hatch	Air Filters	Gross Beta	112	12/14/2020	.04353	pCi/m3	127684003
Hatch	Air Filters	Gross Beta	116	12/21/2020	.03172	pCi/m3	127789004
Hatch	Air Filters	Gross Beta	103	12/21/2020	.02512	pCi/m3	127789001
Hatch	Air Filters	Gross Beta	304	12/21/2020	.02848	pCi/m3	127789005
Hatch	Air Filters	Gross Beta	309	12/21/2020	.02871	pCi/m3	127789006
Hatch	Air Filters	Gross Beta	107	12/21/2020	.02708	pCi/m3	127789002
Hatch	Vegetation	I-131	106	12/21/2020	0	pCi/Kg	127791003
Hatch	Vegetation	Cs-134	106	12/21/2020	0	pCi/Kg	127791003
Hatch	Vegetation	Cs-137	106	12/21/2020	33.659	pCi/Kg	127791003
Hatch	Vegetation	Be-7	106	12/21/2020	8614.1	pCi/Kg	127791003
Hatch	Vegetation	K-40	106	12/21/2020	2172.3	pCi/Kg	127791003
Hatch	Air Filters	Gross Beta	112	12/21/2020	.02795	pCi/m3	127789003
Hatch	Vegetation	Cs-137	112	12/21/2020	0	pCi/Kg	127791002
Hatch	Vegetation	Cs-134	112	12/21/2020	0	pCi/Kg	127791002
Hatch	Vegetation	I-131	112	12/21/2020	0	pCi/Kg	127791002
Hatch	Vegetation	K-40	112	12/21/2020	2591.6	pCi/Kg	127791002
Hatch	Vegetation	Be-7	112	12/21/2020	2159.9	pCi/Kg	127791002
Hatch	Vegetation	I-131	416	12/21/2020	0	pCi/Kg	127791001
Hatch	Vegetation	Cs-134	416	12/21/2020	0	pCi/Kg	127791001
Hatch	Vegetation	Cs-137	416	12/21/2020	0	pCi/Kg	127791001
Hatch	Vegetation	Be-7	416	12/21/2020	2074.3	pCi/Kg	127791001
Hatch	Vegetation	K-40	416	12/21/2020	5934.8	pCi/Kg	127791001
Hatch	Milk Gamma	K-40	GSP	12/22/2020	1241.7	pCi/L	127792001
Hatch	Milk Gamma	Be-7	GSP	12/22/2020	0	pCi/L	127792001
Hatch	Milk Gamma	La-140	GSP	12/22/2020	0	pCi/L	127792001
Hatch	Milk Gamma	Ba-140	GSP	12/22/2020	0	pCi/L	127792001
Hatch	Milk Gamma	Cs-137	GSP	12/22/2020	0	pCi/L	127792001
Hatch	Milk Gamma	Cs-134	GSP	12/22/2020	0	pCi/L	127792001
Hatch	Milk Gamma	I-131	GSP	12/22/2020	0	pCi/L	127792001
Hatch	Air Qtr Comp	I-131	116	12/28/2020	0	pCi/m3	128017004
Hatch	Air Qtr Comp	Cs-134	116	12/28/2020	0	pCi/m3	128017004
Hatch	Air Qtr Comp	Cs-137	116	12/28/2020	0	pCi/m3	128017004
Hatch	Air Qtr Comp	Be-7	116	12/28/2020	.07656	pCi/m3	128017004
Hatch	Air Filters	Gross Beta	116	12/28/2020	.02589	pCi/m3	127838004
Hatch	Air Qtr Comp	Be-7	103	12/28/2020	.09531	pCi/m3	128017001
Hatch	Air Qtr Comp	Cs-137	103	12/28/2020	0	pCi/m3	128017001
Hatch	Air Qtr Comp	Cs-134	103	12/28/2020	0	pCi/m3	128017001
Hatch	Air Qtr Comp	I-131	103	12/28/2020	0	pCi/m3	128017001
Hatch	Air Filters	Gross Beta	103	12/28/2020	.02338	pCi/m3	127838001
Hatch	Air Qtr Comp	I-131	304	12/28/2020	0	pCi/m3	128017005
Hatch	Air Qtr Comp	Cs-134	304	12/28/2020	0	pCi/m3	128017005
Hatch	Air Qtr Comp	Cs-137	304	12/28/2020	0	pCi/m3	128017005
Hatch	Air Qtr Comp	Be-7	304	12/28/2020	.07873	pCi/m3	128017005
Hatch	Air Filters	Gross Beta	304	12/28/2020	.02585	pCi/m3	127838005
Hatch	Air Qtr Comp	Be-7	309	12/28/2020	.07935	pCi/m3	128017006
Hatch	Air Filters	Gross Beta	309	12/28/2020	.02245	pCi/m3	127838006
Hatch	Air Qtr Comp	Cs-137	309	12/28/2020	0	pCi/m3	128017006
Hatch	Air Qtr Comp	Cs-134	309	12/28/2020	0	pCi/m3	128017006
Hatch	Air Qtr Comp	I-131	309	12/28/2020	0	pCi/m3	128017006
Hatch	Air Filters	Gross Beta	107	12/28/2020	.02314	pCi/m3	127838002
Hatch	Air Qtr Comp	Be-7	107	12/28/2020	.08121	pCi/m3	128017002
Hatch	Air Qtr Comp	Cs-137	107	12/28/2020	0	pCi/m3	128017002
Hatch	Air Qtr Comp	Cs-134	107	12/28/2020	0	pCi/m3	128017002
Hatch	Air Qtr Comp	I-131	107	12/28/2020	0	pCi/m3	128017002
Hatch	Air Qtr Comp	Cs-137	112	12/28/2020	0	pCi/m3	128017003
Hatch	Air Qtr Comp	Cs-134	112	12/28/2020	0	pCi/m3	128017003
Hatch	Air Qtr Comp	I-131	112	12/28/2020	0	pCi/m3	128017003
Hatch	Air Filters	Gross Beta	112	12/28/2020	.02222	pCi/m3	127838003
Hatch	Air Qtr Comp	Be-7	112	12/28/2020	.07739	pCi/m3	128017003
Hatch	River Water	Nb-95	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	I-131	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Cs-134	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Cs-137	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Ba-140	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	La-140	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Be-7	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	K-40	170	12/29/2020	0	pCi/L	127824001
Hatch	H-3 Water	Tritium	170	12/29/2020	145	pCi/L	128364001
Hatch	River Water	Mn-54	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Fe-59	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Co-58	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Co-60	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Zn-65	170	12/29/2020	0	pCi/L	127824001
Hatch	River Water	Zr-95	170	12/29/2020	0	pCi/L	127824001

Hatch	River Water	Co-60	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Zn-65	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Zr-95	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Nb-95	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	I-131	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Be-7	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	K-40	172	12/29/2020	97.363	pCi/L	127824002
Hatch	River Water	Cs-134	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Cs-137	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Ba-140	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	La-140	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Mn-54	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Fe-59	172	12/29/2020	0	pCi/L	127824002
Hatch	River Water	Co-58	172	12/29/2020	0	pCi/L	127824002
Hatch	H-3 Water	Tritium	172	12/29/2020	0	pCi/L	128364002

Edwin I. Hatch Nuclear Plant – Units 1 & 2
Joseph M. Farley Nuclear Plant – Units 1 & 2
Vogtle Electric Generating Plant – Units 1 & 2
Annual Radiological Environmental Operating Reports for 2020

Enclosure 2

Farley Annual Radiological Environmental Operating Report for 2020

JOSEPH M. FARLEY NUCLEAR PLANT
2020 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Southern Nuclear

TABLE OF CONTENTS

Tables

Figures

Appendix A – Maps

Appendix B – Errata

LIST OF ACRONYMS

ADEM	Alabama Department of Environmental Management
APC	Alabama Power Company
GA EPD	State of Georgia Environmental Protection Division
FNP	Joseph M. Farley Nuclear Plant
GPCEL	Georgia Power Company Environmental Laboratory
ICP	Interlaboratory Comparison Program
MDC	Minimum Detectable Concentration
MDD	Minimum Detectable Difference
MWe	MegaWatts Thermal
NA	Not Applicable
NDM	No Detectable Measurement(s)
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
OSL	Optically Stimulated Luminescence
PWR	Pressurized Water Reactor
REMP	Radiological Environmental Monitoring Program
RL	Reporting Level
RM	River Mile
SNC	Southern Nuclear Operating Company
TLD	Thermoluminescent Dosimeter
TS	Technical Specification

1 INTRODUCTION

The Radiological Environmental Monitoring Program (REMP) was conducted in accordance with Chapter 4 of the Offsite Dose Calculation Manual (ODCM). The REMP activities for 2020 are reported herein in accordance with Technical Specification (TS) Section 5.6.2 and ODCM Section 7.1.

The objectives of the REMP were to:

1) Determine the levels of radiation and the concentrations of radioactivity in the environs and;
2) Assess the radiological impact (if any) to the environment due to the operation of the Joseph M. Farley Nuclear Plant (FNP).

The assessments included comparisons between results of analyses of samples obtained at locations where radiological levels were not expected to be affected by plant operation (control stations), areas of higher population (community stations), and at locations where radiological levels were more likely to be affected by plant operation (indicator stations), as well as comparisons between preoperational and operational sample results.

FNP is owned by Alabama Power Company (APC) and operated by Southern Nuclear Operating Company (SNC). The plant is located in Houston County, Alabama approximately fifteen miles east of Dothan, Alabama on the west bank of the Chattahoochee River. Unit 1, a Westinghouse Electric Corporation Pressurized Water Reactor (PWR) with a licensed core thermal power output of 2775 MegaWatts thermal (MWt), achieved initial criticality on August 9, 1977, and was declared "commercial" on December 1, 1977. Unit 2, also a 2775 MWt Westinghouse PWR, achieved initial criticality on May 8, 1981, and was declared "commercial" on July 30, 1981.

The preoperational stage of the REMP began with initial sample collections in January of 1975. The transition from the preoperational to the operational stage of the REMP was marked by Unit 1 initial criticality.

- A description of the REMP is provided in Section 2 of this report
- Section 3 provides a summary of the results, an assessment of any radiological impacts to the environment, and the results from the Interlaboratory Comparison
- A summary of the land use census and the river survey are included in Section 4
- Conclusions are included in Section 5

2 REMP DESCRIPTION

The following section provides a description of the sampling and laboratory protocols associated with the REMP. Table 2-1 provides a summary of the sample types to be collected and the analyses to be performed in order to monitor the airborne, direct radiation, waterborne and ingestion pathways, and summarizes the collection and analysis frequencies (in accordance with ODCM Section 4.2). Table 2-2 provides specific information regarding the station locations, their proximity to the plant, and exposure pathways. Additionally, Appendix A of this report provides Maps A-1 through A-4 that depict the georeferenced location of sampling stations. Appendix B contains any Errata from previous reports, no Errata was identified for inclusion in this 2020 report.

Plant personnel collected most samples, while others were collected by Alabama Power Company Environmental Affairs field team. The Georgia Power Environmental Laboratory (GPCEL) analyzed all REMP samples.

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or	Number of Representative Samples and Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Direct Radiation	40 routine monitoring stations with two or more dosimeters placed as follows: An inner ring of stations, one in each compass sector in the general area of the site boundary. An outer ring of stations, one in each compass sector at approximately 5 miles from the site; and Special interest areas, such as population centers, nearby recreation areas, and control stations	Quarterly	Gamma dose/Quarterly
Airborne Radioiodine and Particulates	Samples from eight locations: Three locations close to the site boundary in different sectors. Three community stations; within 8 miles Two control locations near population centers, approximately 15 and 18 miles away	Continuous sampler operation with sample collection weekly	Particulate sampler: Analyze for gross beta radioactivity ≥ 24 hours following filter change / Weekly. Perform gamma isotopic analysis on each sample when gross beta activity is > 10 times the yearly mean of control samples. Perform gamma isotopic analysis on composite sample (by location)/Quarterly. Radioiodine canister: I-131 analysis/Weekly (One community station)
Waterborne			
Surface[3]	One sample upriver One sample downriver	Composite sample over one-month period[4]	Gamma isotopic analysis[2]/Monthly Composite for tritium analysis/Quarterly

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or	Number of Representative Samples and Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Groundwater	Off-site monitoring includes one indicator station and one control station See Table 3-8 and Map A-4 in Appendix A for on-site well locations. These are part of the GWPP (NEI 07-07).	Quarterly Frequency based on GWPP	Off-site wells are analyzed only for Gamma Isotopic, I-131, & tritium Tritium, gamma isotopic, and field parameters of each sample; hard-to-detects based on tritium and gamma results
Shoreline Sediment[7]	One sample from downriver area with existing or potential recreational value One sample from upriver area with existing or potential recreational value	Semiannually	Gamma isotopic analysis[2]/Semiannually
Ingestion			
Milk[5]	Two samples from milking animals at control locations at about 10 miles or more	Bimonthly	Gamma isotopic analysis[2,6]/Bimonthly
Fish[8]	One bottom feeding fish and one game fish both upstream and downstream	Semiannually During spring/fall spawning season	Gamma isotopic analysis[2] on edible portions/ Semiannually Gamma isotopic analysis[2] on edible portions/ Annually.
Grass or Leafy Vegetation	One sample from two onsite locations near the site boundary in different sectors One sample from a control location at an approximate distance of 18 miles	Monthly during growing season	Gamma isotopic analysis[2,6]/Monthly

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or	Number of Representative Samples and Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Notes: [1]Airborne particulate sample filters were analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples was greater than 10 times the yearly mean of control samples, gamma isotopic analysis was performed on the individual samples. [2]Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility. [3]Upriver sample was taken at a distance beyond significant influence of the discharge. Downriver samples were taken beyond but near the mixing zone. [4]Composite sample aliquots were collected at time intervals that were very short (e.g., hourly) relative to the compositing period (e.g., monthly) to ensure obtaining a representative sample. [5]A milking animal is a cow or goat producing milk for human consumption, no milk animals were found within five miles of the plant, a control sample not collected since 2009. [6]If the gamma isotopic analysis is not sensitive enough to meet the Minimum Detectable Concentration (MDC) for I-131, a separate analysis for I-131 may be performed. [7]These collections were normally made at river mile 41.3 for the indicator station and river mile 47.8 for the control station; however, due to river bottom sediment shifting caused by high flows, dredging, etc., collections may be made from river mile 40 to 42 for the indicator station and from river mile 47 to 49 for the control station. [8] Since several miles of river water may be needed to obtain adequate fish samples, these river mile positions represent the approximate locations from which the fish are taken. Collections for the indicator station should be from river mile 37.5 to 42.5 and for the control station from river mile 47 to 52.			

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
0501	Indicator	River Intake Structure (Spare)	ESE	0.8	Airborne
0701	Indicator	South-southeast Perimeter	SSE	1.0	Airborne
1101	Indicator	Plant Entrance	WSW	0.9	Airborne
1601	Indicator	North Perimeter	N	0.8	Airborne
0215	Control	Blakely GA	NE	15	Airborne, Direct
0718[2]	Control	Neals Landing, FL	SSE	18	Airborne, Direct
1218	Control	Dothan, AL	W	18	Airborne, Direct, Vegetation
0703	Community	GA Pacific Paper Co.	SSE	3	Airborne, Direct
1108	Community	Ashford, AL	WSW	8	Airborne
1605	Community	Columbia, AL	N	5	Airborne, Direct
0101	Indicator	Plant Perimeter	NNE	0.9	Direct
0201	Indicator	Plant Perimeter	NE	1.0	Direct
0301	Indicator	Plant Perimeter	ENE	0.9	Direct
0401	Indicator	Plant Perimeter	E	0.8	Direct
0501	Indicator	Plant Perimeter	ESE	0.8	Direct
0601	Indicator	Plant Perimeter	SE	1.1	Direct
0701	Indicator	Plant Perimeter	SSE	1.0	Direct, Vegetation
0801	Indicator	Plant Perimeter	S	1.0	Direct
0901	Indicator	Plant Perimeter	SSW	1.0	Direct
1001	Indicator	Plant Perimeter	SW	0.9	Direct
1101	Indicator	Plant Perimeter	WSW	0.9	Direct
1201	Indicator	Plant Perimeter	W	0.8	Direct
1301	Indicator	Plant Perimeter	WNW	0.8	Direct
1401	Indicator	Plant Perimeter	NW	1.1	Direct
1501	Indicator	Plant Perimeter	NNW	0.9	Direct
1601	Indicator	Plant Perimeter	N	0.8	Direct, Vegetation
1215	Control	Dothan, AL	W	15	Direct
1311	Control	Webb, AL	W	11	Direct
1612	Control	Haleburg, AL	WNW	12	Direct
1001	Community	Whatley Residence	SW	12	Direct
1108	Community	Ashford, AL	WSW	8.0	Direct
WRI	Indicator	Downstream of plant discharge, approximately RM 40	S	3.0	River Water
WRB	Control	Upstream of plant intake, approximately RM 47	NNE	3.0	River Water
WGI-07	Indicator	Paper Mill Well	SSE	4.0	Groundwater
WGB-10	Control	Whatley Residence	SW	1.2	Groundwater

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
RSI	Indicator	Downstream of plant discharge at Smith's Bend (RM 41)	S	4.0	Sediment
RSB	Control	Upstream of plant intake at Andrews Lock and Dam (RM 48)	N	4.0	Sediment
FGI & FGB	Indicator	Downstream of plant discharge at Smith's Bend (RM 41)	S	4.0	Fish
FGB & FBB	Control	Upstream of plant intake at Andrews Lock and Dam (RM 48)	N	4.0	Fish
0104	Community	Early Co., GA	NNE	4.0	Direct
0204	Community	Early Co., GA	NE	4.0	Direct
0304	Community	Early Co., GA	ENE	4.0	Direct
0405	Community	Early Co., GA	E	5.0	Direct
0505	Community	Early Co., GA	ESE	5.0	Direct
0605	Community	Early Co., GA	SE	5.0	Direct
0805	Community	Houston Co., AL	S	5.0	Direct
0904	Community	Houston Co., AL	SSW	4.0	Direct
1005	Community	Houston Co., AL	SW	5.0	Direct
1104	Community	Houston Co., AL	WSW	4.0	Direct
1204	Community	Houston Co., AL	W	4.0	Direct
1304	Community	Houston Co., AL	WNW	4.0	Direct
1404	Community	Houston Co., AL	NW	4.0	Direct
1504	Community	Houston Co., AL	NNW	4.0	Direct

Notes:
[1]Direction and distance were determined as the mid-point between the Unit 1 and Unit 2 vent stacks.
[2] Spare, per the ODCM

3 RESULTS SUMMARY

Included in this section are statistical evaluations of the laboratory results, comparison of the results by media, and a summary of the anomalies and deviations. Overall, 1,719 analyses were performed across nine exposure pathways. Tables and figures are provided throughout this section to provide an enhanced presentation of the information.

In recent history, man-made nuclides have been released into the environment and have resulted in widespread distribution of radionuclides across the globe. For example, atmospheric nuclear weapons tests from the mid-1940s through 1980 distributed man-made nuclides around the world. The most recent atmospheric tests in the 1970s and in 1980 have had a significant impact upon the radiological concentrations found in the environment prior to and during pre-operation, and through early operation. Some long-lived radionuclides, such as Cs-137, continue to be detected and a portion of these detections are believed to be attributed to the nuclear weapons tests.

Additionally, data associated with certain radiological effects created by off-site events have been removed from the historical evaluation, this includes: the nuclear atmospheric weapon test in the fall of 1980, the Chernobyl incident in the spring of 1986 and the Fukushima accident in the spring of 2011.

As indicated in ODCM 7.1.2.1, the results for naturally occurring radionuclides that are also found in plant effluents must be reported along with man-made radionuclides. Historically, the radionuclide Be-7, which occurs abundantly in nature, is often detected in REMP samples, and occasionally detected in the plant's liquid and gaseous effluents. In 2020, Be-7 was not detected in any plant effluents and therefore it was not included in this report. When it is detected in plant effluents and REMP samples, it is also included in the REMP results. The Be-7 detected in select REMP samples likely represents naturally occurring and/or background conditions.

As part of the data evaluation process, SNC considered the impact of the non-plant associated nuclides along with a statistical evaluation of the REMP data. The statistical evaluations included within this report include the Minimum Detectable Concentration (MDC), the Minimum Detectable Difference (MDD), and Chauvenet's Criterion as described below.

Minimum Detectable Concentration

The minimum detectable concentration is defined as an estimate of the true concentration of an analyte required to give a specified high probability that the measured response will be greater than the critical value.

Minimum Detectable Difference

The Minimum Detectable Difference (MDD) compares the lowest significant difference (between the means) of a control station versus an indicator or a community station, that can be determined statistically at the 99% Confidence Level (CL). A difference in mean values which was less than the MDD was considered statistically indiscernible. The MDD is used to evaluate the statistical proximity between the indicator/community and control sample results, but generally, any results that are less than the MDC and/or Reporting Levels (RL) are considered to have minimal impact on the surrounding environs.

Chauvenet's Criterion

All results were tested for conformance with Chauvenet's Criterion (G. D. Chase and J. L. Rabinowitz, Principles of Radioisotope Methodology, Burgess Publishing Company, 1962, pages 87-90) to identify values which differed from the mean of a set by a statistically significant amount. Identified outliers were investigated to determine the reason(s) for the difference. If equipment malfunction or other valid physical reasons were identified as causing the variation, the anomalous result was excluded from the data set as non-representative.

Table 3-1 summarizes and evaluates the annual results for the indicator stations against the control and community stations (where applicable) and as appropriate, results were evaluated against the MDCs (listed in Table 3-1) and RLs (listed in Table 3-2). The required MDCs were achieved during laboratory sample analysis. The 2020 results were compared with previous results, including those obtained during pre-operation. No data points were excluded for violating Chauvenet's Criterion.

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Locations Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
Airborne Particulates (fCi/m3)	Gross Beta 415	10	16.1 2.6 to 37.3 (155/155)	GA Pacific Paper Co. (SSE-3 mi) community	19.7 6.5 to 31.6 (52/52)	17.1 6.5 to 54.1 (157/156)	14.4 4.5 to 34.1 (104/104)
	Gamma Isotopic						
	Be-7						
	I-131 32	70	NDM(c)		NDM	NDM	NDM
	Cs-134 32	50	NDM		NDM	NDM	NDM
	Cs-137 32	60	NDM		NDM	NDM	NDM
Airborne Radioiodine(fCi/m3)	I-131 311	70	NDM		NDM	NDM	NDM
Direct Radiation (mR/91 days)	Gamma Dose 160		17.2 13 to 26.6 (64/64)	Plant Perimeter, E 0.8 mi Indicator	25.83 25.2 to 26.6 (4/4)	14.4 11.4 to 17.4 (72/72)	17.3 12.6 to 24.5 (24/24)
Milk (pCi/l)	Gamma Isotopic 0						
	I-131	1					
	Cs-134	15					
	Cs-137	18					
	Ba-140	60					
	La-140	15					
Vegetation (pCi/kg-wet)	Gamma Isotopic 36						

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Locations Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Be-7						
	I-131 36	60	NDM				NDM
	Cs-134 36	60	NDM				NDM
	Cs-137 36	80	NDM	Dothan, AL W 18 mi. Control	69.4 0-35.5 (1/11)		69.4 69.4-69.4 (1/11)
River Water (pCi/l)	Gamma Isotopic 26						
	Mn-54	15	NDM		NDM	NDM	NDM
	Fe-59	30	NDM		NDM	NDM	NDM
	Co-58	15	NDM		NDM	NDM	NDM
	Co-60	15	NDM		NDM	NDM	NDM
	Zn-65	30	NDM		NDM	NDM	NDM
	Zr-95	30	NDM		NDM	NDM	NDM
	Nb-95	15	NDM		NDM	NDM	NDM
	I-131	15	NDM		NDM	NDM	NDM
	Cs-134	15	NDM		NDM	NDM	NDM
	Cs-137	18	NDM		NDM		
	Ba-140	60	NDM		NDM		
	La-140	15	NDM		NDM		
	Tritium 8	3000	96.6 116 to 197 (3/4)	Paper Mill (RM 40) Indicator	96.6 116 to 197 (3/4)		-128.0 0-0 (2/4)
Off-site Groundwater	Gamma Isotopic 8						

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Locations Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Mn-54	15	NDM		NDM		NDM
	Fe-59	30	NDM		NDM		NDM
	Co-58	15	NDM		NDM		NDM
	Co-60	15	NDM		NDM		NDM
	Zn-65	30	NDM		NDM		NDM
	Zr-95	30	NDM		NDM		NDM
	Nb-95	15	NDM		NDM		NDM
	I-131	15	NDM		NDM		NDM
	Cs-134	15	NDM		NDM		NDM
	Cs-137	18	NDM		NDM		NDM
	Ba-140	60	NDM		NDM		NDM
	La-140	15	NDM		NDM		NDM
	Tritium 8	2000	NDM	NDM	NDM		NDM
Bottom Feeding Fish (pCi/kg-wet)	Gamma Isotopic 4						
	Mn-54	130	NDM		NDM		NDM
	Fe-59	260	NDM		NDM		NDM
	Co-58	130	NDM		NDM		NDM
	Co-60	130	NDM		NDM		NDM
	Zn-65	260	NDM		NDM		NDM
	Cs-134	130	NDM		NDM		NDM
	Cs-137	150	NDM		NDM		NDM
Game Fish (pCi/kg-wet)	Gamma Isotopic 4						
	Mn-54	130	NDM		NDM		NDM
	Fe-59	260	NDM		NDM		NDM

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Locations Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Co-58	130	NDM		NDM		NDM
	Co-60	130	NDM		NDM		NDM
	Zn-65	260	NDM		NDM		NDM
	Cs-134	130	NDM		NDM		NDM
	Cs-137	150	NDM	N/A	NDM		NDM
Sediment (pCi/kg-dry)	Gamma Isotopic 4						
	Co-60	70	NDM		NDM		NDM
	Cs-134	150	NDM		NDM		NDM
	Cs-137	180	NDM		NDM		NDM

Notes:
(a)The MDC is defined in ODCM 10.1. Except as noted otherwise, the values listed in this column are the detection capabilities required by ODCM Table 4-3. The values listed in this column are a priori (before the fact) MDCs. In practice, the a posteriori (after the fact) MDCs are generally lower than the values listed.
(b) Mean and range were based upon detectable measurements only. The fraction of all measurements at a specified location that are detectable is placed in parenthesis.
(c) No Detectable Measurement(s) (NDM).
(d) The Georgia Power Company Environmental Laboratory has determined that this value may be routinely attained under normal conditions. No value is provided in ODCM Table 4-3.
(e) Item 3 of ODCM Table 4-1 implies that an I-131 analysis is not required to be performed on water samples when the dose calculated from the consumption of water is less than 1 mrem per year. However, I-131 analyses have been performed on the finished drinking water samples.
(f) "Other" stations, as identified in the "Station Type" column of Table 2-2, are "Community" and/or "Special" stations.

Not Applicable (NA) (sample not required)

Table 3-2. Reporting Levels (RL)

Analysis	Water (pCi/l)	Airborne Particulate or Gases (fCi/m3)	Fish (pCi/kg-wet)	Milk (pCi/l)	Grass or Leafy 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-95	400				
Nb-95	700				
I-131	2[b]	900		3	100
Cs-134	30	10,000	1,000	60	1,000
Cs-137	50	20,000	2,000	70	2,000
Ba-140	200			300	
La-140	100			400	

[a] This is the 40 CFR 141 value for drinking water samples. If no drinking water pathway exists, a value of 30,000 may be used.
[b] If no drinking water pathway exists, a value of 20 pCi/l may be used.

In accordance with ODCM 4.1.1.2.1, deviations from the required sampling schedule were permitted, if samples were unobtainable due to hazardous conditions, unavailability, inclement weather, equipment malfunction or other just reasons. Deviations from conducting the REMP sampling (as described in Table 2-1) are summarized in Table 3-3 along with their causes and resolutions.

Table 3-3. Anomalies and Deviations from Radiological Environmental Monitoring Program

Collection Period	Affected Samples	Anomaly (A)* or Deviation (D)**	Cause	Resolution
02-11-20 to 03-10-20	Surface water sample Control station (WRB) Andrews Lock & Dam Upper Pier (Chattahoochee River Mile - 47)	(A) Non-representative sample of surface water gamma isotopic and tritium	Lost 78 monthly sample aliquots due to removal of composite sampler in anticipation of flooding conditions on the Chattahoochee River.	Composite sampler returned to service at start of next collection period with return of normal river levels.
05-19-20 to 05-26-20	Air sample PI-1601/II-1601 0.8 mile - N	(A) Non-representative sample of airborne particulate and radioiodine	Lost 40.1 hours of weekly sample collection due to sampling equipment having tripped off during storm event.	Station returned to normal operation after power was restored to sampling equipment.
07-21-20 to 07-29-20	Air sample PI-0701/II-0701 1.0 mile - SSE	(A) Non-representative sample of airborne particulate and radioiodine	Lost 48.5 hours of weekly sample collection due to loss of station power from ongoing plant maintenance activities.	Station returned to normal operation after power was restored to sampling equipment.
08-18-20 to 08-25-20	Air sample PI-1101/II-1101 0.9 mile - WSW	(D) Non-representative sample of airborne particulate and radioiodine	Lost 167.5 hours of weekly sample collection due to loss of station power from ongoing plant maintenance activities.	Station returned to normal operation after power was restored to sampling equipment.
08-25-20 to 09-22-20	Surface water sample Control station (WRB) Andrews Lock & Dam Upper Pier (Chattahoochee River Mile - 47)	(A) Non-representative sample of surface water gamma isotopic and tritium	Lost 82 monthly sample aliquots due to removal of composite sampler in anticipation of flooding conditions on the Chattahoochee River.	Composite sampler returned to service at start of next collection period with return of normal river levels.
09-08-20 to 09-15-20	Air sample PC-0703/IC-0703 3.0 miles - SSE	(A) Non-representative sample of airborne particulate and radioiodine	Lost 112 hours of weekly sample collection due to sampling equipment having tripped off during storm event.	Station returned to normal operation after power was restored to sampling equipment.
09-15-20 to 09-22-20	Air sample PI-1601/II-1601 0.8 mile - N	(A) Non-representative sample of airborne	Lost 111 hours of weekly sample collection due to inoperable electrical	Station returned to normal operation after power was restored to sampling equipment.

		particulate and radioiodine	disconnect supplying power to station.	
09-22-20 to 09-29-20	Air sample PI-1601/II-1601 0.8 mile - N	(A) Non-representative sample of airborne particulate and radioiodine	Lost 74.7 hours of weekly sample collection during repairs to the electrical disconnect supplying power to station.	Station returned to normal operation after power was restored to sampling equipment.
10-13-20 to 10-20-20	Air sample PI-1601/II-1601 0.8 mile - N	(A) Non-representative sample of airborne particulate and radioiodine	Lost 82.3 hours of weekly sample collection due to failed transformer supplying power to station.	Station returned to normal operation after power was restored to sampling equipment.
10-20-20 to 10-27-20	Air sample PI-1601/II-1601 0.8 mile - N	(A) Non-representative sample of airborne particulate and radioiodine	Lost 72.3 hours of weekly sample collection during replacement of transformer supplying power to station.	Station returned to normal operation after power was restored to sampling equipment.
11-10-20 to 11-17-20	Air sample PB-1218 18 miles - W	(A) Non-representative sample of airborne particulate	Particulate sample filter damaged during maintenance activities at station.	New particulate filter installed at start of next weekly sample period.
* An anomaly is considered a non-standard sample that still meets sampling criteria outlined in SNC and Georgia Power Labs procedures. ** A deviation is a sample result that is not recorded due to not meeting scheduling and/or procedural requirements as outlined by SNC and Georgia Power Labs				

3.1 Airborne Particulates

As specified in Table 2-1, airborne particulate filters were collected weekly at three indicator stations (Stations 0701, 1101, and 1601) which encircle the plant at the site periphery, at three community station (0703, 1108, and 1605) approximately three to eight miles from the plant, and at two control stations (0215 and 1218) which range from approximately 15 to 18 miles from the plant. At each sampling location containing a filter and cartridge series, air was continuously drawn through a glass fiber filter to retain airborne particulate. An activated charcoal canister was also placed in series with the particulate filter in order to adsorb radioiodine at community station 0703 in Cedar Springs, GA for comparison purposes with the Georgia Environmental Protection Division (EPD).

3.1.1 Gross Beta

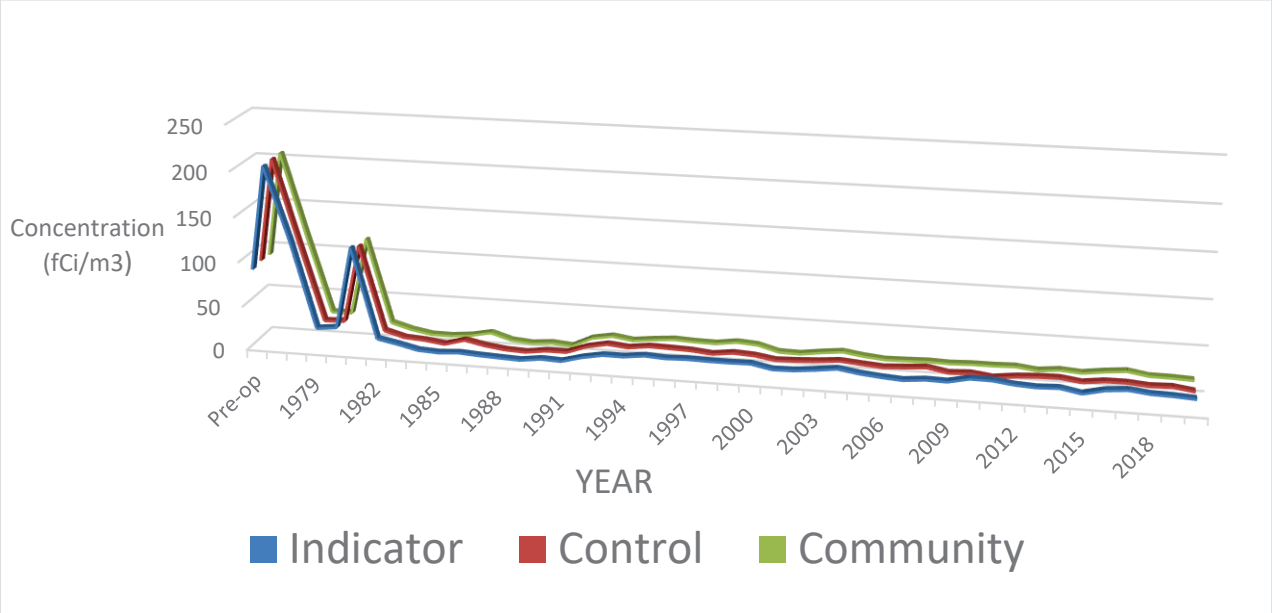
As provided in Table 3-1, the 2020 annual average weekly gross beta activity was 16.1 fCi/m3 for the indicator stations. It was greater than the control station average of 14.4 fCi/m3 for the year. The difference was less than the calculated MDD of 1.7 fCi/L, so the result was not statistically discernible. The 2020 annual average weekly gross beta activity at the community stations was 17.1 fCi/m3 which was 2.7. fCi/m3 more than the control station average. The difference was more than the calculated MDD of 2.3 fCi/L, so the result was statistically discernible, however based on the relationship between the indicator and the control stations this statistical difference is not considered related to plant operations

Average Air Gross Beta historical data (Table 3-4) is graphed to show trends associated with a prevalent exposure pathway (Figure 3-1). In general, there was a close agreement between the results for the indicator, control, and community stations. This close agreement supports the position that the plant was not contributing significantly to the gross beta concentrations in air.

Table 3-4. Average Weekly Gross Beta Air Concentration

Period	Indicator (fCi/m3)	Control (fCi/m3)	Community (fCi/m3)		Period	Indicator (fCi/m3)	Control (fCi/m3)	Community (fCi/m3)
Pre-op	90	92	91		1999	20.5	22.1	25.2
1977	205	206	206		2000	20.9	20.8	23.6
1978	125	115	115		2001	16.3	17.2	17.3
1979	27.3	27.3	28.7		2002	16.8	18	16.8
1980	29.7	28.1	29.2		2003	19.1	19.3	19.9
1981	121	115	115		2004	22.0	21.3	22.4
1982	20.0	20.4	21.0		2005	18.4	19.3	19.0
1983	15.5	14.1	14.5		2006	16.1	17.5	16.8
1984	10.2	12.6	10.5		2007	14.5	18.9	17.3
1985	9.0	9.6	10.3		2008	16.7	20.6	18.0
1986	10.5	15.8	12.5		2009	16.2	16.3	17.3
1987	9.0	11.0	17.0		2010	21.2	17.5	18.2
1988	8	8	10		2011	20.9	14.5	18.2
1989	7	7	8		2012	18.0	17.3	18.9
1990	10	10	10		2013	16.7	18.7	16.1
1991	9	10	8		2014	17.7	19.1	18.5
1992	15	17.9	18.5		2015	13.4	15.9	16.8
1993	19.1	22.3	22.4		2016	18.7	18.8	19.9
1994	19.0	20.0	19.0		2017	20.7	18.9	22.1
1995	21.7	22.9	21.6		2018	18.1	16.9	18.3
1996	20.3	22.3	23.5		2019	17.5	17.7	18.1
1997	21.1	21.6	22.4		2020	16.1	14.4	17.1
1998	20.6	19.3	22.0					

Figure 3-1. Average Weekly Gross Beta Air Concentration



3.1.2 Gamma Particulates and Airborne Radioiodine

During 2020, no man-made radionuclides were detected from the gamma isotopic analysis of the quarterly composites of the air particulate filters other than Be-7, as discussed previously, Be-7 is a naturally occurring isotope and was not released from plant operations and is therefore not further evaluated here.

I-131 was not detected in the air cartridges at either the indicator or control stations in 2020. Historically, gamma isotopes have been detected as a result of offsite events. During pre-operation, Cs-137 was occasionally detected.

3.2 Direct Radiation

In 2020, direct (external) radiation was measured with Optically Stimulated Luminescent (OSLD) dosimeters by placing two OSLD badges at each station. The gamma dose at each station was reported as the average reading of the two badges. The badges were analyzed on a quarterly basis. An inspection was performed near mid-quarter for offsite badges to ensure that the badges were on-station and to replace any missing or damaged badges.

Two direct radiation stations were established in each of the 16 compass sectors, to form two concentric rings. The inner ring (Stations 0101 through 1601) was located near the plant perimeter as shown in Map A-1 in Appendix A and the outer ring (Stations 0104 through 1605) was located at approximately 5 miles (varying distances) from the plant as shown in Map A-2 in Appendix A. The 16 stations forming the inner ring were designated as the indicator stations. The two-ring configuration of stations was established in accordance with NRC Branch Technical Position “An Acceptable Radiological Environmental Monitoring Program”, Revision 1, November 1979. The six control stations (Stations 0215, 0718, 1215, 1218, 1311 and 1612) were located at varying distances greater than 10 miles from the plant as shown in Map A-3 in Appendix A. Monitored special interest areas consist of the following: Station 1001 which was the nearest residence to the plant, and Station 1108 in the town of Ashford, Alabama. The mean and range values presented in the “Other” column in Table 3-1 includes the outer ring stations (stations 0104 through 1605) as well as stations 1001 and 1108.

As provided in Table 3-1, the 2020 average quarterly exposure at the indicator stations (inner ring) was 17.2 mR with a range of 13.0 to 26.6 mR. The 2020 average quarterly exposure at the control station average was 17.3 mR with a range 12.5 mR to 24.5mR. The MDD was not calculated because the control average was higher than the indicator average. These values are consistent with historical readings, where the indicator and control are closely correlated.

The quarterly exposures acquired at the community/other (outer ring) stations during 2020 ranged from 11.4 -17.4 mR with an average of 14.4 mR which was 2.9 mR less than that of the control stations (17.3 mR). The MDD does not apply since the average is less than that of the control average.

Average Direct Radiation historical data (Table 3-5) is graphed to show trends associated with a prevalent exposure pathway (Figure 3-2). The decrease between 1991 and 1992 values was attributed to a change in Thermoluminescent Dosimeters (TLDs) from Teledyne to Panasonic. It should be noted however that the differences between indicator and control and outer ring values did not change. The increase shown in 2010 reflected issues with the aging Panasonic TLD reader. The close agreement between the station groups has supported the position that the plant was not contributing significantly to direct radiation in the environment.

Figure 3-3 provides a more detailed view of the 2020 values. The values for the indicator and special interest areas detailed below indicate that Plant Farley did not significantly contribute to direct radiation at those areas.

Table 3-5. Average Quarterly Exposure from Direct Radiation (Historical)

Period	Indicator (mR)	Control (mR)	Outer Ring (mR)		Period	Indicator (mR)	Control (mR)	Outer Ring (mR)
Pre-op	12.6	11.4	10.1		1999	14.7	13.4	12.6
1977	10.6	12.2	10.6		2000	15.5	14.1	13.5
1978	15	13.5	12		2001	14.9	13.4	12.7
1979	20.3	18.7	15.2		2002	14.1	12.6	11.9
1980	21.9	21.6	18.5		2003	15.2	13.6	12.9
1981	16.5	14.9	14.5		2004	14.3	12.9	12.1
1982	15.5	14.7	13		2005	14.7	13.4	12.5
1983	20.2	20.2	17.4		2006	15.2	13.6	12.9
1984	18.3	16.9	15.3		2007	14.6	13.3	12.5
1985	21.9	22	18		2008	15.0	13.7	12.9
1986	17.8	17.7	15.1		2009	15.2	13.6	12.8
1987	20.8	20.0	18.0		2010	17.8	16.7	15.5
1988	21.5	19.9	18.5		2011	21.0	19.9	18.4
1989	18.0	16.2	15.3		2012	17.4	15.8	14.7
1990	18.9	16.4	15.8		2013	16.5	15.1	13.8
1991	18.4	16.1	16.1		2014	16.7	15.7	14.1
1992	16.1	13.6	13.5		2015	17.1	15.6	14.4
1993	17.4	15.9	15.6		2016	16.3	15.2	13.9
1994	15.0	13.0	12.0		2017	16.9	16.9	14.2
1995	14.0	12.5	11.8		2018	16.3	16.7	13.7
1996	14.2	12.7	11.9		2019	15.2	15.2	12.8
1997	15.3	13.9	11.9		2020	17.2	17.3	14.4
1998	16.2	14.6	13.9					

Figure 3-2. Average Quarterly Exposure from Direct Radiation

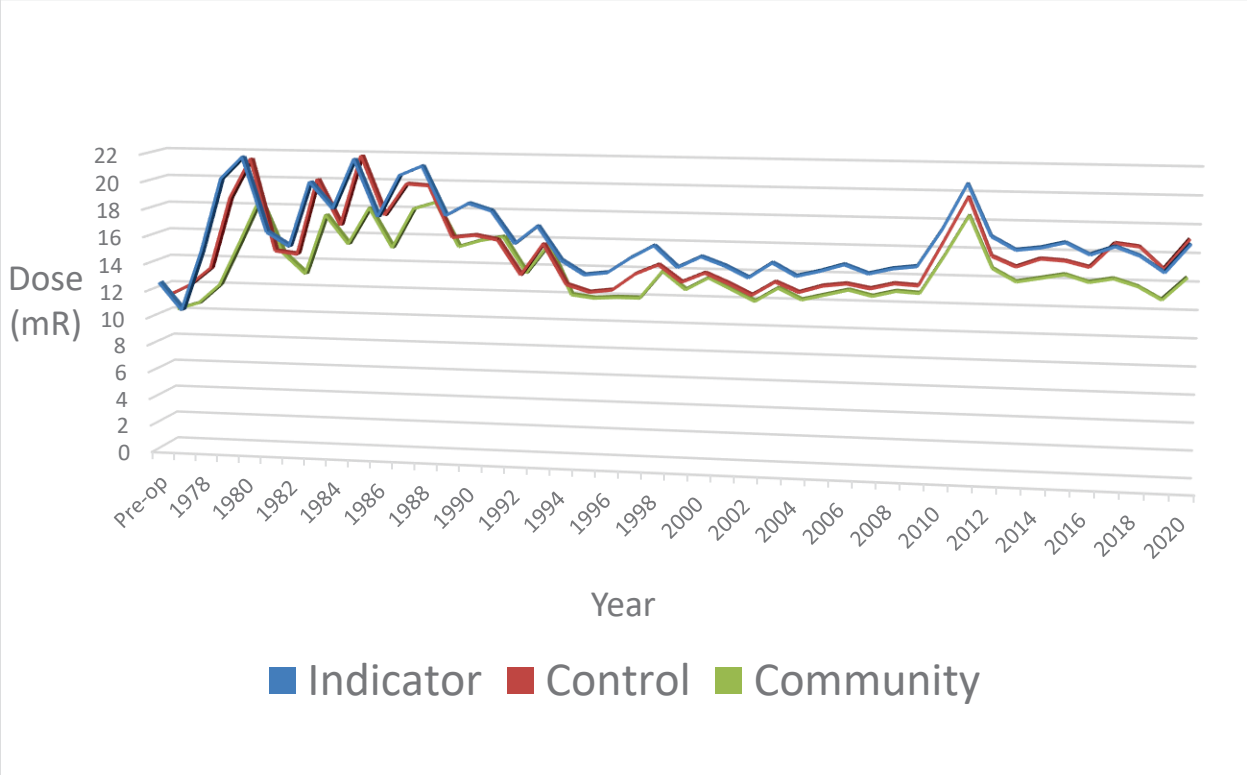
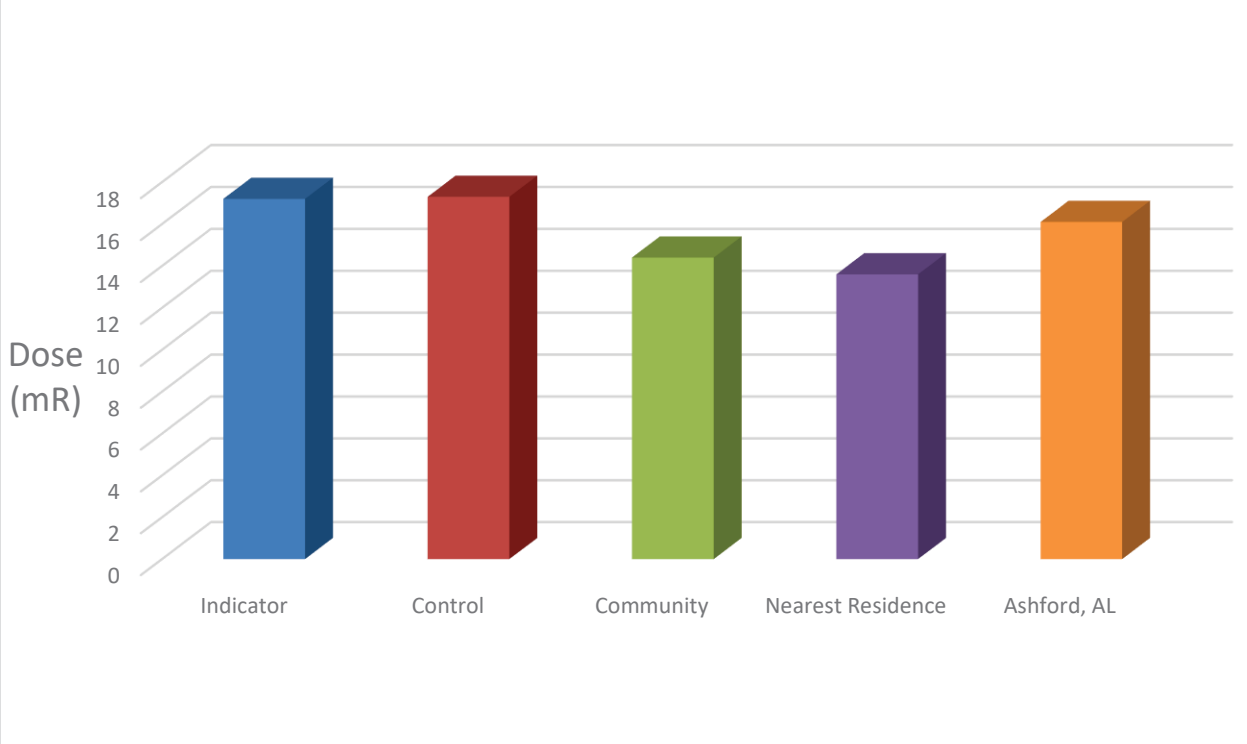


Figure 3-3. 2020 Average Exposure from Direct Radiation in Select Locations



3.3 Biological Media

Cs-137 was the only radionuclide detected in one of the three biological media. As indicated in Figure 3-4, the Cs-137 activity levels were below the respective MDCs and well below that of the respective RLs for each sample media for both the indicator and control stations.

3.3.1 Milk

Milk samples had been collected biweekly from a control location until the end of 2009 when the dairy would no longer provide samples. No indicator station (a location within five miles of the plant) has been available for milk sampling since 1987. As discussed in Section 4.0, no milk animals were found within five miles of the plant during the 2020 land use census and no milk sampling was performed during the reporting year.

3.3.2 Vegetation

In accordance with Table 2-1 and 2-2, forage (vegetation) samples were collected every four weeks at two indicator stations on the plant perimeter, and at one control station located approximately 18 miles west of the plant in Dothan, Alabama. Historically, the man-made radionuclide Cs-137 were periodically identified in vegetation samples and was generally attributed to offsite sources (such as weapons testing, Chernobyl, and Fukushima).

During 2020, Cs-137 was identified in one sample at the control station, FB-1218-M1 (Dothan, Alabama). The control station average (and single value) was 69.4 pCi/L (no range, with only one positive). This average was based only on the detectable values; all other results were below detection limits. No environmental concerns were noted since the results were well below the RL of 2,000 pCi/L for Cs-137 in vegetation.

Be-7 was also detected in vegetation during 2020, but was not released in plant effluents throughout the year. This further illustrates the abundance of naturally-occurring Be-7 present in the surrounding environment.

3.3.3 Fish

In accordance with Table 2-1, two types of fish (bottom-feeding and game) were collected on a semiannually basis from the Chattahoochee River at a control station several miles upstream of the plant intake structure and at an indicator station a few miles downstream of the plant discharge structure. These locations are shown in Map A-3 in Appendix A.

3.3.3.1 Bottom Feeding Species

No radionuclides were identified from the control or indicator samples in 2020.

3.3.3.2 Game Species

No radionuclides were identified from the control or indicator samples in 2020.

3.3.4 Biological Media Summary

There were no statistical differences, trends, or anomalies associated with the 2020 biological media samples when compared to historical data. Cs-137 was occasionally present in biological media, as with previous sample results; however, the detections were consistently below both the MDC or RL. No other reportable radionuclides were found from the gamma isotopic analysis of biological media samples in 2020.

3.4 Off-site Groundwater

There were no true indicator sources of offsite ground water near Plant Farley. A well, located approximately four miles south-southeast of the plant on the east bank of the Chattahoochee River, serves Georgia Pacific Paper Company as a source of potable water. This well was designated as the indicator station. A deep well located about 1.2 miles southwest of the plant supplies water to the Whatley residence. This well was designated as the control station. Samples were collected quarterly and analyzed for gamma isotopic, I-131 and tritium as specified in Table 2-1. In 2020, there were no radionuclides detected in any of the ground water samples from either sample station, apart from tritium.

Since 2004, tritium has been identified at very low concentrations (near the instrument detection level) and close to environmental background levels in off-site groundwater. In 2020, tritium was not detected in indicator station WGI-07 or the control station.

3.5 River (Surface) Water

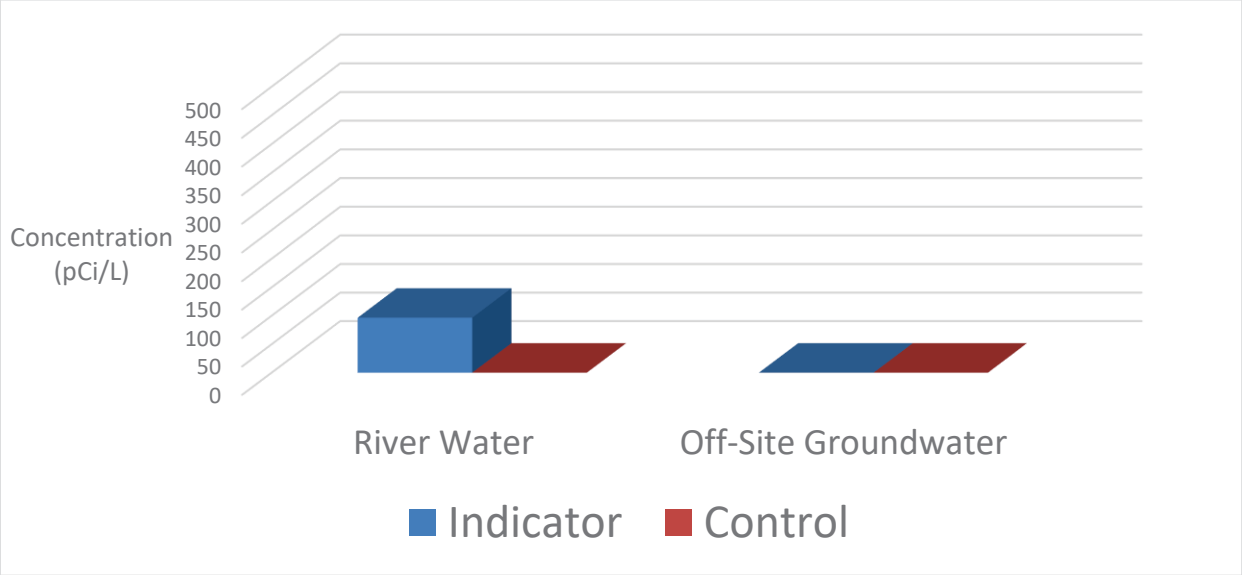
Composite river water samples were collected monthly at one upstream control location and one downstream indicator location (shown on Map A-2). The details of the sampling protocols are outlined in Tables 2-1 and Table 2-2. A gamma isotopic analysis was conducted on each monthly sample. The monthly aliquots were combined in the lab to form quarterly composite samples in order to be analyzed for tritium.

As provided in Table 3-1, there were no positive results during 2020 from the gamma isotopic analysis of the river water samples. Tritium was detected in each of the quarterly composites at the indicator station, with an average of 96.6 pCi/L (range of 116 to 197). Tritium was not detected in the control station. The positive tritium results for the indicator station were less than the MDC and RL limits (2,000 pCi/l and 20,000 pCi/l, respectively) for tritium in a drinking water supply source. The MDD was not calculated because of the lack of positive results from the control station. These values represent background conditions for tritium in drinking water

and were not attributable to plant activity. Also, note that negative values in radionuclide activity represent contamination factors (e.g., laboratory equipment) subtracted from the laboratory result.

Figure 3-4 below details the 2020 average tritium concentrations across both water mediums.

Figure 3-4. 2020 Average Tritium Concentrations in River and Off-site Groundwater



3.6 Sediment

Sediment was collected along the shoreline of the Chattahoochee River in the spring and fall at a control station that was approximately four miles upstream of the intake structure and at an indicator station that was approximately two miles downstream of the discharge structure as shown in Map A-3. A gamma isotopic analysis was performed on each sample. There were no reportable radionuclides detected in sediment samples in 2020.

3.7 Interlaboratory Comparison Program

In accordance with ODCM 4.1.3, GPCEL participated in an Interlaboratory Comparison Program (ICP) which satisfied the requirements of Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979. The ICP included the required determinations (sample medium/radionuclide combinations) included in the REMP.

The ICP was conducted by Eckert & Ziegler Analytics, Inc. (EZA) of Atlanta, Georgia. EZA has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party

blind testing program which provided a means to ensure independent checks were performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. EZA supplied the crosscheck samples to GPCEL which performed routine laboratory analyses. Each of the specified analyses was performed three times.

The accuracy of each result was measured by the normalized deviation, which is the ratio of the reported average less the known value to the total error. An investigation was undertaken whenever the absolute value of the normalized deviation was greater than three or whenever the coefficient of variation was greater than 15% for all radionuclides other than Cr-51 and Fe-59. For Cr-51 and Fe-59, an investigation was undertaken when the coefficient of variation exceeded the values shown on Table 3-6 below:

Table 3-6. Interlaboratory Comparison Limits

Nuclide	Concentration *	Total Sample Activity (pCi)	Percent Coefficient of Variation
Cr-51	<300	NA	25
	NA	>1000	25
	>300	<1000	15
Fe-59	<80	NA	25
	>80	NA	15
* For air filters, concentration units are pCi/filter. For all other media, concentration units are pCi/liter (pCi/l).			

As required by ODCM 4.1.3.3 and 7.1.2.3, a summary of the results of the GPCEL's participation in the ICP is provided in Table 3-7 for:

- gross beta and gamma isotopic analyses of an air filter
- gamma isotopic analyses of milk samples
- gross beta, tritium, and gamma isotopic analyses of water samples

The 2020 analyses included tritium, gross beta and gamma emitting radionuclides in different matrices. The results for the analyses were within acceptable limits for accuracy and no investigations were required.

Table 3-7. Interlaboratory Comparison Summary

Analysis or Radionuclide	Date Prepared	Reported Average	Known Value	Standard Deviation EL	Uncertainty Analytics (3S)	Percent Coefficient of Variation	Normalized Deviation
I-131 ANALYSIS OF AN AIR CARTRIDGE (pCi/cartridge)							
I-131	3/12/2020	95.9	91.2	1.33	1.52	5.21	0.95
GAMMA ISOTOPIC ANALYSIS OF AN AIR FILTER (pCi/filter)							
Ce-141	9/10/2020	108	101	3.14	1.69	6.21	1.07
Co-58		126	121	4.97	2.02	5.89	0.71
Co-60		260	255	6.47	4.26	4.49	0.44
Cr-51		273	251	14.8	4.18	8.22	0.99
Cs-134		144	135	6.33	2.25	5.64	1.06
Cs-137		185	168	4.44	2.81	4.71	1.95
Fe-59		140	135	5.80	2.25	6.40	0.59
Mn-54		137	121	3.53	2.03	4.99	2.40
Zn-65		204	182	15.8	3.03	9.13	1.19
GROSS BETA ANALYSIS OF AN AIR FILTER (PCI/FILTER)							
Gross Beta	6/4/2020	219	235	6.28	3.93	3.74	-1.95
GAMMA ISOTOPIC ANALYSIS OF A MILK SAMPLE (PCI/LITER)							
Co-58	9/10/2020	182	180	4.20	3.00	5.83	0.22
Co-60		381	379	9.46	6.33	4.88	0.09
Cr-51		384	372	16.4	6.21	11.2	0.29
Cs-134		199	200	8.89	3.34	6.27	-0.10
Cs-137		262	250	4.79	4.18	5.16	0.88
Fe-59		202	200	9.38	3.35	7.60	0.11
I-131		99.8	95.0	7.88	1.59	11.4	0.42
Mn-54		189	180	10.3	3.01	7.51	0.66
Zn-65		285	270	14.3	4.51	7.75	0.70
Ce-141		155	150	7.47	2.51	7.87	0.44
GROSS BETA ANALYSIS OF WATER SAMPLE (PCI/LITER)							
Gross Beta	6/4/2020	275	240	15.0	4.01	6.54	1.96
GAMMA ISOTOPIC ANALYSIS OF WATER SAMPLES (PCI/LITER)							
Co-58	6/4/2020	104	102	3.62	1.70	7.03	0.30

Table 3-7. Interlaboratory Comparison Summary

Analysis or Radionuclide	Date Prepared	Reported Average	Known Value	Standard Deviation EL	Uncertainty Analytics (3S)	Percent Coefficient of Variation	Normalized Deviation
Co-60		199	198	8.46	3.30	6.18	.12
Cr-51		287	259	18.3	4.33	12.68	.77
Cs-134		153	148	3.91	2.47	5.07	0.68
Cs-137		115	105	4.66	1.75	7.15	1.24
Fe-59		98.2	102	4.20	1.71	8.60	-0.45
I-131		84.2	80.5	4.46	1.34	8.59	0.51
Mn-54		146	135	3.63	2.26	6.03	1.23
Zn-65		252	227	8.69	3.80	6.84	1.43
Ce-141		122	117	3.58	1.96	7.03	0.60
TRITIUM ANALYSIS OF WATER SAMPLES (PCI/LITER)							
H-3	9/10/2020	11700	12000	57.74	201	2.08	-1.38
GAMMA ISOTOPIC ANALYSIS OF VEGETATION SAMPLES (PCI/LITER)							
Co-58		152	159	11.8	2.65	11.2	-0.41
Co-60		291	309	10.4	5.16	6.24	-1.02
Cr-51		431	405	37.8	6.77	19.5	0.31
Cs-134		224	231	9.55	3.86	6.84	-0.45
Cs-137	6/4/2020	163	164	7.47	2.74	8.89	-0.07
Fe-59		157	160	10.8	2.67	13.0	-0.15
Mn-54		213	212	13.4	3.53	9.13	0.07
Zn-65		377	355	12.6	5.94	8.71	0.68
Ce-141		192	184	7.53	3.07	8.93	0.44

3.8 Groundwater

To ensure compliance with NEI 07-07 (Industry Ground Water Protection Initiative – Final Guidance Document), Southern Nuclear implemented a groundwater protection program which is procedualized in Nuclear Management Procedure, Radiological Groundwater Protection Program. The procedure contains detailed site-specific monitoring plans, program technical bases, and communications protocol (to ensure that radioactive leaks and spills are addressed and communicated appropriately). In an effort to prevent future leaks of radioactive material to groundwater, SNC plants have established buried piping and tanks inspection programs. The only change made to the Groundwater Protection Program in 2020 was that monitoring well R-6 was relocated due to site construction activities; the new location still monitors the same dilution line.

Plant Farley maintained the following wells (Table 3-8), which were sampled at a frequency that satisfied the requirements of NEI 07-07. The analytical results for 2020 were all within regulatory limits specified within this report. Table 3-9 contains the results of the Groundwater Protection Program results for tritium (in pCi/L). See Map A-4 in Appendix A for well locations

Table 3-8. Groundwater Protection Program Locations

Well	Aquifer	Monitoring Purpose
R1	Major Shallow aquifer	Dilution line
R2	Major Shallow aquifer	Dilution line
R3	Major Shallow aquifer	Unit 2 RWST
R4	Major Shallow aquifer	Unit 1 RWST
R5	Major Shallow aquifer	Dilution line
R6	Major Shallow aquifer	Dilution line
R7	Major Shallow aquifer	Dilution line
R8	Major Shallow aquifer	Dilution line
R9	Major Shallow aquifer	Dilution line
R10	Major Shallow aquifer	Dilution line
R11	Major Shallow aquifer	Background 1
R13	Major Shallow aquifer	Dilution line
R14	Major Shallow aquifer	Background 2
PW#2	Drinking water	Production Well #2 Supply
PW#3	Drinking water	Production Well #3 Supply
PW#4	Drinking water	Production Well #4 Supply
CW West	Drinking water	Construction Well West Supply
CW East	Drinking water	Construction Well East Supply
FRW	Drinking water	Firing Range Well Supply
SW-1	N/A	Background 3, Service Water Pond

Table 3-9. Groundwater Protection Program Results

Well	June 2020	November 2020
R1	NDM	NDM
R2	89	NDM
R3	527	571
R4	NDM	NDM
R5	NDM	NDM
R6	NS	NS
R7	NDM	NDM
R8	NDM	NDM
R9	136	NDM
R10	NDM	NDM
R11	NDM	NDM
R13	NDM	NDM
R14	89	NDM
SW-1	NDM	NDM
E Yard	NDM	NDM
WSW-FR	NDM	NDM
WSW-CE	268	NDM
WSW-4	122	NDM
SE Yard	NDM	NDM
WSW-2	NDM	NDM

Units in pCi/L
NDM – No Detectable Measurements
NS – Not Sampled

4 SURVEY SUMMARIES

4.1 Land Use Census

In accordance with ODCM 4.1.2, a land use census was conducted in December 2020 that circumscribed each of the 16 compass sectors within a five-mile radius in order to verify the locations of the nearest radiological receptor. The land use census results are tabulated in Table 4.1. The 2020 land uses census results, shown in Table 4-1, indicated that a revision to the ODCM will not be required.

Table 4-1. Land Use Census Results

Sector	Residence	Milk Animal*
Distance in Miles to the Nearest Location in Each Sector		
N	2.6	None
NNE	2.5	None
NE	2.4	None
ENE	2.4	None
E	2.8	None
ESE	3.0	None
SE	3.4	None
SSE	None (>5.0)	None
S	4.3	None
SSW	2.9	None
SW	1.2	None
WSW	2.4	None
W	1.3	None
WNW	2.1	None
NW	1.5	None
NNW	3.4	None
*A milk animal is a cow or goat producing milk for human consumption.		

4.2 Chattahoochee River Survey

A previous river survey performed for Plant Farley identified a potential use of water from the Chattahoochee River, downstream of the plant discharge at approximately 2 miles. In July 2013, the Georgia Department of Natural Resources issued a farm use permit to withdraw from the Chattahoochee River to the Nature Conservancy of Georgia. The Nature Conservancy of Georgia leases property along the river for agricultural and grazing purposes to a private farm family, and water from the river could potentially be used for crop irrigation. At the time of this report, no water has been withdrawn and used for crop irrigation by the landowners.

In the fall of 2020, the Georgia Environmental Protection Division (EPD), Alabama Department of Environmental Management (ADEM) and Alabama Department of Economic and Community

Affairs (ADECA) was contacted to request any information about river use permits that had been issued in the area near the plant. No additional withdrawal permits or intake locations had been added at the time of the survey.

4.3 Meteorological Report Summary

A consultant analyzes the meteorological tower data collected throughout the year and compares it to previous results. In 2020, the meteorological tower results were comparable to previous years, as related to precipitation amounts (62.61”) and wind direction (from northwest at 10m, from the southwest at 45m). Additionally, the meteorological data meets the quality requirements, therefore, no changes to REMP monitoring locations are warranted.

5 CONCLUSIONS

This report has confirmed SNCs conformance with the requirements of Chapter 4 of the ODCM and the objectives were to:

1) Determine the levels of radiation and the concentrations of radioactivity in the environs; and
2) Assess the radiological impact (if any) to the environment due to the operation of the FNP.

Based on the 2020 activities associated with the REMP, SNC offers the following conclusions:

- Samples were collected and there were no deviations or anomalies that negatively affected the quality of the REMP
- Land use census and river survey did not require any changes
- Analytical results were below reporting levels
- These values were consistent with historical results which indicate no adverse radiological environmental impacts associated with the operation of FNP

APPENDIX A

Maps

N
N
NW
NE
W
E
SW
SE
S
5 Miles
1606
1504
104
1404
204
1304
304
1401
1601
1501
101
201
1301
301
401
405
1201
501
1101
1001
601
901
801
701
1204
1108
1104
1005
703
605
505
904
Columbia
Ashford
SR 95
GA 92
GA 370
SR 52
US 84
273
Cedar Springs Rd
Cedar Springs Highway
Great Southern Highway
Ochlocknee River
0 1.25 2.5 5 Miles
© OpenStreetMap

Appendix A
Map A-1

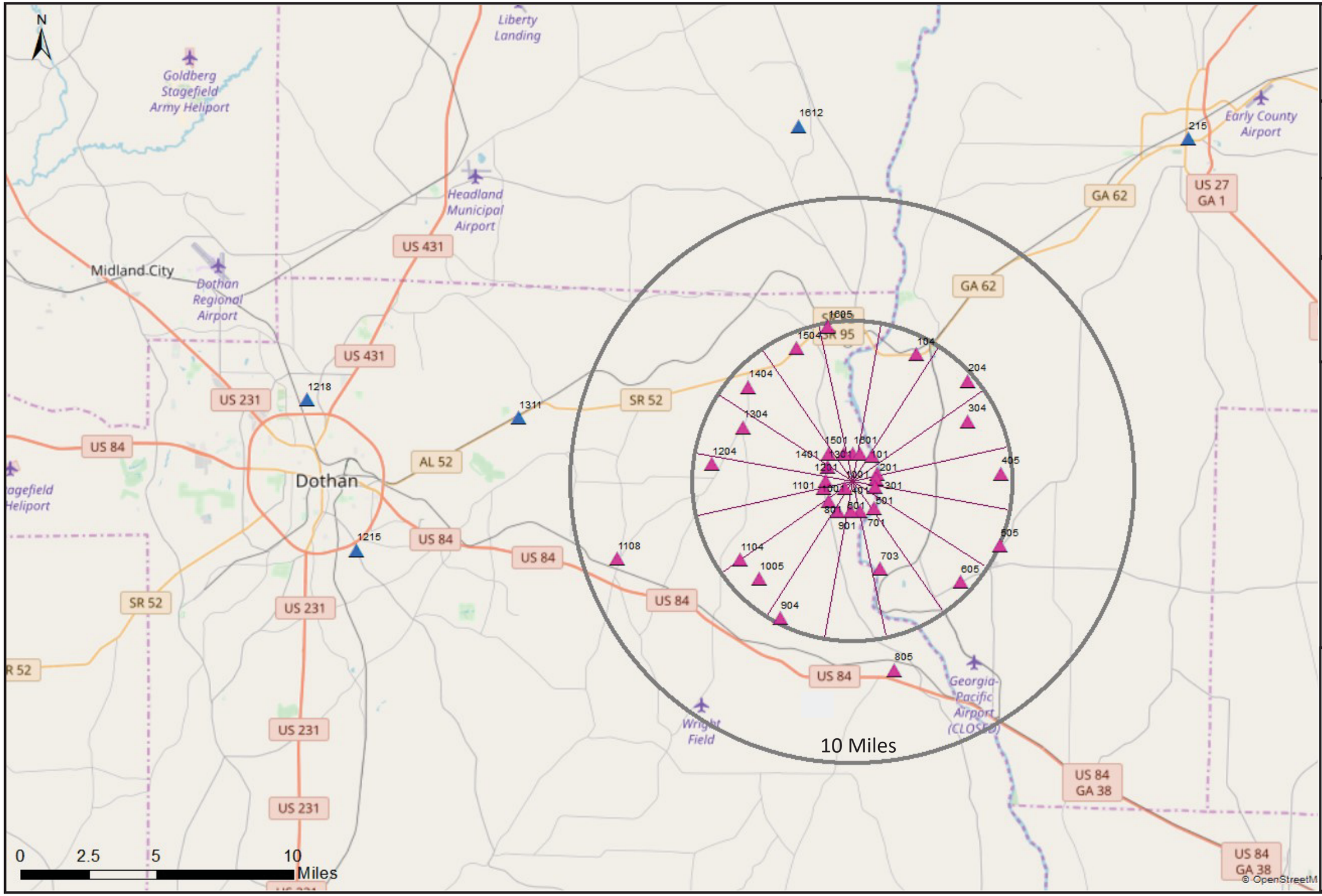
Drawn by: C. Groce

April 20, 2021

Southern Nuclear

Joseph M. Farley Nuclear Plant
2020 Radiological Environmental Report REMP
Stations in Plant Vicinity

Legend:
Indicator Stations -



Appendix A
Map A-2

Drawn by: C. Groce

April 20, 2021

Southern Nuclear

Joseph M. Farley Nuclear Plant
2020 Radiological Environmental Report REMP
Stations Within 10 Miles

Legend:
Indicator Stations -
Control Stations -

Appendix A
Map A-3

C. Groce

Drawn by:

April 20, 2021

Southern Nuclear

Joseph M. Farley Nuclear Plant
2020 Radiological Environmental Report REMP
Extended Station Locations

Legend:

Control Stations -

0 3.75 7.5 15 Miles

© OpenStreetM

N

PW2

R-11

CW East

CW West

PW4

R-14

R-1

R-2

R-3

R-4

R-5

R-6

R-7

R-8

R-9

R-10

PW1

PW3

SW1

R-13

FRW

Chattahoochee River

SR 95

0 0.25 0.5 1 Miles

Appendix A
Map A-4

C. Groce

Drawn by:

April 20, 2021

Southern Nuclear

Joseph M. Farley Nuclear Plant
2020 Radiological Environmental Report REMP
Facility Groundwater Wells

Legend:

Groundwater Wells -

APPENDIX B

Errata

There are no errata for the 2020 reporting year.

Edwin I. Hatch Nuclear Plant – Units 1 & 2
Joseph M. Farley Nuclear Plant – Units 1 & 2
Vogtle Electric Generating Plant – Units 1 & 2
Annual Radiological Environmental Operating Reports for 2020

Enclosure 3

Vogtle Annual Radiological Environmental Operating Report for 2020

VOGTLE ELECTRIC GENERATING PLANT
2020 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Southern Nuclear

TABLE OF CONTENTS

Tables

Figures

Appendix A – Maps

Appendix B – Errata

Appendix C – Data

LIST OF ACRONYMS

EPA	Environmental Protection Agency
GPC	Georgia Power Company
GPCEL	Georgia Power Company Environmental Laboratory
ICP	Interlaboratory Comparison Program
MDC	Minimum Detectable Concentration
MDD	Minimum Detectable Difference
MWt	MegaWatts Thermal
NA	Not Applicable
NDM	No Detectable Measurement(s)
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
OSL	Optically Stimulated Luminescence
PWR	Pressurized Water Reactor
REMP	Radiological Environmental Monitoring Program
RL	Reporting Level
RM	River Mile
SNC	Southern Nuclear Operating Company
SRS	Savannah River Site
TLD	Thermoluminescent Dosimeter
TS	Technical Specification
VEGP	Alvin W. Vogtle Electric Generating Plant

1 INTRODUCTION

The Radiological Environmental Monitoring Program (REMP) was conducted in accordance with Chapter 4 of the Offsite Dose Calculation Manual (ODCM). The REMP activities for 2020 are reported herein in accordance with Technical Specification (TS) Section 5.6.2 and ODCM Section 7.1.

The objectives of the REMP were to:

1) Determine the levels of radiation and the concentrations of radioactivity in the environs and;
2) Assess the radiological impact (if any) to the environment due to the operation of the Alvin W. Vogtle Electric Generating Plant (VEGP).

The assessments included comparisons between results of analyses of samples obtained at locations where radiological levels were not expected to be affected by plant operation (control stations), areas of higher population (community stations), and at locations where radiological levels were more likely to be affected by plant operation (indicator stations), as well as comparisons between preoperational and operational sample results.

VEGP is owned by Georgia Power Company (GPC), Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia, and the City of Dalton, Georgia. It is located on the southwest side of the Savannah River approximately 23 river miles upstream from the intersection of the Savannah River and U.S. Highway 301. The site is in the eastern sector of Burke County, Georgia, across the river from Barnwell County, South Carolina. The VEGP site is directly across the Savannah River from the Department of Energy Savannah River Site (SRS). Unit 1, a Westinghouse Electric Corporation Pressurized Water Reactor (PWR), with a licensed core thermal power of 3,626 MegaWatts (MWt), received its operating license on January 16, 1987 and commercial operation started on May 31, 1987. Unit 2, also a Westinghouse PWR rated for 3,626 MWt, received its operating license on February 9, 1989 and began commercial operation on May 19, 1989. Both units were relicensed on June 3, 2009.

The pre-operational stage of the REMP began with initial sample collections in August of 1981. The transition from the pre-operational to the operational stage of the REMP occurred as Unit 1 reached initial criticality on March 9, 1987.

- A description of the REMP is provided in Section 2 of this report
- Section 3 provides a summary of the results, an assessment of any radiological impacts to the environment, and the results from the interlaboratory comparison
- A summary of the land use census and the river survey are included in Section 4
- Conclusions are included in Section 5

2 REMP DESCRIPTION

The following section provides a description of the sampling and laboratory protocols associated with the REMP. Table 2-1 provides a summary of the sample types to be collected and the analyses to be performed in order to monitor the airborne, direct radiation, waterborne and ingestion pathways, and also summarizes the collection and analysis frequencies (in accordance with ODCM Section 4.2). Table 2-2 provides specific information regarding the station locations, their proximity to the plant, and exposure pathways. Additionally, Appendix A of this report provides Maps A-1 through A-4 that depict the georeferenced location of sampling stations are. Appendix B contains any Errata from previous reports, no Errata was identified for inclusion in this 2020 report. Analytical results for each of the analyzed REMP sampling points are provided in Appendix C.

During 2020 a contractor through Southern Nuclear Operating Company (SNC) provided services for the collection of all of the REMP samples. The Georgia Power Central Environmental Laboratory (GPCEL) analyzed all REMP samples.

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or	Number of Representative Samples and Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Direct Radiation	40 routine monitoring stations with two or more dosimeters placed as follows: An inner ring of stations, one in each compass sector in the general area of the site boundary; An outer ring of stations, one in each compass sector at approximately five miles from the site; and Special interest areas, such as population centers, nearby recreation areas, and control stations	Quarterly	Gamma dose/Quarterly
Airborne Radioiodine and Particulates	Samples from seven locations: Five locations close to the site boundary in different sectors; A community having the highest calculated annual average ground level D/Q; A control location near a population center at a distance of about 14 miles	Continuous sampler operation with sample collection weekly, or more frequently if required by dust loading	Radioiodine canister: I-131 analysis, weekly Particulate sampler: Gross beta analysis[1] following filter change and gamma isotopic analysis[2] of composite (by location) /Quarterly
Waterborne			
Surface[3]	One sample upriver Two samples downriver	Composite sample over one month period[4]	Gamma isotopic analysis[2], monthly Composite for tritium analysis/Quarterly

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or	Number of Representative Samples and Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Drinking	Two samples at each of the three nearest water treatment plants that could be affected by plant discharges Two samples at a control location	Composite sample of river water near the intake of each water treatment plant over two week period[4] when I-131 analysis is required for each sample; monthly composite otherwise; and grab sample of finished water at each water treatment plant every two weeks or monthly, as appropriate	I-131 analysis on each sample when the dose calculated for the consumption of the water is greater than 1 mrem per year[5]. Composite for gross beta and gamma isotopic analysis[2] on raw water/Monthly. Gross beta, gamma isotopic and I-131 analyses on grab sample of finished water/Monthly. Composite for tritium analysis on raw and finished water/Quarterly
Groundwater	See Table 3-8 and Map A-4 for well locations. These are part of the GWPP (NEI 07-07).	Frequency based on GWPP.	Tritium, gamma isotopic, and field parameters of each sample; hard-to-detects based on tritium and gamma results
Shoreline Sediment	One sample from downriver area with existing or potential recreational value One sample from upriver area with existing or potential recreational value	Semiannually	Gamma isotopic analysis[2]/Semiannually
Ingestion			
Milk	Two samples from milking animals[6] one from an indicator station at a distance of approximately 5.5 miles, and a control location at a distance of about 10 miles or more	Bimonthly	Gamma isotopic analysis[2,7]/Bimonthly

Table 2-1. Summary Description of Radiological Environmental Monitoring Program

Exposure Pathway and/or	Number of Representative Samples and Sample Locations	Sampling/Collection Frequency	Type/Frequency of Analysis
Fish	At least one sample of any commercially or recreationally important species near the plant discharge At least one sample of any commercially or recreationally important species in an area not influenced by plant discharges At least one sample of any anadromous species near the plant discharge	Semiannually During spring spawning season	Gamma isotopic analysis[2] on edible portions/Semiannually Gamma isotopic analysis[2] on edible portions/Annually.
Grass or Leafy Vegetation	One sample from two onsite locations near the site boundary in different sectors One sample from a control location at a distance of about 17 miles	Monthly during growing season	Gamma isotopic analysis[2,7]Monthly

Notes:
[1]Airborne particulate sample filters were analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples was greater than 10 times the yearly mean of control samples, gamma isotopic analysis was performed on the individual samples.
[2]Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.
[3]Upriver sample was taken at a distance beyond significant influence of the discharge. Downriver samples were taken beyond but near the mixing zone.
[4]Composite sample aliquots were collected at time intervals that were very short (e.g., hourly) relative to the compositing period (e.g., monthly) to ensure obtaining a representative sample.
[5]The dose was calculated for the maximum organ and age group, using the methodology and parameters in the ODCM.
[6]A milking animal is a cow or goat producing milk for human consumption.
[7]If the gamma isotopic analysis is not sensitive enough to meet the Minimum Detectable Concentration (MDC) for I-131, a separate analysis for I-131 may be performed.

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
1	Indicator	River Bank	N	1.1	Direct
2	Indicator	River Bank	NNE	0.8	Direct
3	Indicator	Discharge Area	NE	0.6	Airborne
3	Indicator	River Bank	NE	0.7	Direct
4	Indicator	River Bank	ENE	0.8	Direct
5	Indicator	River Bank	E	1.0	Direct
6	Indicator	Plant Wilson	ESE	1.1	Direct
7	Indicator	Simulator Building	SE	1.7	Airborne, Direct, Vegetation
8	Indicator	River Road	SSE	1.1	Direct
9	Indicator	River Road	S	1.1	Direct
10	Indicator	Met Tower	SSW	0.9	Airborne
10	Indicator	River Road	SSW	1.1	Direct
11	Indicator	River Road	SW	1.2	Direct
12	Indicator	River Road	WSW	1.2	Airborne, Direct
13	Indicator	River Road	W	1.3	Direct
14	Indicator	River Road	WNW	1.8	Direct
15	Indicator	Hancock Landing Road	NW	1.5	Direct, Vegetation
16	Indicator	Hancock Landing Road	NNW	1.4	Airborne, Direct
17	Other	Sav. River Site (SRS), River Road	N	5.4	Direct
18	Other	SRS, D Area	NNE	5.0	Direct
19	Other	SRS, Road A.13	NE	4.6	Direct
20	Other	SRS, Road A.13.1	ENE	4.8	Direct
21	Other	SRS, Road A.17	E	5.3	Direct
22	Other	River Bank	ESE	5.2	Direct

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
23	Other	River Road	SE	4.6	Direct
24	Other	Chance Road	SSE	4.9	Direct
25	Other	Chance Road near Highway 23	S	5.2	Direct
26	Other	Highway 23 and Ebenezer Church Road	SSW	4.6	Direct
27	Other	Highway 23 opposite Boll Weevil Road	SW	4.7	Direct
28	Other	Thomas Road	WSW	5.0	Direct
29	Other	Claxton-Lively Road	W	5.1	Direct
30	Other	Nathaniel Howard Road	WNW	5.0	Direct
31	Other	River Road at Allen's Chapel Fork	NW	5.0	Direct
32	Other	River Bank	NNW	4.7	Direct
35	Other	Girard	SSE	6.6	Airborne, Direct
36	Control	GPC Waynesboro Op. HQ	WSW	13.9	Airborne, Direct
37	Control	Substation, Waynesboro, GA	WSW	16.7	Direct, Vegetation
43	Other	Employee's Rec. Center	SW	2.2	Direct
47	Control	Oak Grove Church	SE	10.4	Direct
48	Control	McBean Cemetery	NW	10.2	Direct
51	Control	SGA School, Sardis, GA	S	11.0	Direct
52	Control	Oglethorpe Substation; Alexander, GA	SW	10.7	Direct
80	Control	Augusta Water Treatment Plant	NNW	29.0	Drinking Water[2]
81	Control	Sav. River	N	2.5	Fish[3] Sediment[4]
82	Control	Sav. River (RM 151.2)	NNE	0.8	River Water
83	Indicator	Sav. River (RM 150.4)	ENE	0.8	River Water Sediment[4]
84	Other	Sav. River (RM 149.5)	ESE	1.6	River Water
85	Indicator	Sav. River	ESE	4.3	Fish[3]
87	Indicator	Beaufort-Jasper County Water Treatment Plant	SE	76	Drinking Water[5]

Table 2-2. Radiological Environmental Sampling Locations

Station Number	Station Type	Descriptive Location	Direction[1]	Distance (miles)[1]	Radiation Sample Type
88	Indicator	Cherokee Hill Water Treatment Plant, Port Wentworth, GA	SSE	72	Drinking Water[6]
89	Indicator	Purrysburg Water Treatment Plant; Purrysburg, SC	SSE	76	Drinking Water[7]
98	Control	W.C. Dixon Dairy	SE	9.8	Milk[8]
101	Indicator	Girard Dairy	S	5.5	Milk[8]
102	Control	Seven Oaks Dairy/Milky Way Dairy	W	7.5/16.0	Milk[8]

Notes:

[1]Direction and distance were determined from a point midway between the two reactors.

[2]The intake for the Augusta Water Treatment Plant was located on the Augusta Canal. The entrance to the canal was at River Mile (RM) 207 on the Savannah River. The canal effectively parallels the river. The intake to the pumping station was about 4 miles down the canal.

[3]A 5-mile stretch of the river was generally needed to obtain adequate fish samples. Samples were normally gathered between RM 153 and 158 for upriver collections and between RM 144 and 149.4 for downriver collections.

[4]Sediment was collected at locations with existing or potential recreational value. Because high water, shifting of the river bottom, or other reasons could cause a suitable location for sediment collections to become unavailable or unsuitable, a stretch of the river between RM 148.5 and 150.5 was designated for downriver collections while a stretch between RM 153 and 154 was designated for upriver collections. In practice, collections were normally made at RM 150.2 for downriver collections and RM 153.3 for upriver collections.

5 DELETED THIS SAMPLE LOCATION IN 2014 (LDCR 2014004) The intake for the Beaufort-Jasper County Water Treatment Plant was located at the end of canal that began at RM 39.3 on the Savannah River. This intake was about 16 miles by line of sight down the canal from its beginning on the Savannah River.

[6]The intake for the Cherokee Hill Water Treatment Plant was located on Abercorn Creek which is about one and a quarter creek miles from its mouth on the Savannah River at RM 29.

[7]The intake for the Purrysburg Water Treatment Plant was located on the same canal as the Beaufort-Jasper Water Treatment Plant. The Purrysburg intake was closer to the Savannah River at the beginning of the canal.

[8]Girard Dairy was considered an indicator station since it is the closest dairy to the plant (˜5.5 miles). Dixon Dairy went out of business in June 2009 and Seven Oaks Dairy (˜7.5 miles) was added as a replacement and was considered a control station even though a control station is typically 10 miles or greater. Milky Way Dairy was identified and added to the ODCM in 2015 to replace Seven Oaks since it is at 16.0 miles from the plant.

3 RESULTS SUMMARY

Included in this section are statistical evaluations of the laboratory results, comparison of the results by media, and a summary of the anomalies and deviations. Overall, 2,772 analyses were performed across nine exposure pathways. Tables and figures are provided throughout this section to provide an enhanced presentation of the information.

In recent history, man-made nuclides have been released into the environment and have resulted in wide spread distribution of radionuclides across the globe. For example, atmospheric nuclear weapons tests from the mid-1940s through 1980 distributed man-made nuclides around the world. The most recent atmospheric tests in the 1970s and in 1980 have had a significant impact upon the radiological concentrations found in the environment prior to and during pre-operation, and through early operation. Some long-lived radionuclides, such as Cs-137, continue to be detected and a portion of these detections are believed to be attributed to the nuclear weapons tests.

Additionally, data associated with certain radiological effects created by off-site events have been removed from the historical evaluation, this includes: the nuclear atmospheric weapon test in the fall of 1980; the Chernobyl incident in the spring of 1986; abnormal releases from the Savannah River Site (SRS) during 1987 and 1991; and the Fukushima event in the spring of 2011.

As indicated in ODCM 7.1.2.1, the results for naturally occurring radionuclides that are also found in plant effluents must be reported along with man-made radionuclides. Historically, the radionuclide Be-7, which occurs abundantly in nature, is often detected in REMP samples, and occasionally detected in the plant's liquid and gaseous effluents. In 2020, Be-7 was not detected in any plant effluents and therefore it was not included in this report When it is detected in plant effluents and REMP samples, it is also included in the REMP results. The Be-7 detected in select REMP samples likely represents naturally occurring and/or background conditions.

As part of the data evaluation process, SNC considered the impact of the non-plant associated nuclides along with a statistical evaluation of the REMP data. The statistical evaluations included within this report include the Minimum Detectable Concentration (MDC), the Minimum Detectable Difference (MDD), and Chauvenet's Criterion as described below.

Minimum Detectable Concentration

The minimum detectable concentration is defined as an estimate of the true concentration of an analyte required to give a specified high probability that the measured response will be greater than the critical value.

Minimum Detectable Difference

The Minimum Detectable Difference (MDD) compares the lowest significant difference (between the means) of a control station, versus an indicator station or a community station, that can be determined statistically at the 99% Confidence Level. A difference in mean values which was less than the MDD was considered to be statistically indiscernible. The MDD is used to evaluate the statistical proximity between the indicator/community and control sample results, but generally, any results that are less than the MDC and/or Reporting Levels (RL) are considered to have minimal impact on the surrounding environs.

Chauvenet's Criterion

All results were tested for conformance with Chauvenet's Criterion (G. D. Chase and J. L. Rabinowitz, Principles of Radioisotope Methodology, Burgess Publishing Company, 1962, pages 87-90) to identify values which differed from the mean of a set by a statistically significant amount. Identified outliers were investigated to determine the reason(s) for the difference. If equipment malfunction or other valid physical reasons were identified as causing the variation, the anomalous result was excluded from the data set as non-representative.

Table 3-1 summarizes and evaluates the annual results for the indicator stations against the control and community stations (where applicable) and as appropriate, results were evaluated against the MDCs (listed in Table 3-1) and RLs (listed in Table 3-2). The required MDCs were achieved during laboratory sample analysis. The 2020 results were compared with previous results, including those obtained during pre-operation. No data points were excluded for violating Chauvenet's Criterion.

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Location Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
Airborne Particulates (fCi/m3)	Gross Beta 361	10	22.5 10.1-50.4 (255/255)	River Road WSW 1.2 mi.	23.3 16.7-41.4 (51/51)	20.6 10.1-38.9 (51/51)	21.0 11.8-41.4 (51/51)
	Gamma Isotopic 28						
	I-131	70	NDM(c)		NDM	NDM	NDM
	Cs-134	50	NDM		NDM	NDM	NDM
	Cs-137	60	NDM		NDM	NDM	NDM
Airborne Radioiodine (fCi/m3)	I-131 364	70	NDM		NDM	NDM	NDM
Direct Radiation (mR/91 days)	Gamma Dose 160		10.2 2.2-19.3 (64/64)	SRS, Road A.13.1 ENE 4.8 mi.	16.1 13.7-20.8 (4/4)	11.4 4.4-20.8 (72/72)	11.3 6.2-20.5 (24/24)
Milk (pCi/l)	Gamma Isotopic 50						
	I-131	1	NDM		NDM		NDM
	Cs-134	15	NDM		NDM		NDM
	Cs-137	18	1.6 1.5-1.7 (4/21)	Girard Dairy S 5.5 mi	1.6 1.5-1.7 (4/21)		1.3 1.3-1.3 (1/9)
	Ba-140	60	NDM		NDM		NDM
	La-140	15	NDM		NDM		NDM
Vegetation (pCi/kg-wet)	Gamma Isotopic 36						

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Location Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	I-131	60	NDM		NDM		NDM
	Cs-134	60	NDM		NDM		NDM
	Cs-137	80	NDM		NDM		NDM
River Water (pCi/l)	Gamma Isotopic 36						
	Be-7	124(d)	NDM		NDM	NDM	NDM
	Mn-54	15	NDM		NDM	NDM	NDM
	Fe-59	30	NDM		NDM	NDM	NDM
	Co-58	15	NDM		NDM	NDM	NDM
	Co-60	15	NDM		NDM	NDM	NDM
	Zn-65	30	NDM		NDM	NDM	NDM
	Zr-95	30	NDM		NDM	NDM	NDM
	Nb-95	15	NDM		NDM	NDM	NDM
	I-131	1	NDM		NDM	NDM	NDM
	Cs-134	15	NDM		NDM	NDM	NDM
	Cs-137	18	NDM		NDM	NDM	NDM
	Ba-140	60	NDM		NDM	NDM	NDM
	La-140	15	NDM		NDM	NDM	NDM
	Tritium 12	2000	1095 185-1600 (4/4)	Savannah River (RM 150.4) ENE 0.8 mi	1095 185-1600 (4/4)	323 0-634 (3/4)	119 0-178 (2/4)
Raw Water Near Intakes to Water Treatment Plants (pCi/l)	Gross Beta 35	4	2.8 0.9-6.1 (20/20)	Cherokee Hill Water Treatment Plant, Port Wentworth, GA SSE 72 mi.	3.2 0.9-6.1 (12/12)		2.0 0.6-3.5 (11/11)
	Gamma Isotopic 36						

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Location Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Be-7	124(d)	NDM		NDM		NDM
	Mn-54	15	NDM		NDM		NDM
	Fe-59	30	NDM		NDM		NDM
	Co-58	15	NDM		NDM		NDM
	Co-60	15	NDM		NDM		NDM
	Zn-65	30	NDM		NDM		NDM
	Zr-95	30	NDM		NDM		NDM
	Nb-95	15	NDM		NDM		NDM
	I-131	1	NDM		NDM		NDM
	Cs-134	15	NDM		NDM		NDM
	Cs-137	18	NDM		NDM		NDM
	Ba-140	60	NDM		NDM		NDM
	La-140	15	NDM		NDM		NDM
	Tritium 12	2000	302 111-550 (8/8)	Cherokee Hill Water Treatment Plant, Port Wentworth, GA SSE 72	325 227-549 (10/10)		137 0-157 (2/4)
Finished Water at Water Treatment Plants (pCi/l)	Gross Beta 35	4	2.5 0-1.8 (30/30)	Cherokee Hill Water Treatment Plant, Port Wentworth, GA SSE 72	2.6 0.9—6.5 (10/10)		2.3 1.1-4.1 (11/11)
	Gamma Isotopic 36						
	Be-7	124(d)	NDM		NDM		NDM
	Mn-54	15	NDM		NDM		NDM
	Fe-59	30	NDM		NDM		NDM
	Co-58	15	NDM		NDM		NDM
	Co-60	15	NDM		NDM		NDM
	Zn-65	30	NDM		NDM		NDM

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Location Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Zr-95	30	NDM		NDM		NDM
	Nb-95	15	NDM		NDM		NDM
	I-131	1	NDM		NDM		NDM
	Cs-134	15	NDM		NDM		NDM
	Cs-137	18	NDM		NDM		NDM
	Ba-140	60	NDM		NDM		NDM
	La-140	15	NDM		NDM		NDM
	Tritium 12	2000	315 116-584 (8/8)	Cherokee Hill Water Treatment Plant, Port Wentworth, GA SSE 72	324 158-517 (4/4)		105 0-136 (4/4)
Anadromous Fish (pCi/kg-wet)	Gamma Isotopic 2						
	Be-7	655(d)			NA		NDM
	Mn-54	130			NA		NDM
	Fe-59	260			NA		NDM
	Co-58	130			NA		NDM
	Co-60	130			NA		NDM
	Zn-65	260			NA		NDM
	Cs-134	130			NA		NDM
	Cs-137	150			NA		NDM
Fish (pCi/kg-wet)	Gamma Isotopic 8						
	Be-7	655(d)	NDM				NDM
	Mn-54	130	NDM				NDM
	Fe-59	260	NDM				NDM
	Co-58	130	NDM				NDM

Table 3-1. Radiological Environmental Monitoring Program Annual Summary

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Minimum Detectable Concentration (MDC) (a)	Indicator Location Mean (b), Range (Fraction)	Location with the Highest Annual Mean		Other Stations (f) Mean (b), Range (Fraction)	Control Locations Mean (b), Range (Fraction)
				Name Distance and Direction	Mean (b), Range (Fraction)		
	Co-60	130	NDM				NDM
	Zn-65	260	NDM				NDM
	Cs-134	130	NDM				NDM
	Cs-137	150	39.2 0-40.7 2/7	Savannah River, ESE, 4.3 mi.	39.2 0-40.7 2/2		35.6 0-48.9 2/6
Sediment (pCi/kg-dry)	Gamma Isotopic 3						
	Co-58	N/A	NDM				NDM
	Co-60	N/A	NDM				NDM
	Cs-134	150	NDM				NDM
	Cs-137	180	114 0-114 1/2	Sav River N 2.5 mi.	120 0-120 1/2		120 0-120 1/2

Notes:
(a)The MDC is defined in ODCM 10.1. Except as noted otherwise, the values listed in this column are the detection capabilities required by ODCM Table 4-3. The values listed in this column are a priori (before the fact) MDCs. In practice, the a posteriori (after the fact) MDCs are generally lower than the values listed.
(b) Mean and range were based upon detectable measurements only. The fraction of all measurements at a specified location that are detectable is placed in parenthesis.
(c) No Detectable Measurement(s) (NDM).
(d) The Georgia Power Company Environmental Laboratory has determined that this value may be routinely attained under normal conditions. No value is provided in ODCM Table 4-3.
(e) Item 3 of ODCM Table 4-1 implies that an I-131 analysis was not required to be performed on water samples when the dose calculated from the consumption of water was less than 1 mrem per year. However, I-131 analyses were performed on the finished drinking water samples.
(f) "Other" stations, as identified in the "Station Type" column of Table 2-2, are "Community" and/or "Special" stations.
Not Applicable (NA) (sample or analysis not required)

Table 3-2. Reporting Levels (RL)

Analysis	Water (pCi/l)	Airborne Particulate or Gases (fCi/m3)	Fish (pCi/kg-wet)	Milk (pCi/l)	Grass or Leafy 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-95	400				
Nb-95	700				
I-131	2[b]	900		3	100
Cs-134	30	10,000	1,000	60	1,000
Cs-137	50	20,000	2,000	70	2,000
Ba-140	200			300	
La-140	100			400	

[a] This is the 40 CFR 141 value for drinking water samples. If no drinking water pathway exists, a value of 30,000 may be used.
[b] If no drinking water pathway exists, a value of 20 pCi/l may be used.

In accordance with ODCM 4.1.1.2.1, deviations from the required sampling schedule were permitted, if samples were unobtainable due to hazardous conditions, unavailability, inclement weather, equipment malfunction or other just reasons. Deviations from conducting the REMP sampling (as described in Table 2-1) are summarized in Table 3-3 along with their causes and resolution.

Table 3-3. Anomalies and Deviations from Radiological Environmental Monitoring Program

Collection Period	Affected Samples	Anomaly (A)* or Deviation (D)**	Cause	Resolution
March 2020	River Water	(D) Inability to safely access the river	This was due to the extremely high river levels in the Savannah River. The high river levels have closed many of the boat ramps in the area and they also pose a high safety risk.	The sampling activities resumed in April 2020.
April 2020	Milk (Milky Way Dairy)	(D) Natural disaster/weather event	Tornado caused extensive damage to the Milky Way Dairy	Samples were not collected for several months as the dairy recovered from the destruction.
August 2020	Water	(D) Sample collected but out of hold time	Shipping error.	There was no opportunity to resample by the time the vendor learned about it from the Georgia Power Lab.
August 2020	Air Sample (Waynesboro)	(D) Insufficient sample collected	Electrical failure (multi-outlet failure).	Outlet was troubleshot and repaired/replaced.
September 2020	Air Sample (River Road)	(D) Insufficient sample collected	Pump failure.	Pump replaced; sampling station returned to service.
December 2020	Air Sample	(D) Time Counter deficiency	The simulator air cabinet time counter did not register time elapsed this month due to plug not holding in a worn receptacle	Changed the location of plug to different receptacle
December 2020	Vegetation (All Locations)	(D) Insufficient sample collected	Vegetation plots unable to withstand extended freezing temperatures	Fresh planting of grass variety able to withstand colder temperatures

* An anomaly is considered a non-standard sample that still meets sampling criteria outlined in SNC and Georgia Power Labs procedures.
** A deviation is a sample result that is not recorded due to not meeting scheduling and/or procedural requirements as outlined by SNC and Georgia Power Labs

3.1 Airborne Particulates

As specified in Table 2-1, airborne particulate filters and charcoal canisters were collected weekly at five indicator stations (Stations 3, 7, 10, 12 and 16) which encircle the plant at the site periphery, at a nearby community station (Station 35) approximately seven miles from the plant, and at a control station (Station 36) approximately 14 miles from the plant. At each sampling location containing a filter and cartridge series, air was continuously drawn through a glass fiber filter to retain airborne particulate and an activated charcoal canister was placed in series with the particulate filter to adsorb radioiodine.

3.1.1 Gross Beta

As provided in Table 3-1, the 2020 annual average weekly gross beta activity at the indicator stations was 22.5 fCi/m3. It was 1.5 fCi/m3 more than the control station average of 21.0 fCi/m3. The calculated MDD was 0.9 fCi/m3, which indicated that there was a discernible statistical difference between the two data sets, however as the difference above the MDD was only 0.6 fCi/m3, this excess is not considered a concern.

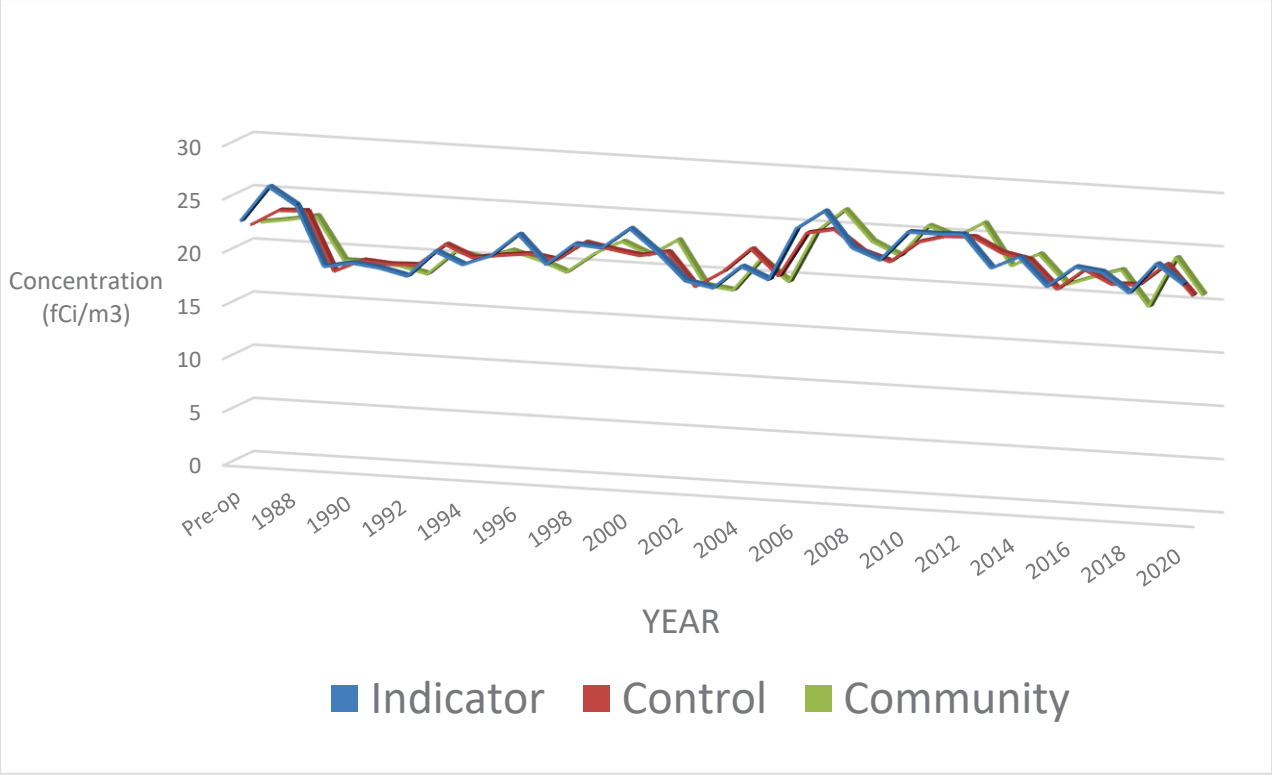
The 2020 annual average weekly gross beta activity at the Girard community station was 20.6 fCi/m3 which was 0.4 fCi/m3 less than the control station average (21.0 fCi/m3). The MDD was not calculated as the control average was higher.

Average Air Gross Beta historical data (Table 3-4) is graphed to show trends associated with a prevalent exposure pathway (Figure 3-1). In general, there was close agreement between the results for the indicator, control and community stations. This close agreement supports the position that the plant was not contributing significantly to the gross beta concentrations in air.

Table 3-4. Average Weekly Gross Beta Air Concentration

Period	Indicator (fCi/m3)	Control (fCi/m3)	Community (fCi/m3)		Period	Indicator (fCi/m3)	Control (fCi/m3)	Community (fCi/m3)
Pre-op	22.9	22.1	21.9		2004	21.6	22.8	21.4
1987	26.3	23.6	22.3		2005	20.5	20.4	19.4
1988	24.7	23.7	22.8		2006	25.5	24.6	24.3
1989	19.1	18.2	18.8		2007	27.3	25.1	26.5
1990	19.6	19.4	18.8		2008	24.0	23.2	23.7
1991	19.3	19.2	18.6		2009	23.0	22.4	22.5
1992	18.7	19.3	18.0		2010	25.8	24.4	25.5
1993	21.2	21.4	20.3		2011	25.8	25.1	24.6
1994	20.1	20.3	19.8		2012	25.9	25.2	26.1
1995	21.1	20.7	20.7		2013	22.9	23.9	22.2
1996	23.3	21.0	20.0		2014	24.1	23.4	23.5
1997	20.6	20.6	19.0		2015	21.5	20.8	20.8
1998	22.7	22.4	20.9		2016	23.5	22.8	21.7
1999	22.5	21.9	22.2		2017	23.2	21.6	22.5
2000	24.5	21.5	21.1		2018	21.4	21.7	19.2
2001	22.4	22.0	22.7		2019	24.3	23.8	24
2002	19.9	18.9	18.6		2020	22.5	21.0	20.6
2003	19.4	20.5	18.3					

Figure 3-1. Historic Average Weekly Gross Beta Air Concentration



3.1.2 Gamma Particulates and Airborne Radioiodine

During 2020, no man-made radionuclides were detected from the gamma isotopic analysis of the quarterly composites of the air particulate filters. Historically, gamma isotopes were detected as a result of offsite events. During pre-operation, Cs-134, Cs-137 and I-131 were occasionally detected. In 1987, Cs-137 was found in one indicator composite at a concentration of 1.7 fCi/m3.

Additionally, I-131 was also detected after the Fukushima incident in 2011, the highest I-131 result in 2011 was 93.8 fCi/m3, which was approximately 10% of the RL. During 2020, no I-131 was detected in the air cartridges at either the indicator or control stations.

3.2 Direct Radiation

In 2020, direct (external) radiation was measured with Optically Stimulated Luminescent dosimeters (OSLD) by placing two OSLD badges at each station. The gamma dose at each station was reported as the average reading of the two badges. The badges were analyzed on a quarterly basis. An inspection was performed near mid-quarter for offsite badges to ensure that the badges were on-station and to replace any missing or damaged badges.

Two direct radiation stations were established in each of the 16 compass sectors, to form two concentric rings. The inner ring (Stations 1 through 16) was located near the plant perimeter as shown in Map A-1 in Appendix A and the outer ring (Stations 17 through 32) was located at a distance of approximately five miles from the plant as shown in Map A-2 in Appendix A. The 16 stations forming the inner ring were designated as the indicator stations. The two ring configuration of stations was established in accordance with NRC Branch Technical Position “An Acceptable Radiological Environmental Monitoring Program”, Revision 1, November 1979. The six control stations (Stations 36, 37, 47, 48, 51 and 52) were located at distances greater than 10 miles from the plant as shown in Map A-3 in Appendix A. Monitored special interest areas include Station 35 at the town of Girard and Station 43 at the employee recreational area (Rec Center). The mean and range values presented in the “Other” column in Table 3-1 includes the outer ring stations (stations 17 through 32) as well as stations 35 and 43.

As provided in Table 3-1, the 2020 average quarterly exposure at the indicator stations (inner ring) was 10.2 mR with a range of 2.2 to 19.3 mR. The indicator station average was 1.1 mR less than the control station average. No MDD was applied because the indicator was less than the control. Over the operational history, the annual average quarterly exposures have shown little variation between the indicator and control stations.

The quarterly exposures acquired at the community/other (outer ring) stations during 2020 ranged from 4.4 to 20.8 mR with an average of 11.4 mR which was 0.1 mR higher than the control

station average. The calculated MDD was 1.0 mR, which indicated that there was no discernible statistical difference between the two data sets.

Average Direct Radiation historical data (Table 3-5) is graphed to show trends associated with this exposure pathway (Figure 3-2). The decrease between 1991 and 1992 values is attributed to a change in Thermoluminescent Dosimeters (TLDs) from Teledyne to Panasonic. It should be noted however that the differences between indicator and control and outer ring values did not change. The increase shown in 2010 reflected issues with the aging Panasonic TLD reader. The close agreement between the station groups has supported the position that the plant was not contributing significantly to direct radiation in the environment.

Figure 3-3 below provides a more detailed view of the 2020 values. The values for the special interest areas (Girard and the Rec Center) detailed below indicate that Plant Vogtle did not significantly contribute to direct radiation at those areas.

Table 3-5. Average Quarterly Exposure from Direct Radiation

Period	Indicator (mR)	Control (mR)	Outer Ring (mR)		Period	Indicator (mR)	Control (mR)	Outer Ring (mR)
Pre-op	15.3	16.5	14.7		2004	12.4	12.2	12.3
1987	17.6	17.9	16.7		2005	12.5	13.2	12.9
1988	16.8	16.1	16.0		2006	13.1	12.9	13.0
1989	17.9	18.4	17.2		2007	13.0	12.5	12.7
1990	16.9	16.6	16.3		2008	13.3	13.0	13.1
1991	16.9	17.1	16.7		2009	13.1	13.6	13.3
1992	12.3	12.5	12.1		2010	16.2	16.7	16.6
1993	12.4	12.4	12.1		2011	13.9	13.9	14.0
1994	12.3	12.1	11.9		2012	14.4	14.3	14.2
1995	12.0	12.5	12.3		2013	13.1	13.2	13.6
1996	12.3	12.2	12.3		2014	11.6	12.3	12.0
1997	13.0	13.0	13.1		2015	12.5	12.3	12.6
1998	12.3	12.7	12.4		2016	11.5	11.5	11.5
1999	13.6	13.5	13.4		2017	11.4	11.4	11.9
2000	13.5	13.6	13.5		2018	10.1	10.6	10.7
2001	12.9	13.0	12.9		2019	10.0	10.3	10.4
2002	12.8	12.9	12.6		2020	10.2	11.3	11.4
2003	12.2	12.5	12.4					

Figure 3-2. Average Quarterly Exposure from Direct Radiation

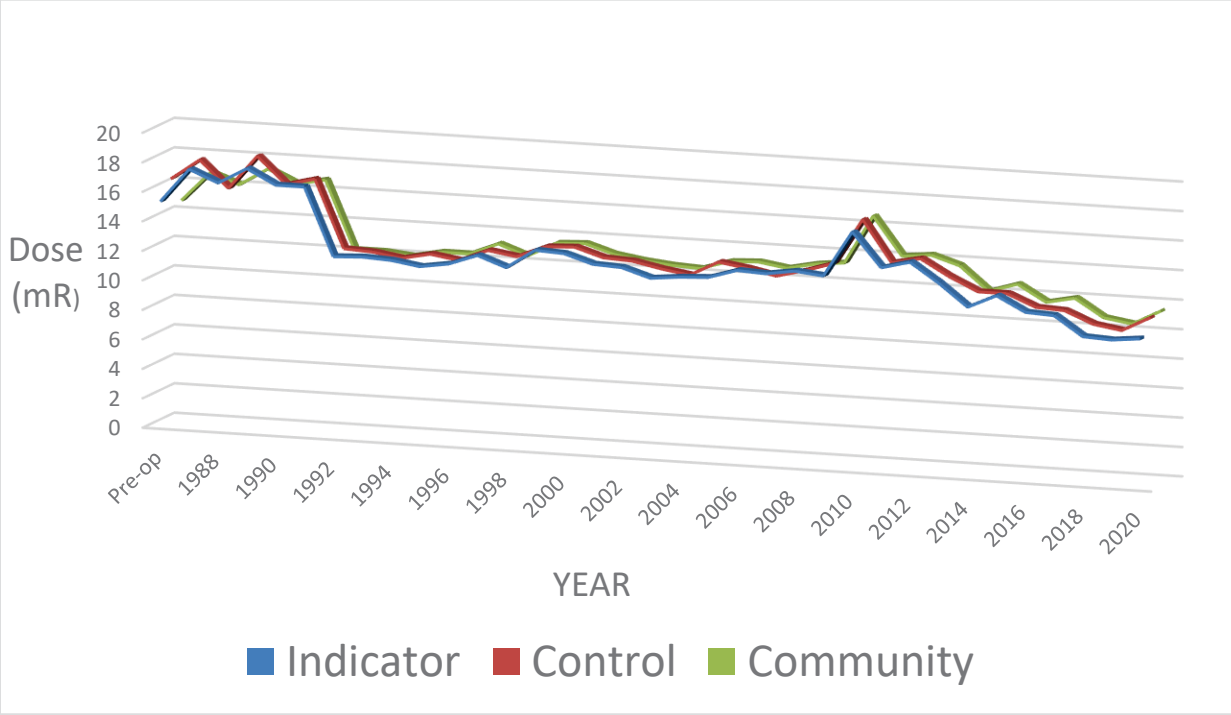
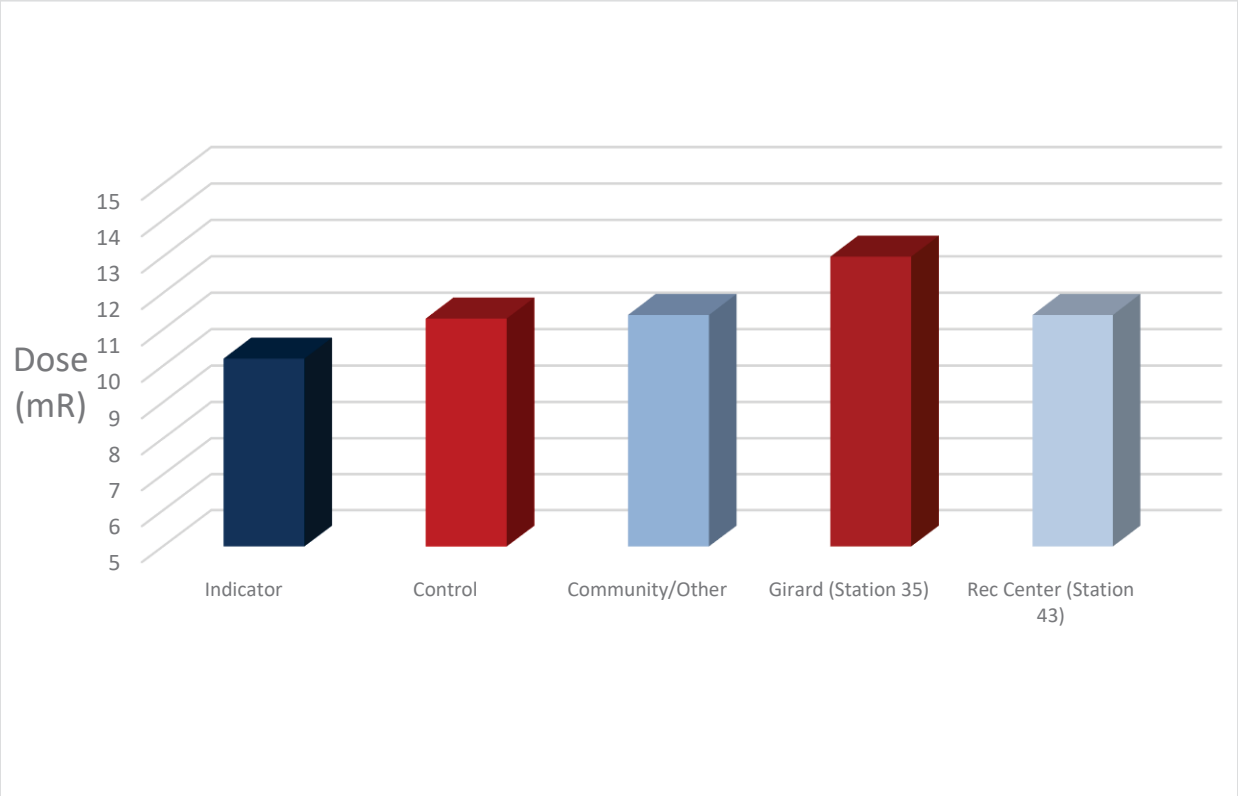


Figure 3-3. 2020 Average Exposure from Direct Radiation



3.3 Biological Media

Cs-137 was the only radionuclide detected in two of the three biological media. As indicated in Figure 3-4, the Cs-137 activity levels were below the respective MDCs and well below that of the respective RLs for each sample media for both the indicator and control stations.

3.3.1 Milk

In accordance with Tables 2-1 and 2-2, milk samples were collected semi-monthly from two locations (until Girard stopped milk production in the fourth quarter): the Girard Dairy (Station 101) which was considered an indicator station because it is approximately 5.5 miles from Vogtle (ideally, a milk indicator station would be less than 5 miles from the plant); and the Milky Way Dairy (Station 102, at 16.0 miles from the plant) is the control location. No milk animal was found within five miles of Plant Vogtle during the 2020 land use census.

Gamma isotopic (including I-131 and Cs-137) analyses were performed on each collected milk sample and there were no detectable results for gamma isotopes other than Cs-137, which was detected in 4 of 21 indicator samples (1.6 pCi/l average) and 1 of 9 control samples (1.3 pCi/l average). The difference was less than the MDD of 0.31 pCi/l, therefore, there was no statistically significant difference between the indicator and control. Figure 3-4 provides the 2020 Cs-137 concentration in milk.

3.3.2 Vegetation

In accordance with Tables 2-1 and 2-2, vegetation samples were collected monthly for gamma isotopic analyses at two indicator locations near the site boundary (Stations 7 and 15) and at one control station located about 17 miles WSW from the plant (Station 37). Historically, the man-made radionuclide Cs-137 was periodically identified in vegetation samples and was generally attributed to offsite sources (such as weapons testing, Chernobyl, and Fukushima). Cs-137 was not detected in any samples collected in 2020 (indicator or control).

While Cs-137 and I-131 were periodically found and Co-60 was discovered once in vegetation samples during pre-operation, the historical trends and the relationship between the indicator and control stations have demonstrated that plant operations were having no adverse impact to the environment. The sample results were consistently well below the MDC and the RL for Cs-137 (80 and 2000 pCi/kg-wet, respectively).

During 2020, there were also no other gamma isotopes detected in any Vogtle REMP vegetation samples.

3.3.3 Fish

Fish samples were collected in accordance with the ODCM (as indicated in Table 2-1). For the semiannual collections, the control location (Station 81) extends from approximately two to seven miles upriver of the plant intake structure, and the indicator location (Station 85) extends from about 1.4 to seven miles downriver of the plant discharge structure.

3.3.3.1 Anadromous Species

In accordance with Table 2-1, for anadromous species, all fish sampled were considered indicator stations. Anadromous fish were sampled once during 2020, on May 20. No radionuclides were detected in the 2020 anadromous fish sample.

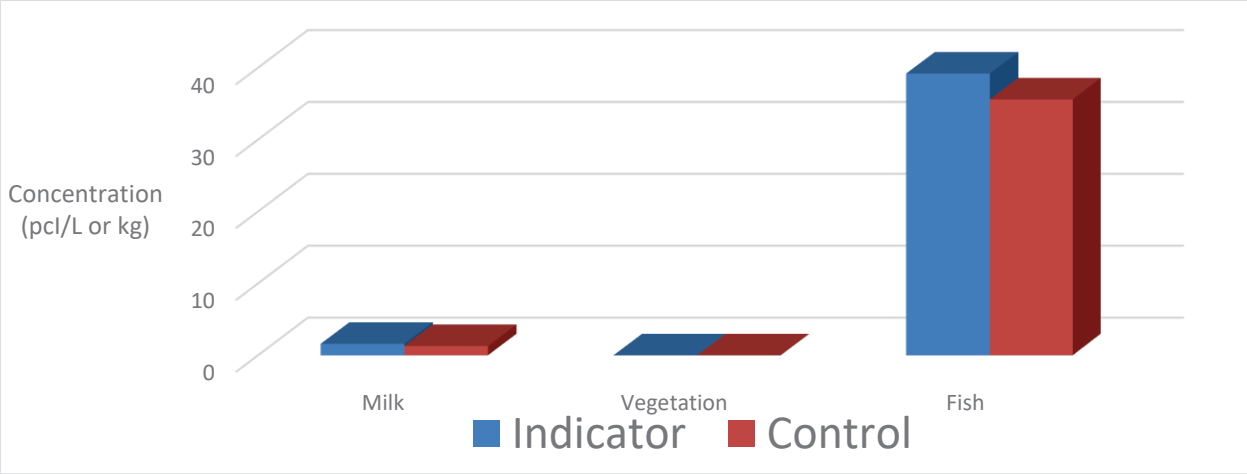
3.3.3.2 Commercially or Recreationally Important Species

As provided in Table 3-1, Cs-137 was found in the semiannual collections of commercially or recreationally important species of fish (for both indicator and control). The indicator station averaged a Cs-137 concentration of 39.2 ranging from 0 to 40.7 pCi/kg-wet (detected in two samples), and 35.6 pCi/kg-wet at the control station (detected in two samples, with a range of 0 to 48.9 pCi/kg-wet). There was no statistically discernible difference between the two since the difference of 3.6 is less than the MDD of 29. All detected values were well below the MDC for Cs-137 in fish (150 pCi/kg-wet). No other gamma nuclides were discovered in 2020.

3.3.4 Biological Media Summary

There were no statistical differences, trends, or anomalies associated with the 2020 biological media samples when compared to historical data. Figure 3-4 below, details the 2020 Cs-137 concentrations in the three media types.

Figure 3-4. 2020 Biological Media Average Cs-137 Concentrations



3.4 Drinking Water

Samples were collected at an upstream control location and at three downstream indicator locations (shown on Map A-3) and further described in Table 2-2.

Monthly water samples were taken near the intake of each water treatment plant (raw drinking water) using automatic composite samplers. Additionally, monthly grab samples of the processed water effluent from the treatment plants (finished drinking water) were collected. Monthly aliquots from the raw and processed drinking water were analyzed for gross beta and gamma isotopic activity. The monthly aliquots were also combined to form quarterly composites in order to be analyzed for tritium.

For 2020, the indicator station average gross beta concentration in the *raw* drinking water was 2.8 pCi/L which was greater than the average gross beta concentration at the control station (2.0 pCi/L), but less than the MDD of 1.0 pCi/L, so there is no statistical difference between the locations. Historically, the close agreement between the gross beta values of the indicator stations and the control station has supported that there was no significant gross beta contribution from the plant effluents. The required MDC for gross beta in water was 4.0 pCi/L; there was no RL for gross beta in water.

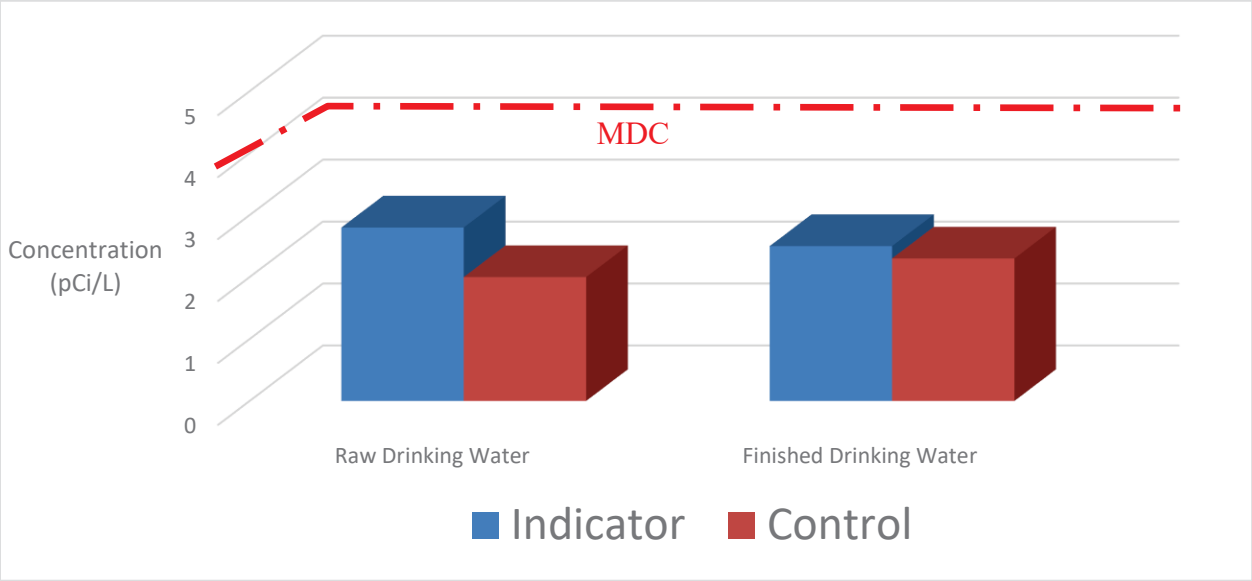
For 2020, the indicator station average gross beta concentration in the *finished* drinking water was 2.5 pCi/L which is more than the average at the control station (2.3 pCi/L), but less than the MDD of 0.7pCi/L, so there is no statistical difference between the locations. Figure 3-5 show the relationship between the average indicator station and average control station for 2020 in comparison to the MDC.

As provided in Table 3-1, there were no positive results during 2020 from the gamma isotopic analysis of the raw and finished drinking water samples.

Regarding tritium, the average raw drinking water indicator concentration was 302 pCi/L which was 165 pCi/L greater than the average concentration found at the control station (137 pCi/L). This difference does exceed the MDD of 129 pCi/L, which would indicate a difference that is statistically discernible, however all detected values were less than the MDC for drinking water of 2,000 pCi/L, and these values were consistent with past results.

The finished drinking water average tritium concentration at the indicator stations during 2020 was 315 pCi/L which was 210 pCi/L greater than the average concentration found at the control station (105 pCi/L). The MDD was calculated at 130 pCi/L between the indicator and control stations, indicating a statistical difference. However, the averages were below the MDC for drinking water and the values were consistent with past results, coupled with the raw sample results, there does not appear to be an impact form plant operations. Figure 3-6 shows the tritium values in the drinking water compared to river water.

Figure 3-5. 2020 Average Gross Beta Concentration in Raw and Finished Drinking Water



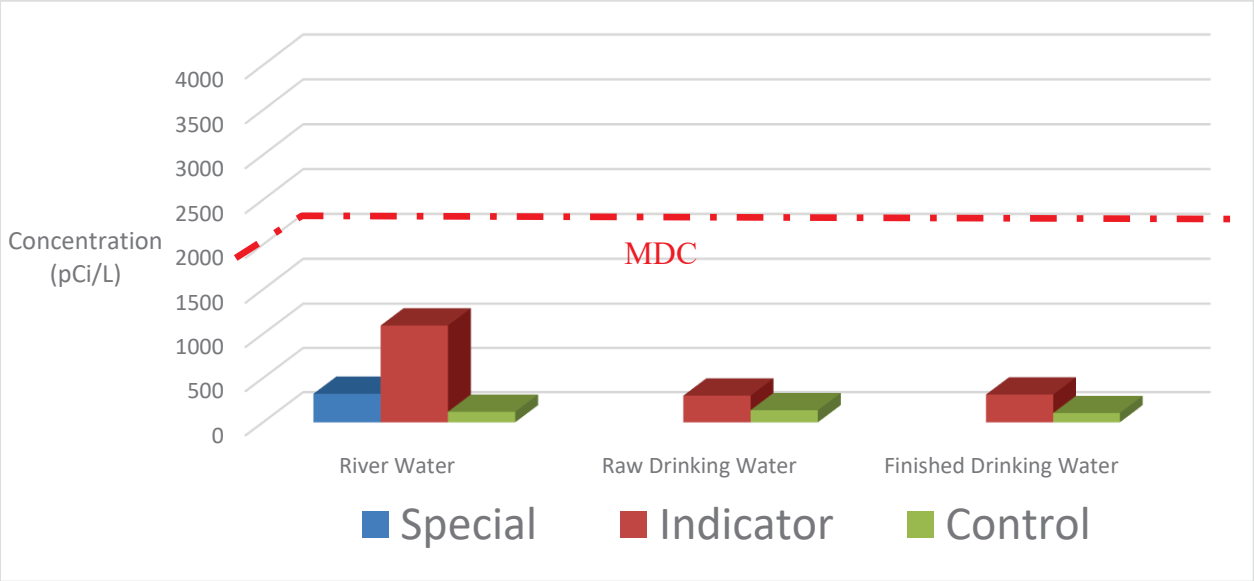
3.5 River Water

Composite river water samples were collected monthly at an upstream control location and at two downstream indicator locations (shown on Map A-3). The details of the sampling protocols are outlined in Tables 2-1 and Table 2-2. A gamma isotopic analysis was conducted on each monthly sample. The monthly aliquots were combined to form quarterly composite samples in order to be analyzed for tritium.

As provided in Table 3-1, there were no positive results during 2020 from the gamma isotopic analysis of the river water samples. Also indicated in Table 3-1, the average tritium concentration found at the indicator station was 1095 pCi/L which was 976 pCi/L greater than the average at the control station (119 pCi/L). The river water tritium MDD was calculated to be 688 pCi/L, so the difference was statistically discernible. This increased tritium could likely be attributed to plant activity from Vogtle and other upstream dischargers. Tritium was released regularly from the plant during normal operations, but always at levels that would not impact the MDC or RL.

At the "Other" river water sampling station (Station 84), the results ranged from 0 pCi/L to 634 pCi/L with an average of 323 pCi/L. The difference between the Station 84 and the control station was 204 pCi/L. The MDD was calculated to be 240 pCi/L, so the difference was not statistically discernible. Additionally, tritium was released regularly from the plant during normal operations, but always at levels that would not impact the MDC or RL. Historically, the relationship between the indicator/control stations and Station 84 has remained consistent. Figure 3-6 below details the 2020 average tritium concentrations across the three water sample types.

Figure 3-6. 2020 Average Tritium Concentrations in River, Raw Drinking, and Finished Drinking Water



3.6 Sediment

Sediment was collected along the shoreline of the Savannah River in the spring and fall at Stations 81 and 83. Station 81 was a control station located about 2.5 miles upriver of the plant intake structure while Station 83 was an indicator station located about 0.6 miles downriver of the plant discharge structure. A gamma isotopic analysis was performed on each sample. The radionuclides detected in 2020 samples were Be-7 and Cs-137. Though Be-7 was detected in sediment, it will not be discussed within this report, because it was not detected in plant effluents and likely represents naturally occurring and/or background conditions.

Cs-137 was identified in both the indicator station (114 pCi/kg-dry) and the control station (120 pCi/kg-dry). Since the control station value was higher, no MDD was calculated and no impact to the environment was indicated.

There were no other radionuclides detected in the 2020 sediment samples.

3.7 Interlaboratory Comparison Program

In accordance with ODCM 4.1.3, GPCEL participated in an Interlaboratory Comparison Program (ICP) which satisfied the requirements of Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979. The ICP included the required determinations (sample medium/radionuclide combinations) included in the REMP.

The ICP was conducted by Eckert & Ziegler Analytics, Inc. (EZA) of Atlanta, Georgia. EZA has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party blind testing program which provided a means to ensure independent checks were performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. EZA supplied the crosscheck samples to GPCEL which performed routine laboratory analyses. Each of the specified analyses was performed three times.

The accuracy of each result was measured by the normalized deviation, which is the ratio of the reported average less the known value to the total error. An investigation was undertaken whenever the absolute value of the normalized deviation is greater than three or whenever the coefficient of variation was greater than 15% for all radionuclides other than Cr-51 and Fe-59. For Cr-51 and Fe-59, an investigation is undertaken when the coefficient of variation exceeded the values shown on Table 3-6 below:

Table 3-6. Interlaboratory Comparison Limits

Nuclide	Concentration *	Total Sample Activity (pCi)	Percent Coefficient of Variation
Cr-51	<300	NA	25
	NA	>1000	25
	>300	<1000	15
Fe-59	<80	NA	25
	>80	NA	15
* For air filters, concentration units are pCi/filter. For all other media, concentration units are pCi/liter (pCi/l).			

As required by ODCM 4.1.3.3 and 7.1.2.3, a summary of the results of the GPCEL's participation in the ICP is provided in Table 3-7 for:

- gross beta and gamma isotopic analyses of an air filter
- gamma isotopic analyses of milk samples
- gross beta, tritium and gamma isotopic analyses of water samples

The 2020 analyses included tritium, gross beta and gamma emitting radio-nuclides in different matrices. The results for the analyses were within acceptable limits for accuracy and no investigations were required.

Table 3-7. Interlaboratory Comparison Summary

Analysis or Radionuclide	Date Prepared	Reported Average	Known Value	Standard Deviation EL	Uncertainty Analytics (3S)	Percent Coefficient of Variation	Normalized Deviation
I-131 ANALYSIS OF AN AIR CARTRIDGE (pCi/cartridge)							
I-131	3/12/2020	95.9	91.2	1.33	1.52	5.21	0.95
GAMMA ISOTOPIC ANALYSIS OF AN AIR FILTER (pCi/filter)							
Ce-141	9/10/2020	108	101	3.14	1.69	6.21	1.07
Co-58		126	121	4.97	2.02	5.89	0.71
Co-60		260	255	6.47	4.26	4.49	0.44
Cr-51		273	251	14.8	4.18	8.22	0.99
Cs-134		144	135	6.33	2.25	5.64	1.06
Cs-137		185	168	4.44	2.81	4.71	1.95
Fe-59		140	135	5.80	2.25	6.40	0.59
Mn-54		137	121	3.53	2.03	4.99	2.40
Zn-65		204	182	15.8	3.03	9.13	1.19
GROSS BETA ANALYSIS OF AN AIR FILTER (PCI/FILTER)							
Gross Beta	6/4/2020	219	235	6.28	3.93	3.74	-1.95
GAMMA ISOTOPIC ANALYSIS OF A MILK SAMPLE (PCI/LITER)							
Co-58	9/10/2020	182	180	4.20	3.00	5.83	0.22
Co-60		381	379	9.46	6.33	4.88	0.09
Cr-51		384	372	16.4	6.21	11.2	0.29
Cs-134		199	200	8.89	3.34	6.27	-0.10
Cs-137		262	250	4.79	4.18	5.16	0.88
Fe-59		202	200	9.38	3.35	7.60	0.11
I-131		99.8	95.0	7.88	1.59	11.4	0.42
Mn-54		189	180	10.3	3.01	7.51	0.66
Zn-65		285	270	14.3	4.51	7.75	0.70
GROSS BETA ANALYSIS OF WATER SAMPLE (PCI/LITER)							
Gross Beta	6/4/2020	275	240	15.0	4.01	6.54	1.96
GAMMA ISOTOPIC ANALYSIS OF WATER SAMPLES (PCI/LITER)							

Table 3-7. Interlaboratory Comparison Summary

Analysis or Radionuclide	Date Prepared	Reported Average	Known Value	Standard Deviation EL	Uncertainty Analytics (3S)	Percent Coefficient of Variation	Normalized Deviation
Ce-141	6/4/2020	104	102	3.62	1.70	7.03	0.30
Co-58		199	198	8.46	3.30	6.18	.12
Co-60		287	259	18.3	4.33	12.68	.77
Cr-51		153	148	3.91	2.47	5.07	0.68
Cs-134		115	105	4.66	1.75	7.15	1.24
Cs-137		98.2	102	4.20	1.71	8.60	-0.45
Fe-59		84.2	80.5	4.46	1.34	8.59	0.51
I-131		146	135	3.63	2.26	6.03	1.23
Mn-54		252	227	8.69	3.80	6.84	1.43
Zn-65		122	117	3.58	1.96	7.03	0.60
TRITIUM ANALYSIS OF WATER SAMPLES (PCI/LITER)							
H-3	9/10/2020	11700	12000	57.74	201	2.08	-1.38
GAMMA ISOTOPIC ANALYSIS OF VEGETATION SAMPLES (PCI/LITER)							
Co-58	6/4/2020	152	159	11.8	2.65	11.2	-0.41
Co-60		291	309	10.4	5.16	6.24	-1.02
Cr-51		431	405	37.8	6.77	19.5	0.31
Cs-134		224	231	9.55	3.86	6.84	-0.45
Cs-137		163	164	7.47	2.74	8.89	-0.07
Fe-59		157	160	10.8	2.67	13.0	-0.15
Mn-54		213	212	13.4	3.53	9.13	0.07
Zn-65		377	355	12.6	5.94	8.71	0.68
Ce-141		192	184	7.53	3.07	8.93	0.44

3.8 Groundwater

To ensure compliance with NEI 07-07 (Industry Ground Water Protection Initiative – Final Guidance Document), Southern Nuclear implemented a groundwater protection program which is procedualized in Nuclear Management Procedure, Radiological Groundwater Protection Program. The procedure contains detailed site-specific monitoring plans, program technical bases, and communications protocol (to ensure that radioactive leaks and spills are addressed and communicated appropriately). In an effort to prevent future leaks of radioactive material to groundwater, SNC plants have established buried piping and tanks inspection programs. No changes were made to the Groundwater Protection Program in 2020.

Plant Vogtle maintained the following wells (Table 3-8), which were sampled at a frequency that satisfied the requirements of NEI 07-07. The analytical results for 2020 were all within regulatory limits specified within this report. Table 3-9 contains the results of the Groundwater Protection Program tritium results (in pCi/L).

Table 3-8. Groundwater Protection Program Locations

Well	Aquifer	Monitoring Purpose
LT-1B	Water Table	NSCW related tank
LT-7A	Water Table	NSCW related tank
LT-12	Water Table	NSCW related tank
LT-13	Water Table	NSCW related tank
802A	Water Table	Southeastern potential leakage
806B	Water Table	Dilution line
808	Water Table	Up gradient; along Pen Branch Fault
R1	Water Table	NSCW related tank; western potential leakage
R2	Water Table	Southern potential leakage
R3	Water Table	Eastern potential leakage
R4	Water Table	Dilution line
R5	Water Table	Dilution line
R6	Water Table	Dilution line
R7	Water Table	Dilution line
R8	Water Table within Sav. River sediments	Dilution line
1014	Tertiary	Up gradient
1015	Water Table	Vertically up gradient
MU-1	Tertiary/Cretaceous	Facility water supply
River	N/A	Surface water

NSCW – Nuclear service cooling water

Table 3-9. Groundwater Protection Program Tritium Results (pCi/L)

Well	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
LT-1B	NS	383	NS	NDM
LT-7A	NS	651	NS	369
LT-12	2040	2610	1940	2260
LT-13	NS	459	NS	263
802A	NS	NS	NS	295
806B	NS	416	NS	250
808	NS	203	NS	NDM
R1	NS	NS	NS	NS
R2	NS	124	NS	268
R3	NS	213	NS	261
R4	NS	162	NS	NDM
R5	NS	161	NS	NDM
R6	NS	254	NS	NDM
R7	NS	NDM	NS	NDM
R8	NS	203	NS	NDM
1014	NS	NDM	NS	NDM
1015	NS	181	NS	97
MU-1	NS	NS	NS	NDM
River	NS	203	NS	NDM

NDM – No Detectable Measurement
NS – Not Sampled

4 SURVEY SUMMARIES

4.1 Land Use Census

In accordance with ODCM 4.1.2, a land use census was conducted from October through December 2020 that circumscribed each of the 16 compass sectors within a five mile radius in order to verify the locations of the nearest radiological receptor. The land use census results are tabulated in Table 4.1. The 2020 land uses census results, shown in Table 4-1, indicated that a revision to the ODCM will not be required.

Table 4-1. Land Use Census Results

Sector	Residence	Milk Animal*	Beef Cattle	Garden**
Distance in Miles to the Nearest Location in Each Sector				
N	1.4	None	None	None
NNE	None	None	None	None
NE	None	None	None	None
ENE	None	None	None	None
E	None	None	None	None
ESE	4.2	None	None	None
SE	4.3	None	4.9	None
SSE	4.7	None	4.7	None
S	4.4	None	None	None
SSW	4.7	None	4.7	None
SW	3.1	None	4.4	None
WSW	2.6	None	2.7	None
W	3.4	None	4.7	4.1
WNW	1.9	None	None	None
NW	1.5	None	1.8	None
NNW	1.5	None	None	None

*A milk animal is a cow or goat producing milk for human consumption.
**A garden of greater than 500 square feet producing broad leaf vegetation.
Note: Land within SRS was excluded from the census.

4.2 Savannah River Survey

A survey of the Savannah River downstream of the plant for approximately 100 miles (approximately river miles 44.7 to 151.2) was conducted on October 2, 2020 to identify any new withdrawal of water from the river for drinking, irrigation, or construction purposes. No new

usage was visually identified. These results were verified with both the Georgia Department of Natural Resources and the South Carolina Department of Health and Environmental Control (SC DEHEC). Each of these agencies public records indicated that no water withdrawal permits for drinking, irrigation, or construction purposes had been issued for this stretch of the Savannah River.

4.3 Meteorological Report Summary

A consultant analyzes the meteorological tower data collected throughout the year and compares it to previous results. In 2020, the meteorological tower results were comparable to previous years, as related to precipitation amounts (49.14”) and wind direction (from west-southwest at 10m, from the west-southwest at 60m). Additionally, the meteorological data meets the quality requirements, therefore, no changes to REMP monitoring locations are warranted.

5 CONCLUSIONS

This report has confirmed SNCs conformance with the requirements of Chapter 4 of the ODCM and the objectives were to:

1) Determine the levels of radiation and the concentrations of radioactivity in the environs and;

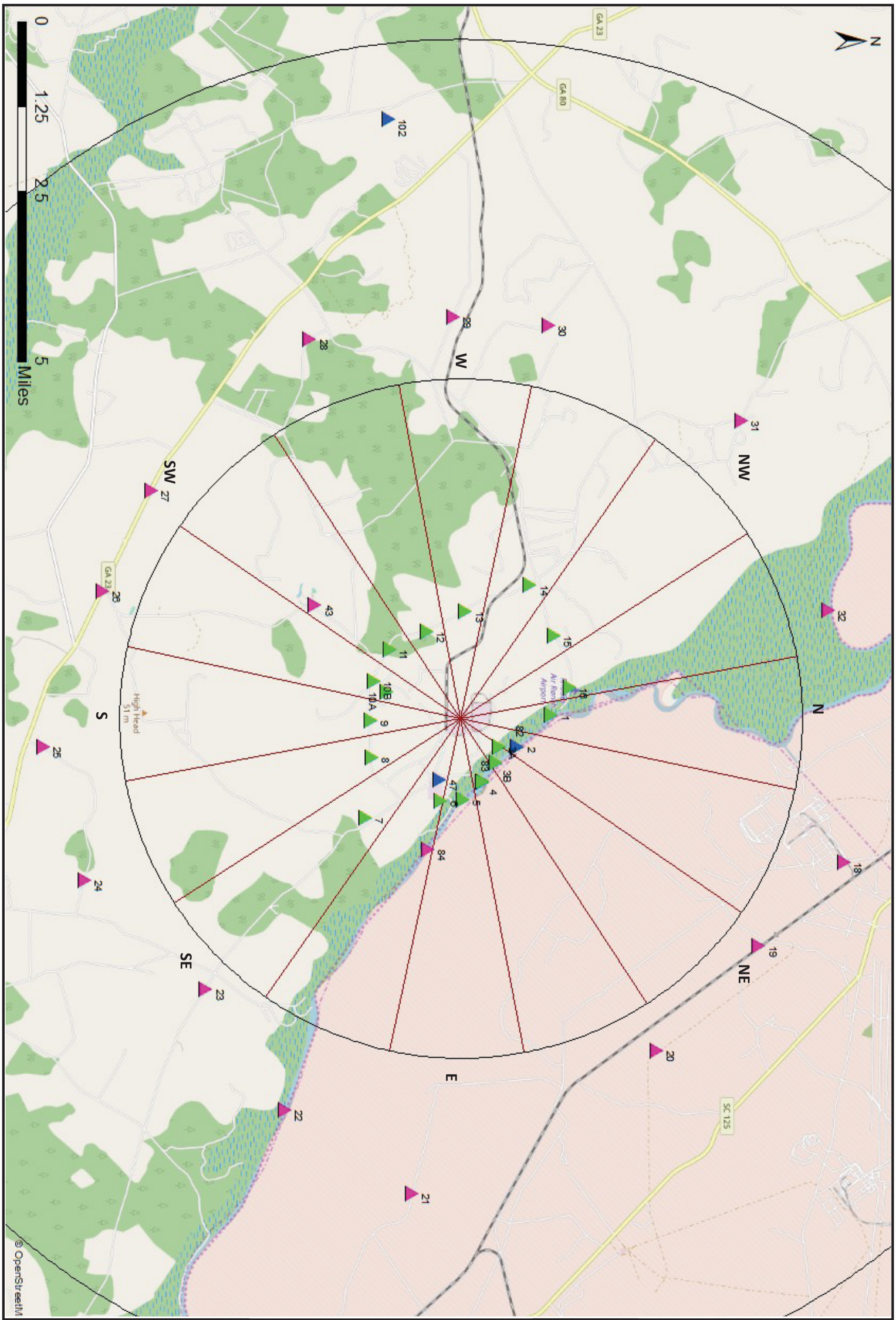
2) Assess the radiological impact (if any) to the environment due to the operation of the VEGP.

Based on the 2020 activities associated with the REMP, SNC offers the following conclusions:

- Samples were collected and there were no deviations or anomalies that negatively affected the quality of the REMP
- Land use census and river survey did not require any changes
- Analytical results were below reporting levels
- These values were consistent with historical results, which indicate no adverse radiological environmental impacts associated with the operation of VEGP

APPENDIX A

Maps



Legend:

Indicator Stations -

Control Stations -

Other Stations -

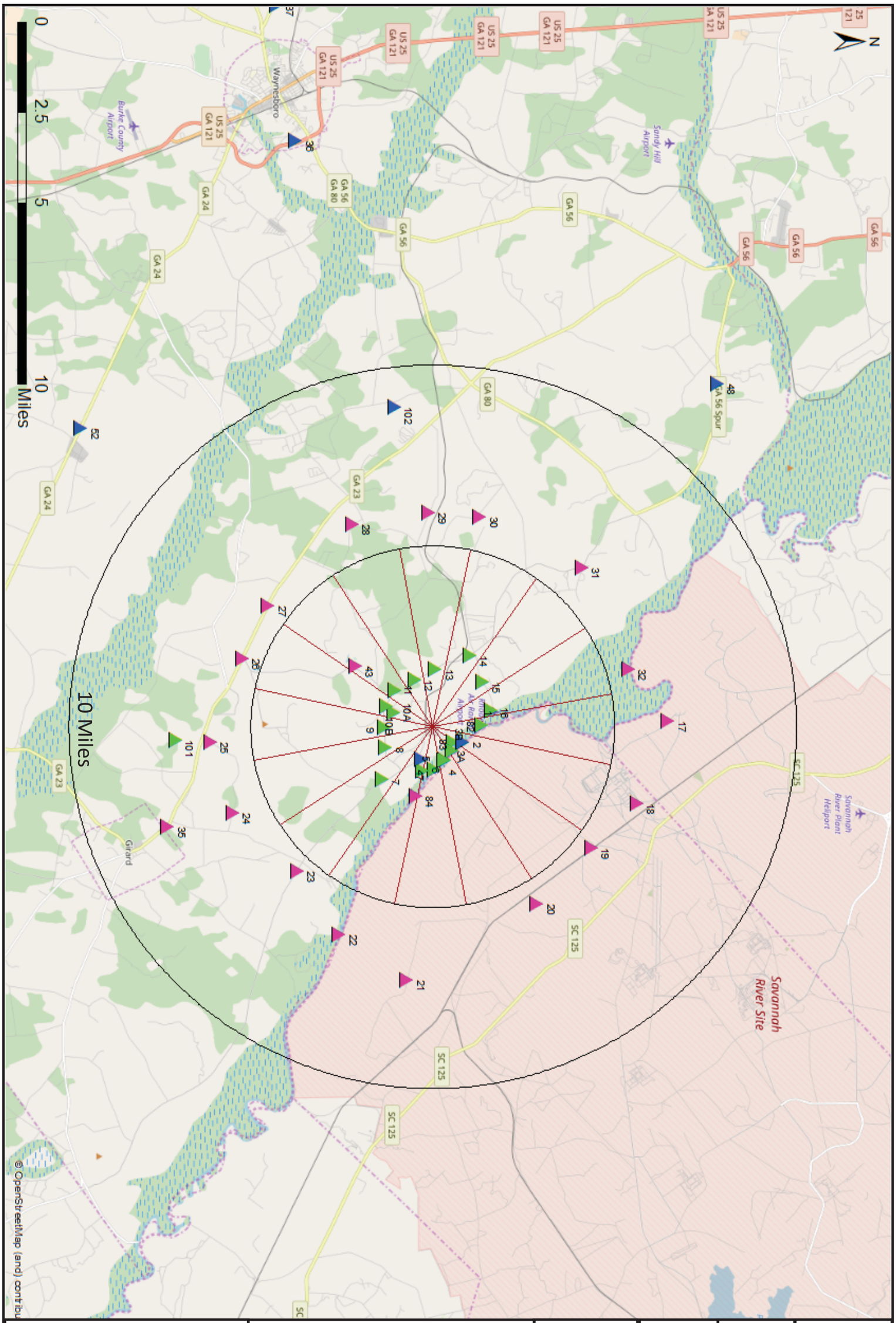
Vogtle Electric Generating Plant

2020 Annual Radiological Environmental Report

REMP Stations in Plant Vicinity

Southern Nuclear

Drawn by:	C. Groce	Appendix A
April 19, 2021		Map A-1



Legend:

Indicator Stations -

Control Stations -

Other Stations -

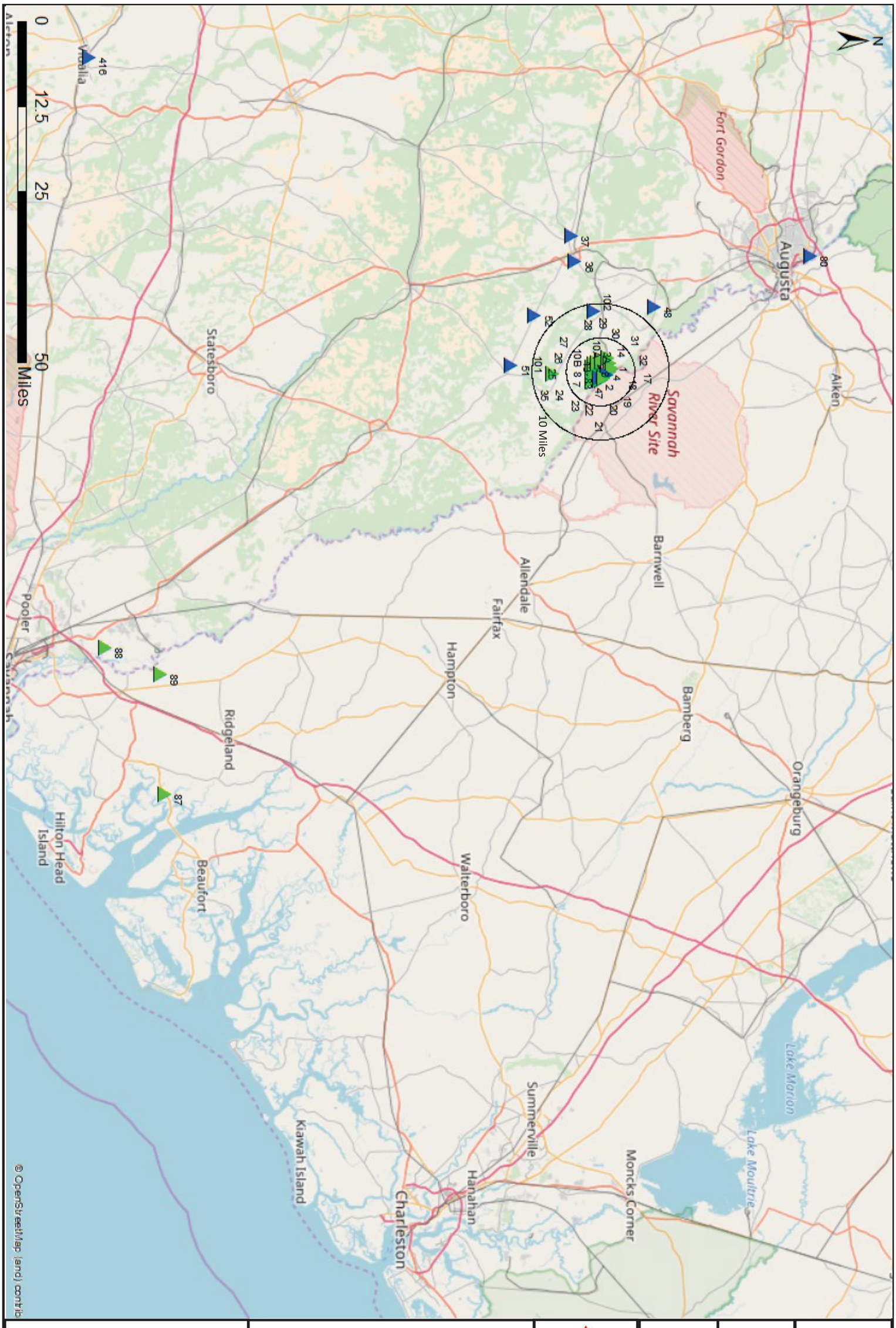
Vogtle Electric Generating Plant

2020 Annual Radiological Environmental Report

REMP Stations within 10 miles

Southern Nuclear

Drawn by:	C. Groce	Appendix A
April 19, 2021		Map A-2



Legend:

Indicator Stations -

Control Stations -

Other Stations -

Vogtle Electric Generating Plant

2020 Annual Radiological Environmental Report

Extended REMP Stations

Southern Nuclear

Drawn by:	C. Groce	Appendix A
April 19, 2021		Map A-3

River
R-8
29
808
MU-1
R-7
806B
R-4
R-5
R-6
27
LT-1B
LT-13
LT-7A
R-1
LT-12
R-3
802A
R-2
805A
852
1014
1015
856

Legend
Surficial Aquifer GWPP Well
Tertiary Aquifer GWPP Well
Non-GWPP Well
GWPP other sample

Vogtle Electric Generating Plant
2020 Annual Radiological Environmental Report
Facility Groundwater Wells

Drawn by: C. Groce
April 19, 2021

Southern Nuclear

Appendix A
Map A-4

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APPENDIX B

Errata

There are no errata for the 2020 reporting year.

APPENDIX C

Data

The following pages contain the individual data points from the 2020 reporting year. The units for the data points varies by media, as follows:

- Airborne Radioiodine and Particulates/Water/Milk – picocuries/liter (pCi/l)
- Sediment/Vegetation/Fish – picocuries/kilogram (pCi/kg)
- Direct Radiation – millirem (mR)

cust_id	profile_name	analyte_name	cust_sample_id	collect_date	result	result_units	lab_sample_id
Vogtle	Water H-3	Tritium	FAUC	1/7/2020	65.7	pCi/L	124164002
Vogtle	Water H-3	Tritium	RAUC	1/7/2020	116	pCi/L	124164001
Vogtle	Water H-3	Tritium	FPUR	1/7/2020	243	pCi/L	124164006
Vogtle	Water H-3	Tritium	RPUR	1/7/2020	111	pCi/L	124164005
Vogtle	Water H-3	Tritium	FPOR	1/7/2020	158	pCi/L	124164004
Vogtle	Water H-3	Tritium	RPOR	1/7/2020	292	pCi/L	124164003
Vogtle	Air Filters	Gross Beta	WAY	1/7/2020	.01588	pCi/m3	123996001
Vogtle	Air Filters	Gross Beta	GIR	1/7/2020	.0193	pCi/m3	123996002
Vogtle	Air Filters	Gross Beta	SIM	1/7/2020	.02103	pCi/m3	123996003
Vogtle	Air Filters	Gross Beta	HAN	1/7/2020	.01944	pCi/m3	123996007
Vogtle	Air Filters	Gross Beta	RRD	1/7/2020	.02021	pCi/m3	123996006
Vogtle	Air Filters	Gross Beta	MET	1/7/2020	.02129	pCi/m3	123996005
Vogtle	Air Filters	Gross Beta	DIS	1/7/2020	.01649	pCi/m3	123996004
Vogtle	Air Filters	Gross Beta	GIR	1/14/2020	.01523	pCi/m3	124123002
Vogtle	Air Filters	Gross Beta	WAY	1/14/2020	.01816	pCi/m3	124123001
Vogtle	Air Filters	Gross Beta	HAN	1/14/2020	.01356	pCi/m3	124123007
Vogtle	Air Filters	Gross Beta	RRD	1/14/2020	.01575	pCi/m3	124123006
Vogtle	Air Filters	Gross Beta	SIM	1/14/2020	.01679	pCi/m3	124123003
Vogtle	Air Filters	Gross Beta	MET	1/14/2020	.01398	pCi/m3	124123005
Vogtle	Air Filters	Gross Beta	DIS	1/14/2020	.01357	pCi/m3	124123004
Vogtle	River Water	Mn-54	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Fe-59	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Co-58	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Co-60	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Zn-65	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Zr-95	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Nb-95	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	I-131	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Cs-134	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Cs-137	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Ba-140	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	La-140	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	Be-7	1512	1/14/2020	0	pCi/L	124116001
Vogtle	River Water	K-40	1512	1/14/2020	0	pCi/L	124116001
Vogtle	Water H-3	Tritium	1512	1/14/2020	80.9	pCi/L	124163001
Vogtle	River Water	Cs-137	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Ba-140	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	La-140	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Be-7	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	K-40	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Mn-54	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Fe-59	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Co-58	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Co-60	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Zn-65	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Zr-95	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Nb-95	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	I-131	1504	1/14/2020	0	pCi/L	124116002
Vogtle	Water H-3	Tritium	1504	1/14/2020	185	pCi/L	124163002
Vogtle	River Water	Cs-134	1504	1/14/2020	0	pCi/L	124116002
Vogtle	River Water	Be-7	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	K-40	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Mn-54	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Fe-59	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Co-58	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Co-60	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Zn-65	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Zr-95	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Nb-95	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	I-131	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Cs-134	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Cs-137	1495	1/14/2020	0	pCi/L	124116003
Vogtle	River Water	Ba-140	1495	1/14/2020	0	pCi/L	124116003
Vogtle	Water H-3	Tritium	1495	1/14/2020	72.9	pCi/L	124163003
Vogtle	River Water	La-140	1495	1/14/2020	0	pCi/L	124116003
Vogtle	Air Filters	Gross Beta	GIR	1/21/2020	.02074	pCi/m3	124180002
Vogtle	Air Filters	Gross Beta	WAY	1/21/2020	.02036	pCi/m3	124180001
Vogtle	Air Filters	Gross Beta	HAN	1/21/2020	.01944	pCi/m3	124180007
Vogtle	Air Filters	Gross Beta	RRD	1/21/2020	.02564	pCi/m3	124180006
Vogtle	Air Filters	Gross Beta	SIM	1/21/2020	.02339	pCi/m3	124180003
Vogtle	Air Filters	Gross Beta	MET	1/21/2020	.02297	pCi/m3	124180005
Vogtle	Air Filters	Gross Beta	DIS	1/21/2020	.02127	pCi/m3	124180004
Vogtle	Air Filters	Gross Beta	GIR	1/28/2020	.02321	pCi/m3	124228002
Vogtle	Air Filters	Gross Beta	WAY	1/28/2020	.02103	pCi/m3	124228001
Vogtle	Vegetation	Cs-134	Waynesboro	1/28/2020	0	pCi/Kg	124231001
Vogtle	Vegetation	Cs-137	Waynesboro	1/28/2020	0	pCi/Kg	124231001
Vogtle	Vegetation	Be-7	Waynesboro	1/28/2020	1888.2	pCi/Kg	124231001
Vogtle	Vegetation	K-40	Waynesboro	1/28/2020	4737.4	pCi/Kg	124231001
Vogtle	Vegetation	I-131	Waynesboro	1/28/2020	0	pCi/Kg	124231001
Vogtle	Air Filters	Gross Beta	HAN	1/28/2020	.02066	pCi/m3	124228007
Vogtle	Vegetation	I-131	Hancock Landing Road	1/28/2020	0	pCi/Kg	124231003
Vogtle	Vegetation	Cs-134	Hancock Landing Road	1/28/2020	0	pCi/Kg	124231003
Vogtle	Vegetation	Cs-137	Hancock Landing Road	1/28/2020	0	pCi/Kg	124231003
Vogtle	Vegetation	Be-7	Hancock Landing Road	1/28/2020	417.9	pCi/Kg	124231003
Vogtle	Vegetation	K-40	Hancock Landing Road	1/28/2020	4741.8	pCi/Kg	124231003
Vogtle	Air Filters	Gross Beta	RRD	1/28/2020	.0208	pCi/m3	124228006

Vogtle	Air Filters	Gross Beta	SIM	1/28/2020	.01954	pCi/m3	124228003
Vogtle	Vegetation	Cs-134	Simulator	1/28/2020	0	pCi/Kg	124231002
Vogtle	Vegetation	Cs-137	Simulator	1/28/2020	0	pCi/Kg	124231002
Vogtle	Vegetation	Be-7	Simulator	1/28/2020	935.35	pCi/Kg	124231002
Vogtle	Vegetation	K-40	Simulator	1/28/2020	5340.4	pCi/Kg	124231002
Vogtle	Vegetation	I-131	Simulator	1/28/2020	0	pCi/Kg	124231002
Vogtle	Air Filters	Gross Beta	MET	1/28/2020	.02087	pCi/m3	124228005
Vogtle	Air Filters	Gross Beta	DIS	1/28/2020	.0195	pCi/m3	124228004
Vogtle	Air Filters	Gross Beta	GIR	2/4/2020	.01998	pCi/m3	124316002
Vogtle	Air Filters	Gross Beta	WAY	2/4/2020	.01951	pCi/m3	124316001
Vogtle	Air Filters	Gross Beta	HAN	2/4/2020	.01956	pCi/m3	124316007
Vogtle	Air Filters	Gross Beta	RRD	2/4/2020	.01977	pCi/m3	124316006
Vogtle	Air Filters	Gross Beta	SIM	2/4/2020	.01998	pCi/m3	124316003
Vogtle	Air Filters	Gross Beta	MET	2/4/2020	.01983	pCi/m3	124316005
Vogtle	Air Filters	Gross Beta	DIS	2/4/2020	.02201	pCi/m3	124316004
Vogtle	River Water	Zn-65	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Zr-95	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Nb-95	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	I-131	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Cs-134	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Cs-137	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Ba-140	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	La-140	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Be-7	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	K-40	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Mn-54	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Fe-59	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Co-58	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Co-60	1512	2/10/2020	0	pCi/L	124346001
Vogtle	River Water	Nb-95	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	I-131	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Cs-134	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Cs-137	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Ba-140	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	La-140	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Be-7	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	K-40	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Mn-54	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Fe-59	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Co-58	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Co-60	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Zn-65	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	Zr-95	1504	2/10/2020	0	pCi/L	124346002
Vogtle	River Water	I-131	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Cs-134	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Cs-137	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Ba-140	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	La-140	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Be-7	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	K-40	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Mn-54	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Fe-59	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Co-58	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Co-60	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Zn-65	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Zr-95	1495	2/10/2020	0	pCi/L	124346003
Vogtle	River Water	Nb-95	1495	2/10/2020	0	pCi/L	124346003
Vogtle	Air Filters	Gross Beta	GIR	2/11/2020	.01852	pCi/m3	124369002
Vogtle	Air Filters	Gross Beta	WAY	2/11/2020	.01803	pCi/m3	124369001
Vogtle	Air Filters	Gross Beta	HAN	2/11/2020	.01734	pCi/m3	124369007
Vogtle	Air Filters	Gross Beta	RRD	2/11/2020	.01756	pCi/m3	124369006
Vogtle	Air Filters	Gross Beta	SIM	2/11/2020	.02025	pCi/m3	124369003
Vogtle	Air Filters	Gross Beta	MET	2/11/2020	.01841	pCi/m3	124369005
Vogtle	Air Filters	Gross Beta	DIS	2/11/2020	.01925	pCi/m3	124369004
Vogtle	Air Filters	Gross Beta	GIR	2/17/2020	.01608	pCi/m3	124421002
Vogtle	Air Filters	Gross Beta	WAY	2/17/2020	.01709	pCi/m3	124421001
Vogtle	Air Filters	Gross Beta	HAN	2/17/2020	.01941	pCi/m3	124421007
Vogtle	Air Filters	Gross Beta	RRD	2/17/2020	.01695	pCi/m3	124421006
Vogtle	Air Filters	Gross Beta	SIM	2/17/2020	.01783	pCi/m3	124421003
Vogtle	Air Filters	Gross Beta	MET	2/17/2020	.0184	pCi/m3	124421005
Vogtle	Air Filters	Gross Beta	DIS	2/17/2020	.01441	pCi/m3	124421004
Vogtle	Air Filters	Gross Beta	WAY	2/25/2020	.01684	pCi/m3	124464001
Vogtle	Vegetation	Cs-134	Waynesboro	2/25/2020	0	pCi/Kg	124466001
Vogtle	Vegetation	Cs-137	Waynesboro	2/25/2020	0	pCi/Kg	124466001
Vogtle	Vegetation	Be-7	Waynesboro	2/25/2020	4447.5	pCi/Kg	124466001
Vogtle	Vegetation	K-40	Waynesboro	2/25/2020	3306.9	pCi/Kg	124466001
Vogtle	Vegetation	I-131	Waynesboro	2/25/2020	0	pCi/Kg	124466001
Vogtle	Air Filters	Gross Beta	GIR	2/25/2020	.01544	pCi/m3	124464002
Vogtle	Vegetation	Cs-134	Simulator	2/25/2020	0	pCi/Kg	124466002
Vogtle	Vegetation	Cs-137	Simulator	2/25/2020	0	pCi/Kg	124466002
Vogtle	Vegetation	Be-7	Simulator	2/25/2020	1476.3	pCi/Kg	124466002
Vogtle	Vegetation	K-40	Simulator	2/25/2020	5153.1	pCi/Kg	124466002
Vogtle	Vegetation	I-131	Simulator	2/25/2020	0	pCi/Kg	124466002
Vogtle	Air Filters	Gross Beta	SIM	2/25/2020	.01747	pCi/m3	124464003
Vogtle	Vegetation	I-131	Hancock Landing Road	2/25/2020	0	pCi/Kg	124466003
Vogtle	Vegetation	Cs-134	Hancock Landing Road	2/25/2020	0	pCi/Kg	124466003
Vogtle	Vegetation	Cs-137	Hancock Landing Road	2/25/2020	0	pCi/Kg	124466003

Vogtle	Vegetation	Be-7	Hancock Landing Road	2/25/2020	1647.6	pCi/Kg	124466003
Vogtle	Vegetation	K-40	Hancock Landing Road	2/25/2020	5145.1	pCi/Kg	124466003
Vogtle	Air Filters	Gross Beta	HAN	2/25/2020	.01975	pCi/m3	124464007
Vogtle	Air Filters	Gross Beta	RRD	2/25/2020	.02047	pCi/m3	124464006
Vogtle	Air Filters	Gross Beta	MET	2/25/2020	.01735	pCi/m3	124464005
Vogtle	Air Filters	Gross Beta	DIS	2/25/2020	.01763	pCi/m3	124464004
Vogtle	Air Filters	Gross Beta	GIR	3/3/2020	.01659	pCi/m3	124523002
Vogtle	Air Filters	Gross Beta	WAY	3/3/2020	.01706	pCi/m3	124523001
Vogtle	Air Filters	Gross Beta	HAN	3/3/2020	.01822	pCi/m3	124523007
Vogtle	Air Filters	Gross Beta	RRD	3/3/2020	.01677	pCi/m3	124523006
Vogtle	Air Filters	Gross Beta	SIM	3/3/2020	.0185	pCi/m3	124523003
Vogtle	Air Filters	Gross Beta	MET	3/3/2020	.01674	pCi/m3	124523005
Vogtle	Air Filters	Gross Beta	DIS	3/3/2020	.01849	pCi/m3	124523004
Vogtle	Milk Gamma	Be-7	Milky Way	3/10/2020	0	pCi/L	124601001
Vogtle	Milk Gamma	La-140	Milky Way	3/10/2020	0	pCi/L	124601001
Vogtle	Milk Gamma	Ba-140	Milky Way	3/10/2020	0	pCi/L	124601001
Vogtle	Milk Gamma	Cs-137	Milky Way	3/10/2020	0	pCi/L	124601001
Vogtle	Milk Gamma	Cs-134	Milky Way	3/10/2020	0	pCi/L	124601001
Vogtle	Milk Gamma	I-131	Milky Way	3/10/2020	0	pCi/L	124601001
Vogtle	Milk Gamma	K-40	Milky Way	3/10/2020	1389.3	pCi/L	124601001
Vogtle	Air Filters	Gross Beta	WAY	3/10/2020	.01847	pCi/m3	124602001
Vogtle	Milk Gamma	I-131	GIR	3/10/2020	0	pCi/L	124601002
Vogtle	Milk Gamma	K-40	GIR	3/10/2020	1434.3	pCi/L	124601002
Vogtle	Milk Gamma	Be-7	GIR	3/10/2020	0	pCi/L	124601002
Vogtle	Milk Gamma	Cs-134	GIR	3/10/2020	0	pCi/L	124601002
Vogtle	Milk Gamma	Cs-137	GIR	3/10/2020	0	pCi/L	124601002
Vogtle	Milk Gamma	Ba-140	GIR	3/10/2020	0	pCi/L	124601002
Vogtle	Milk Gamma	La-140	GIR	3/10/2020	0	pCi/L	124601002
Vogtle	Air Filters	Gross Beta	GIR	3/10/2020	.01566	pCi/m3	124602002
Vogtle	Air Filters	Gross Beta	SIM	3/10/2020	.0159	pCi/m3	124602003
Vogtle	Air Filters	Gross Beta	HAN	3/10/2020	.01762	pCi/m3	124602007
Vogtle	Air Filters	Gross Beta	RRD	3/10/2020	.0188	pCi/m3	124602006
Vogtle	Air Filters	Gross Beta	MET	3/10/2020	.01485	pCi/m3	124602005
Vogtle	Air Filters	Gross Beta	DIS	3/10/2020	.01522	pCi/m3	124602004
Vogtle	Air Filters	Gross Beta	GIR	3/17/2020	.01941	pCi/m3	124683002
Vogtle	Air Filters	Gross Beta	WAY	3/17/2020	.01705	pCi/m3	124683001
Vogtle	Air Filters	Gross Beta	HAN	3/17/2020	.02325	pCi/m3	124683007
Vogtle	Air Filters	Gross Beta	RRD	3/17/2020	.02373	pCi/m3	124683006
Vogtle	Air Filters	Gross Beta	SIM	3/17/2020	.02173	pCi/m3	124683003
Vogtle	Air Filters	Gross Beta	MET	3/17/2020	.02156	pCi/m3	124683005
Vogtle	Air Filters	Gross Beta	DIS	3/17/2020	.0242	pCi/m3	124683004
Vogtle	Air Filters	Gross Beta	GIR	3/24/2020	.01667	pCi/m3	124721002
Vogtle	Milk Gamma	Cs-134	GIR	3/24/2020	0	pCi/L	124720002
Vogtle	Milk Gamma	Cs-137	GIR	3/24/2020	1.5132	pCi/L	124720002
Vogtle	Milk Gamma	Ba-140	GIR	3/24/2020	0	pCi/L	124720002
Vogtle	Milk Gamma	La-140	GIR	3/24/2020	0	pCi/L	124720002
Vogtle	Milk Gamma	Be-7	GIR	3/24/2020	0	pCi/L	124720002
Vogtle	Milk Gamma	K-40	GIR	3/24/2020	1358.2	pCi/L	124720002
Vogtle	Milk Gamma	I-131	GIR	3/24/2020	0	pCi/L	124720002
Vogtle	Milk Gamma	K-40	Milky Way	3/24/2020	1372.8	pCi/L	124720001
Vogtle	Milk Gamma	Be-7	Milky Way	3/24/2020	0	pCi/L	124720001
Vogtle	Milk Gamma	La-140	Milky Way	3/24/2020	0	pCi/L	124720001
Vogtle	Milk Gamma	Ba-140	Milky Way	3/24/2020	0	pCi/L	124720001
Vogtle	Milk Gamma	Cs-137	Milky Way	3/24/2020	0	pCi/L	124720001
Vogtle	Milk Gamma	Cs-134	Milky Way	3/24/2020	0	pCi/L	124720001
Vogtle	Milk Gamma	I-131	Milky Way	3/24/2020	0	pCi/L	124720001
Vogtle	Air Filters	Gross Beta	WAY	3/24/2020	.0181	pCi/m3	124721001
Vogtle	Air Filters	Gross Beta	HAN	3/24/2020	.01669	pCi/m3	124721007
Vogtle	Air Filters	Gross Beta	RRD	3/24/2020	.01902	pCi/m3	124721006
Vogtle	Air Filters	Gross Beta	SIM	3/24/2020	.01693	pCi/m3	124721003
Vogtle	Air Filters	Gross Beta	MET	3/24/2020	.01532	pCi/m3	124721005
Vogtle	Air Filters	Gross Beta	DIS	3/24/2020	.01483	pCi/m3	124721004
Vogtle	Air Qtr Comp	I-131	GIR	3/31/2020	0	pCi/m3	124827002
Vogtle	Air Qtr Comp	Cs-134	GIR	3/31/2020	0	pCi/m3	124827002
Vogtle	Air Qtr Comp	Cs-137	GIR	3/31/2020	0	pCi/m3	124827002
Vogtle	Air Qtr Comp	Be-7	GIR	3/31/2020	.07877	pCi/m3	124827002
Vogtle	Air Filters	Gross Beta	GIR	3/31/2020	.01911	pCi/m3	124783002
Vogtle	Vegetation	Cs-134	Waynesboro	3/31/2020	0	pCi/Kg	124785001
Vogtle	Vegetation	Cs-137	Waynesboro	3/31/2020	0	pCi/Kg	124785001
Vogtle	Vegetation	Be-7	Waynesboro	3/31/2020	305.39	pCi/Kg	124785001
Vogtle	Vegetation	K-40	Waynesboro	3/31/2020	4828.8	pCi/Kg	124785001
Vogtle	Vegetation	I-131	Waynesboro	3/31/2020	0	pCi/Kg	124785001
Vogtle	Air Qtr Comp	Be-7	WAY	3/31/2020	.08741	pCi/m3	124827001
Vogtle	Air Filters	Gross Beta	WAY	3/31/2020	.02316	pCi/m3	124783001
Vogtle	Air Qtr Comp	Cs-137	WAY	3/31/2020	0	pCi/m3	124827001
Vogtle	Air Qtr Comp	Cs-134	WAY	3/31/2020	0	pCi/m3	124827001
Vogtle	Air Qtr Comp	I-131	WAY	3/31/2020	0	pCi/m3	124827001
Vogtle	Vegetation	Cs-134	Hancock Landing Road	3/31/2020	0	pCi/Kg	124785003
Vogtle	Vegetation	Cs-137	Hancock Landing Road	3/31/2020	0	pCi/Kg	124785003
Vogtle	Vegetation	Be-7	Hancock Landing Road	3/31/2020	455.85	pCi/Kg	124785003
Vogtle	Vegetation	K-40	Hancock Landing Road	3/31/2020	5006.2	pCi/Kg	124785003
Vogtle	Vegetation	I-131	Hancock Landing Road	3/31/2020	0	pCi/Kg	124785003
Vogtle	Air Qtr Comp	Be-7	HAN	3/31/2020	.08949	pCi/m3	124827007
Vogtle	Air Filters	Gross Beta	HAN	3/31/2020	.02279	pCi/m3	124783007
Vogtle	Air Qtr Comp	Cs-137	HAN	3/31/2020	0	pCi/m3	124827007
Vogtle	Air Qtr Comp	Cs-134	HAN	3/31/2020	0	pCi/m3	124827007
Vogtle	Air Qtr Comp	I-131	HAN	3/31/2020	0	pCi/m3	124827007

Vogtle	Air Qtr Comp	Be-7	RRD	3/31/2020	.08574	pCi/m3	124827006
Vogtle	Air Qtr Comp	Cs-137	RRD	3/31/2020	0	pCi/m3	124827006
Vogtle	Air Qtr Comp	Cs-134	RRD	3/31/2020	0	pCi/m3	124827006
Vogtle	Air Qtr Comp	I-131	RRD	3/31/2020	0	pCi/m3	124827006
Vogtle	Air Filters	Gross Beta	RRD	3/31/2020	.02149	pCi/m3	124783006
Vogtle	Air Qtr Comp	Be-7	SIM	3/31/2020	.07539	pCi/m3	124827003
Vogtle	Air Filters	Gross Beta	SIM	3/31/2020	.02733	pCi/m3	124783003
Vogtle	Air Qtr Comp	Cs-137	SIM	3/31/2020	0	pCi/m3	124827003
Vogtle	Air Qtr Comp	Cs-134	SIM	3/31/2020	0	pCi/m3	124827003
Vogtle	Air Qtr Comp	I-131	SIM	3/31/2020	0	pCi/m3	124827003
Vogtle	Vegetation	Cs-137	Simulator	3/31/2020	0	pCi/Kg	124785002
Vogtle	Vegetation	Be-7	Simulator	3/31/2020	570.95	pCi/Kg	124785002
Vogtle	Vegetation	K-40	Simulator	3/31/2020	4978.3	pCi/Kg	124785002
Vogtle	Vegetation	I-131	Simulator	3/31/2020	0	pCi/Kg	124785002
Vogtle	Vegetation	Cs-134	Simulator	3/31/2020	0	pCi/Kg	124785002
Vogtle	Air Qtr Comp	Cs-134	MET	3/31/2020	0	pCi/m3	124827005
Vogtle	Air Qtr Comp	Cs-137	MET	3/31/2020	0	pCi/m3	124827005
Vogtle	Air Qtr Comp	Be-7	MET	3/31/2020	.08233	pCi/m3	124827005
Vogtle	Air Filters	Gross Beta	MET	3/31/2020	.02085	pCi/m3	124783005
Vogtle	Air Qtr Comp	I-131	MET	3/31/2020	0	pCi/m3	124827005
Vogtle	Air Qtr Comp	Cs-134	DIS	3/31/2020	0	pCi/m3	124827004
Vogtle	Air Qtr Comp	Be-7	DIS	3/31/2020	.08125	pCi/m3	124827004
Vogtle	Air Filters	Gross Beta	DIS	3/31/2020	.02044	pCi/m3	124783004
Vogtle	Air Qtr Comp	I-131	DIS	3/31/2020	0	pCi/m3	124827004
Vogtle	Air Qtr Comp	Cs-137	DIS	3/31/2020	0	pCi/m3	124827004
Vogtle	Air Filters	Gross Beta	DIS	4/6/2020	.02217	pCi/m3	124859004
Vogtle	Air Filters	Gross Beta	MET	4/6/2020	.01983	pCi/m3	124859005
Vogtle	Air Filters	Gross Beta	SIM	4/6/2020	.02041	pCi/m3	124859003
Vogtle	Air Filters	Gross Beta	RRD	4/6/2020	.02479	pCi/m3	124859006
Vogtle	Air Filters	Gross Beta	HAN	4/6/2020	.02095	pCi/m3	124859007
Vogtle	Air Filters	Gross Beta	WAY	4/6/2020	.02337	pCi/m3	124859001
Vogtle	Air Filters	Gross Beta	GIR	4/6/2020	.02351	pCi/m3	124859002
Vogtle	Water H-3	Tritium	FAUC	4/7/2020	136	pCi/L	124988002
Vogtle	Water H-3	Tritium	RAUC	4/7/2020	-47.1	pCi/L	124988001
Vogtle	Water H-3	Tritium	FPUR	4/7/2020	282	pCi/L	124988006
Vogtle	Water H-3	Tritium	RPUR	4/7/2020	228	pCi/L	124988005
Vogtle	Water H-3	Tritium	FPOR	4/7/2020	243	pCi/L	124988004
Vogtle	Water H-3	Tritium	RPOR	4/7/2020	227	pCi/L	124988003
Vogtle	Air Filters	Gross Beta	GIR	4/14/2020	.02509	pCi/m3	124895002
Vogtle	Milk Gamma	I-131	GIR	4/14/2020	0	pCi/L	124892001
Vogtle	Milk Gamma	Cs-134	GIR	4/14/2020	0	pCi/L	124892001
Vogtle	Milk Gamma	Cs-137	GIR	4/14/2020	0	pCi/L	124892001
Vogtle	Milk Gamma	Ba-140	GIR	4/14/2020	0	pCi/L	124892001
Vogtle	Milk Gamma	La-140	GIR	4/14/2020	0	pCi/L	124892001
Vogtle	Milk Gamma	Be-7	GIR	4/14/2020	0	pCi/L	124892001
Vogtle	Milk Gamma	K-40	GIR	4/14/2020	1460.1	pCi/L	124892001
Vogtle	Air Filters	Gross Beta	WAY	4/14/2020	.02896	pCi/m3	124895001
Vogtle	Air Filters	Gross Beta	HAN	4/14/2020	.02843	pCi/m3	124895007
Vogtle	Air Filters	Gross Beta	RRD	4/14/2020	.02507	pCi/m3	124895006
Vogtle	Air Filters	Gross Beta	SIM	4/14/2020	.02248	pCi/m3	124895003
Vogtle	Air Filters	Gross Beta	MET	4/14/2020	.02819	pCi/m3	124895005
Vogtle	Air Filters	Gross Beta	DIS	4/14/2020	.02967	pCi/m3	124895004
Vogtle	Sediment	Co-60	1533	4/14/2020	0	pCi/Kg	124894002
Vogtle	Sediment	Cs-134	1533	4/14/2020	0	pCi/Kg	124894002
Vogtle	Sediment	Cs-137	1533	4/14/2020	0	pCi/Kg	124894002
Vogtle	Sediment	Be-7	1533	4/14/2020	460.36	pCi/Kg	124894002
Vogtle	Sediment	K-40	1533	4/14/2020	15191	pCi/Kg	124894002
Vogtle	Sediment	Co-58	1533	4/14/2020	0	pCi/Kg	124894002
Vogtle	River Water	Mn-54	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Fe-59	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Co-58	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Co-60	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Zn-65	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Zr-95	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Nb-95	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	I-131	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Cs-134	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Cs-137	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Ba-140	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	La-140	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	Be-7	1512	4/14/2020	0	pCi/L	124893001
Vogtle	River Water	K-40	1512	4/14/2020	0	pCi/L	124893001
Vogtle	Water H-3	Tritium	1512	4/14/2020	-84.4	pCi/L	124987003
Vogtle	Water H-3	Tritium	1504	4/14/2020	1600	pCi/L	124987002
Vogtle	River Water	Fe-59	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Co-58	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Co-60	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Zn-65	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Zr-95	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Nb-95	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	I-131	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Cs-134	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Cs-137	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Ba-140	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	La-140	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	Be-7	1504	4/14/2020	0	pCi/L	124893002
Vogtle	River Water	K-40	1504	4/14/2020	0	pCi/L	124893002

Vogtle	River Water	Mn-54	1504	4/14/2020	0	pCi/L	124893002
Vogtle	Sediment	Be-7	1502	4/14/2020	2572.7	pCi/Kg	124894001
Vogtle	Sediment	Cs-137	1502	4/14/2020	113.96	pCi/Kg	124894001
Vogtle	Sediment	Cs-134	1502	4/14/2020	0	pCi/Kg	124894001
Vogtle	Sediment	Co-60	1502	4/14/2020	0	pCi/Kg	124894001
Vogtle	Sediment	Co-58	1502	4/14/2020	0	pCi/Kg	124894001
Vogtle	Sediment	K-40	1502	4/14/2020	13514	pCi/Kg	124894001
Vogtle	River Water	I-131	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Cs-134	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Cs-137	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Ba-140	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	La-140	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Be-7	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	K-40	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Mn-54	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Fe-59	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Co-58	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Co-60	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Zn-65	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Zr-95	1495	4/14/2020	0	pCi/L	124893003
Vogtle	River Water	Nb-95	1495	4/14/2020	0	pCi/L	124893003
Vogtle	Water H-3	Tritium	1495	4/14/2020	-65.8	pCi/L	124987001
Vogtle	Air Filters	Gross Beta	WAY	4/21/2020	.02501	pCi/m3	124968001
Vogtle	Air Filters	Gross Beta	GIR	4/21/2020	.0213	pCi/m3	124968002
Vogtle	Air Filters	Gross Beta	HAN	4/21/2020	.02166	pCi/m3	124968007
Vogtle	Air Filters	Gross Beta	RRD	4/21/2020	.0236	pCi/m3	124968006
Vogtle	Air Filters	Gross Beta	SIM	4/21/2020	.02086	pCi/m3	124968003
Vogtle	Air Filters	Gross Beta	MET	4/21/2020	.02377	pCi/m3	124968005
Vogtle	Air Filters	Gross Beta	DIS	4/21/2020	.02428	pCi/m3	124968004
Vogtle	Air Filters	Gross Beta	GIR	4/28/2020	.01631	pCi/m3	125037002
Vogtle	Milk Gamma	Be-7	GIR	4/28/2020	0	pCi/L	125035001
Vogtle	Milk Gamma	K-40	GIR	4/28/2020	1497.6	pCi/L	125035001
Vogtle	Milk Gamma	I-131	GIR	4/28/2020	0	pCi/L	125035001
Vogtle	Milk Gamma	Cs-134	GIR	4/28/2020	0	pCi/L	125035001
Vogtle	Milk Gamma	Cs-137	GIR	4/28/2020	1.6164	pCi/L	125035001
Vogtle	Milk Gamma	Ba-140	GIR	4/28/2020	0	pCi/L	125035001
Vogtle	Milk Gamma	La-140	GIR	4/28/2020	0	pCi/L	125035001
Vogtle	Air Filters	Gross Beta	WAY	4/28/2020	.02035	pCi/m3	125037001
Vogtle	Vegetation	Cs-134	Waynesboro	4/28/2020	0	pCi/Kg	125036001
Vogtle	Vegetation	Cs-137	Waynesboro	4/28/2020	0	pCi/Kg	125036001
Vogtle	Vegetation	Be-7	Waynesboro	4/28/2020	541.96	pCi/Kg	125036001
Vogtle	Vegetation	K-40	Waynesboro	4/28/2020	3920.5	pCi/Kg	125036001
Vogtle	Vegetation	I-131	Waynesboro	4/28/2020	0	pCi/Kg	125036001
Vogtle	Air Filters	Gross Beta	HAN	4/28/2020	.02037	pCi/m3	125037007
Vogtle	Vegetation	Cs-134	Hancock Landing Road	4/28/2020	0	pCi/Kg	125036003
Vogtle	Vegetation	Cs-137	Hancock Landing Road	4/28/2020	0	pCi/Kg	125036003
Vogtle	Vegetation	Be-7	Hancock Landing Road	4/28/2020	566.46	pCi/Kg	125036003
Vogtle	Vegetation	K-40	Hancock Landing Road	4/28/2020	5256.8	pCi/Kg	125036003
Vogtle	Vegetation	I-131	Hancock Landing Road	4/28/2020	0	pCi/Kg	125036003
Vogtle	Air Filters	Gross Beta	RRD	4/28/2020	.02551	pCi/m3	125037006
Vogtle	Air Filters	Gross Beta	SIM	4/28/2020	.02106	pCi/m3	125037003
Vogtle	Vegetation	Cs-134	Simulator	4/28/2020	0	pCi/Kg	125036002
Vogtle	Vegetation	Cs-137	Simulator	4/28/2020	0	pCi/Kg	125036002
Vogtle	Vegetation	Be-7	Simulator	4/28/2020	1347.5	pCi/Kg	125036002
Vogtle	Vegetation	K-40	Simulator	4/28/2020	4004.8	pCi/Kg	125036002
Vogtle	Vegetation	I-131	Simulator	4/28/2020	0	pCi/Kg	125036002
Vogtle	Air Filters	Gross Beta	MET	4/28/2020	.01943	pCi/m3	125037005
Vogtle	Air Filters	Gross Beta	DIS	4/28/2020	.02178	pCi/m3	125037004
Vogtle	Air Filters	Gross Beta	GIR	5/5/2020	.01691	pCi/m3	125114002
Vogtle	Air Filters	Gross Beta	WAY	5/5/2020	.02109	pCi/m3	125114001
Vogtle	Air Filters	Gross Beta	HAN	5/5/2020	.02018	pCi/m3	125114007
Vogtle	Air Filters	Gross Beta	RRD	5/5/2020	.02306	pCi/m3	125114006
Vogtle	Air Filters	Gross Beta	SIM	5/5/2020	.02097	pCi/m3	125114003
Vogtle	Air Filters	Gross Beta	MET	5/5/2020	.01662	pCi/m3	125114005
Vogtle	Air Filters	Gross Beta	DIS	5/5/2020	.02361	pCi/m3	125114004
Vogtle	Milk Gamma	K-40	GIR	5/12/2020	1419.4	pCi/L	125164001
Vogtle	Milk Gamma	Be-7	GIR	5/12/2020	0	pCi/L	125164001
Vogtle	Milk Gamma	I-131	GIR	5/12/2020	0	pCi/L	125164001
Vogtle	Milk Gamma	Cs-134	GIR	5/12/2020	0	pCi/L	125164001
Vogtle	Milk Gamma	Cs-137	GIR	5/12/2020	0	pCi/L	125164001
Vogtle	Milk Gamma	Ba-140	GIR	5/12/2020	0	pCi/L	125164001
Vogtle	Milk Gamma	La-140	GIR	5/12/2020	0	pCi/L	125164001
Vogtle	Air Filters	Gross Beta	GIR	5/12/2020	.01724	pCi/m3	125165002
Vogtle	Air Filters	Gross Beta	WAY	5/12/2020	.02456	pCi/m3	125165001
Vogtle	Air Filters	Gross Beta	HAN	5/12/2020	.02581	pCi/m3	125165007
Vogtle	Air Filters	Gross Beta	RRD	5/12/2020	.03001	pCi/m3	125165006
Vogtle	Air Filters	Gross Beta	SIM	5/12/2020	.02377	pCi/m3	125165003
Vogtle	Air Filters	Gross Beta	MET	5/12/2020	.02498	pCi/m3	125165005
Vogtle	Air Filters	Gross Beta	DIS	5/12/2020	.02635	pCi/m3	125165004
Vogtle	River Water	Fe-59	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Co-58	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Co-60	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Zn-65	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Zr-95	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Nb-95	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	I-131	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Cs-134	1512	5/12/2020	0	pCi/L	125163001

Vogtle	River Water	Cs-137	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Ba-140	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	La-140	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Be-7	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	K-40	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Mn-54	1512	5/12/2020	0	pCi/L	125163001
Vogtle	River Water	Nb-95	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	I-131	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Cs-134	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Cs-137	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Ba-140	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	La-140	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Be-7	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Mn-54	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Fe-59	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Co-58	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Co-60	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Zn-65	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Zr-95	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	K-40	1504	5/12/2020	0	pCi/L	125163002
Vogtle	River Water	Nb-95	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	I-131	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Cs-134	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Cs-137	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Ba-140	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	La-140	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Be-7	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	K-40	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Mn-54	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Fe-59	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Co-58	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Co-60	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Zn-65	1495	5/12/2020	0	pCi/L	125163003
Vogtle	River Water	Zr-95	1495	5/12/2020	0	pCi/L	125163003
Vogtle	Air Filters	Gross Beta	DIS	5/18/2020	.01778	pCi/m3	125217004
Vogtle	Air Filters	Gross Beta	MET	5/18/2020	.01736	pCi/m3	125217005
Vogtle	Air Filters	Gross Beta	SIM	5/18/2020	.02156	pCi/m3	125217003
Vogtle	Air Filters	Gross Beta	RRD	5/18/2020	.01598	pCi/m3	125217006
Vogtle	Air Filters	Gross Beta	HAN	5/18/2020	.02352	pCi/m3	125217007
Vogtle	Air Filters	Gross Beta	WAY	5/18/2020	.01855	pCi/m3	125217001
Vogtle	Air Filters	Gross Beta	GIR	5/18/2020	.01439	pCi/m3	125217002
Vogtle	Fish	Fe-59	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	Mn-54	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	K-40	1535 Bass	5/20/2020	3393.6	pCi/Kg	125236001
Vogtle	Fish	Be-7	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	Cs-137	1535 Bass	5/20/2020	48.895	pCi/Kg	125236001
Vogtle	Fish	Cs-134	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	Zn-65	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	Co-60	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	Co-58	1535 Bass	5/20/2020	0	pCi/Kg	125236001
Vogtle	Fish	K-40	1535 Sucker	5/20/2020	3164.5	pCi/Kg	125236002
Vogtle	Fish	Be-7	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Cs-137	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Cs-134	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Zn-65	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Co-60	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Co-58	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Fe-59	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Mn-54	1535 Sucker	5/20/2020	0	pCi/Kg	125236002
Vogtle	Fish	Zn-65	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	Cs-134	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	Cs-137	149-147 Bass	5/20/2020	40.721	pCi/Kg	125236004
Vogtle	Fish	Be-7	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	K-40	149-147 Bass	5/20/2020	3640.6	pCi/Kg	125236004
Vogtle	Fish	Mn-54	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	Fe-59	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	Co-58	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	Co-60	149-147 Bass	5/20/2020	0	pCi/Kg	125236004
Vogtle	Fish	Cs-137	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Cs-134	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Zn-65	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Co-60	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Co-58	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Fe-59	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Mn-54	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	K-40	149-147 Mullet	5/20/2020	3301.9	pCi/Kg	125236003
Vogtle	Fish	Be-7	149-147 Mullet	5/20/2020	0	pCi/Kg	125236003
Vogtle	Fish	Cs-137	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	Cs-134	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	Zn-65	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	Co-60	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	Co-58	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	Fe-59	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	Mn-54	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Fish	K-40	149-147 Sucker	5/20/2020	3557.8	pCi/Kg	125236005
Vogtle	Fish	Be-7	149-147 Sucker	5/20/2020	0	pCi/Kg	125236005
Vogtle	Milk Gamma	Cs-134	GIR	5/26/2020	0	pCi/L	125256001

Vogtle	Milk Gamma	I-131	GIR	5/26/2020	0	pCi/L	125256001
Vogtle	Milk Gamma	K-40	GIR	5/26/2020	1433.9	pCi/L	125256001
Vogtle	Milk Gamma	Cs-137	GIR	5/26/2020	0	pCi/L	125256001
Vogtle	Milk Gamma	Ba-140	GIR	5/26/2020	0	pCi/L	125256001
Vogtle	Milk Gamma	La-140	GIR	5/26/2020	0	pCi/L	125256001
Vogtle	Milk Gamma	Be-7	GIR	5/26/2020	0	pCi/L	125256001
Vogtle	Air Filters	Gross Beta	GIR	5/26/2020	.01234	pCi/m3	125257002
Vogtle	Air Filters	Gross Beta	WAY	5/26/2020	.01928	pCi/m3	125257001
Vogtle	Vegetation	I-131	Waynesboro	5/26/2020	0	pCi/Kg	125259001
Vogtle	Vegetation	Cs-134	Waynesboro	5/26/2020	0	pCi/Kg	125259001
Vogtle	Vegetation	Cs-137	Waynesboro	5/26/2020	0	pCi/Kg	125259001
Vogtle	Vegetation	Be-7	Waynesboro	5/26/2020	433.95	pCi/Kg	125259001
Vogtle	Vegetation	K-40	Waynesboro	5/26/2020	3257.3	pCi/Kg	125259001
Vogtle	Air Filters	Gross Beta	HAN	5/26/2020	.01809	pCi/m3	125257007
Vogtle	Vegetation	I-131	Hancock Landing Road	5/26/2020	0	pCi/Kg	125259003
Vogtle	Vegetation	Cs-134	Hancock Landing Road	5/26/2020	0	pCi/Kg	125259003
Vogtle	Vegetation	Cs-137	Hancock Landing Road	5/26/2020	0	pCi/Kg	125259003
Vogtle	Vegetation	Be-7	Hancock Landing Road	5/26/2020	670.94	pCi/Kg	125259003
Vogtle	Vegetation	K-40	Hancock Landing Road	5/26/2020	2947.9	pCi/Kg	125259003
Vogtle	Air Filters	Gross Beta	RRD	5/26/2020	.02005	pCi/m3	125257006
Vogtle	Air Filters	Gross Beta	SIM	5/26/2020	.0178	pCi/m3	125257003
Vogtle	Vegetation	I-131	Simulator	5/26/2020	0	pCi/Kg	125259002
Vogtle	Vegetation	Cs-134	Simulator	5/26/2020	0	pCi/Kg	125259002
Vogtle	Vegetation	Cs-137	Simulator	5/26/2020	0	pCi/Kg	125259002
Vogtle	Vegetation	Be-7	Simulator	5/26/2020	1111.2	pCi/Kg	125259002
Vogtle	Vegetation	K-40	Simulator	5/26/2020	4731.9	pCi/Kg	125259002
Vogtle	Air Filters	Gross Beta	MET	5/26/2020	.02015	pCi/m3	125257005
Vogtle	Air Filters	Gross Beta	DIS	5/26/2020	.01768	pCi/m3	125257004
Vogtle	Air Filters	Gross Beta	GIR	6/2/2020	.01117	pCi/m3	125326002
Vogtle	Air Filters	Gross Beta	WAY	6/2/2020	.01676	pCi/m3	125326001
Vogtle	Air Filters	Gross Beta	HAN	6/2/2020	.01694	pCi/m3	125326007
Vogtle	Air Filters	Gross Beta	RRD	6/2/2020	.02097	pCi/m3	125326006
Vogtle	Air Filters	Gross Beta	SIM	6/2/2020	.01832	pCi/m3	125326003
Vogtle	Air Filters	Gross Beta	MET	6/2/2020	.01836	pCi/m3	125326005
Vogtle	Air Filters	Gross Beta	DIS	6/2/2020	.01897	pCi/m3	125326004
Vogtle	Milk Gamma	Cs-137	GIR	6/9/2020	0	pCi/L	125378001
Vogtle	Milk Gamma	Ba-140	GIR	6/9/2020	0	pCi/L	125378001
Vogtle	Milk Gamma	La-140	GIR	6/9/2020	0	pCi/L	125378001
Vogtle	Milk Gamma	Be-7	GIR	6/9/2020	0	pCi/L	125378001
Vogtle	Milk Gamma	K-40	GIR	6/9/2020	1390.8	pCi/L	125378001
Vogtle	Milk Gamma	I-131	GIR	6/9/2020	0	pCi/L	125378001
Vogtle	Milk Gamma	Cs-134	GIR	6/9/2020	0	pCi/L	125378001
Vogtle	Air Filters	Gross Beta	GIR	6/9/2020	.0131	pCi/m3	125381002
Vogtle	Air Filters	Gross Beta	WAY	6/9/2020	.01887	pCi/m3	125381001
Vogtle	Air Filters	Gross Beta	HAN	6/9/2020	.01741	pCi/m3	125381007
Vogtle	Air Filters	Gross Beta	RRD	6/9/2020	.02326	pCi/m3	125381006
Vogtle	Air Filters	Gross Beta	SIM	6/9/2020	.02203	pCi/m3	125381003
Vogtle	Air Filters	Gross Beta	MET	6/9/2020	.01806	pCi/m3	125381005
Vogtle	Air Filters	Gross Beta	DIS	6/9/2020	.01831	pCi/m3	125381004
Vogtle	River Water	Cs-137	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Ba-140	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	La-140	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Be-7	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	K-40	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Mn-54	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Fe-59	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Co-58	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Co-60	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Zn-65	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Zr-95	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Nb-95	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	I-131	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Cs-134	1495	6/9/2020	0	pCi/L	125379003
Vogtle	River Water	Co-60	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Zn-65	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Zr-95	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Nb-95	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	I-131	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Cs-134	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Cs-137	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Ba-140	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	La-140	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Be-7	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	K-40	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Mn-54	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Fe-59	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Co-58	1504	6/9/2020	0	pCi/L	125379002
Vogtle	River Water	Mn-54	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Fe-59	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Co-58	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Co-60	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Zn-65	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Zr-95	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Nb-95	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	I-131	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Cs-134	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Cs-137	1512	6/9/2020	0	pCi/L	125379001

Vogtle	River Water	Ba-140	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	La-140	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	Be-7	1512	6/9/2020	0	pCi/L	125379001
Vogtle	River Water	K-40	1512	6/9/2020	0	pCi/L	125379001
Vogtle	Air Filters	Gross Beta	GIR	6/16/2020	.01007	pCi/m3	125432002
Vogtle	Air Filters	Gross Beta	WAY	6/16/2020	.01848	pCi/m3	125432001
Vogtle	Air Filters	Gross Beta	HAN	6/16/2020	.01924	pCi/m3	125432007
Vogtle	Air Filters	Gross Beta	RRD	6/16/2020	.01732	pCi/m3	125432006
Vogtle	Air Filters	Gross Beta	SIM	6/16/2020	.01704	pCi/m3	125432003
Vogtle	Air Filters	Gross Beta	MET	6/16/2020	.01799	pCi/m3	125432005
Vogtle	Air Filters	Gross Beta	DIS	6/16/2020	.01725	pCi/m3	125432004
Vogtle	Milk Gamma	I-131	GIR	6/23/2020	0	pCi/L	125473001
Vogtle	Milk Gamma	K-40	GIR	6/23/2020	1421	pCi/L	125473001
Vogtle	Milk Gamma	Be-7	GIR	6/23/2020	0	pCi/L	125473001
Vogtle	Milk Gamma	Cs-134	GIR	6/23/2020	0	pCi/L	125473001
Vogtle	Milk Gamma	Cs-137	GIR	6/23/2020	0	pCi/L	125473001
Vogtle	Milk Gamma	Ba-140	GIR	6/23/2020	0	pCi/L	125473001
Vogtle	Milk Gamma	La-140	GIR	6/23/2020	0	pCi/L	125473001
Vogtle	Air Filters	Gross Beta	GIR	6/23/2020	.02037	pCi/m3	125489002
Vogtle	Air Filters	Gross Beta	WAY	6/23/2020	.0228	pCi/m3	125489001
Vogtle	Air Filters	Gross Beta	HAN	6/23/2020	.02102	pCi/m3	125489007
Vogtle	Air Filters	Gross Beta	RRD	6/23/2020	.02309	pCi/m3	125489006
Vogtle	Air Filters	Gross Beta	SIM	6/23/2020	.02394	pCi/m3	125489003
Vogtle	Air Filters	Gross Beta	MET	6/23/2020	.01854	pCi/m3	125489005
Vogtle	Air Filters	Gross Beta	DIS	6/23/2020	.02045	pCi/m3	125489004
Vogtle	Air Qtr Comp	I-131	GIR	6/30/2020	0	pCi/m3	125785002
Vogtle	Air Qtr Comp	Cs-134	GIR	6/30/2020	0	pCi/m3	125785002
Vogtle	Air Qtr Comp	Cs-137	GIR	6/30/2020	0	pCi/m3	125785002
Vogtle	Air Qtr Comp	Be-7	GIR	6/30/2020	.05463	pCi/m3	125785002
Vogtle	Air Filters	Gross Beta	GIR	6/30/2020	.02197	pCi/m3	125552002
Vogtle	Air Qtr Comp	Cs-134	WAY	6/30/2020	0	pCi/m3	125785001
Vogtle	Air Qtr Comp	I-131	WAY	6/30/2020	0	pCi/m3	125785001
Vogtle	Air Qtr Comp	Be-7	WAY	6/30/2020	.09133	pCi/m3	125785001
Vogtle	Air Qtr Comp	Cs-137	WAY	6/30/2020	0	pCi/m3	125785001
Vogtle	Air Filters	Gross Beta	WAY	6/30/2020	.02081	pCi/m3	125552001
Vogtle	Vegetation	Cs-134	Waynesboro	6/30/2020	0	pCi/Kg	125551001
Vogtle	Vegetation	Cs-137	Waynesboro	6/30/2020	0	pCi/Kg	125551001
Vogtle	Vegetation	Be-7	Waynesboro	6/30/2020	516.08	pCi/Kg	125551001
Vogtle	Vegetation	K-40	Waynesboro	6/30/2020	5198.5	pCi/Kg	125551001
Vogtle	Vegetation	I-131	Waynesboro	6/30/2020	0	pCi/Kg	125551001
Vogtle	Air Qtr Comp	Cs-134	HAN	6/30/2020	0	pCi/m3	125785007
Vogtle	Air Qtr Comp	I-131	HAN	6/30/2020	0	pCi/m3	125785007
Vogtle	Air Qtr Comp	Be-7	HAN	6/30/2020	.07401	pCi/m3	125785007
Vogtle	Air Qtr Comp	Cs-137	HAN	6/30/2020	0	pCi/m3	125785007
Vogtle	Air Filters	Gross Beta	HAN	6/30/2020	.01817	pCi/m3	125552007
Vogtle	Vegetation	Cs-134	Hancock Landing Road	6/30/2020	0	pCi/Kg	125551003
Vogtle	Vegetation	Cs-137	Hancock Landing Road	6/30/2020	0	pCi/Kg	125551003
Vogtle	Vegetation	Be-7	Hancock Landing Road	6/30/2020	914.4	pCi/Kg	125551003
Vogtle	Vegetation	K-40	Hancock Landing Road	6/30/2020	4015.8	pCi/Kg	125551003
Vogtle	Vegetation	I-131	Hancock Landing Road	6/30/2020	0	pCi/Kg	125551003
Vogtle	Air Qtr Comp	Be-7	RRD	6/30/2020	.07387	pCi/m3	125785006
Vogtle	Air Qtr Comp	Cs-137	RRD	6/30/2020	0	pCi/m3	125785006
Vogtle	Air Qtr Comp	I-131	RRD	6/30/2020	0	pCi/m3	125785006
Vogtle	Air Qtr Comp	Cs-134	RRD	6/30/2020	0	pCi/m3	125785006
Vogtle	Air Filters	Gross Beta	RRD	6/30/2020	.02037	pCi/m3	125552006
Vogtle	Air Filters	Gross Beta	SIM	6/30/2020	.01741	pCi/m3	125552003
Vogtle	Air Qtr Comp	Be-7	SIM	6/30/2020	.09143	pCi/m3	125785003
Vogtle	Air Qtr Comp	I-131	SIM	6/30/2020	0	pCi/m3	125785003
Vogtle	Air Qtr Comp	Cs-134	SIM	6/30/2020	0	pCi/m3	125785003
Vogtle	Air Qtr Comp	Cs-137	SIM	6/30/2020	0	pCi/m3	125785003
Vogtle	Vegetation	Cs-134	Simulator	6/30/2020	0	pCi/Kg	125551002
Vogtle	Vegetation	Cs-137	Simulator	6/30/2020	0	pCi/Kg	125551002
Vogtle	Vegetation	Be-7	Simulator	6/30/2020	255.62	pCi/Kg	125551002
Vogtle	Vegetation	K-40	Simulator	6/30/2020	5235.4	pCi/Kg	125551002
Vogtle	Vegetation	I-131	Simulator	6/30/2020	0	pCi/Kg	125551002
Vogtle	Air Qtr Comp	Be-7	MET	6/30/2020	.1112	pCi/m3	125785005
Vogtle	Air Qtr Comp	Cs-137	MET	6/30/2020	0	pCi/m3	125785005
Vogtle	Air Qtr Comp	Cs-134	MET	6/30/2020	0	pCi/m3	125785005
Vogtle	Air Qtr Comp	I-131	MET	6/30/2020	0	pCi/m3	125785005
Vogtle	Air Filters	Gross Beta	MET	6/30/2020	.01964	pCi/m3	125552005
Vogtle	Air Qtr Comp	Be-7	DIS	6/30/2020	.07614	pCi/m3	125785004
Vogtle	Air Qtr Comp	Cs-137	DIS	6/30/2020	0	pCi/m3	125785004
Vogtle	Air Qtr Comp	I-131	DIS	6/30/2020	0	pCi/m3	125785004
Vogtle	Air Qtr Comp	Cs-134	DIS	6/30/2020	0	pCi/m3	125785004
Vogtle	Air Filters	Gross Beta	DIS	6/30/2020	.02227	pCi/m3	125552004
Vogtle	Air Filters	Gross Beta	DIS	7/6/2020	.01875	pCi/m3	125600004
Vogtle	Air Filters	Gross Beta	MET	7/6/2020	.02342	pCi/m3	125600005
Vogtle	Air Filters	Gross Beta	HAN	7/6/2020	.02692	pCi/m3	125600007
Vogtle	Air Filters	Gross Beta	RRD	7/6/2020	.02799	pCi/m3	125600006
Vogtle	Air Filters	Gross Beta	SIM	7/6/2020	.02618	pCi/m3	125600003
Vogtle	Air Filters	Gross Beta	GIR	7/6/2020	.01931	pCi/m3	125600002
Vogtle	Air Filters	Gross Beta	WAY	7/6/2020	.02107	pCi/m3	125600001
Vogtle	Water H-3	Tritium	RAUC	7/7/2020	0	pCi/L	125730001
Vogtle	Water H-3	Tritium	FAUC	7/7/2020	0	pCi/L	125730002
Vogtle	Water H-3	Tritium	FPUR	7/7/2020	116	pCi/L	125730006
Vogtle	Water H-3	Tritium	RPUR	7/7/2020	225	pCi/L	125730005
Vogtle	Water H-3	Tritium	FPOR	7/7/2020	376	pCi/L	125730004

Vogtle	Water H-3	Tritium	RPOR	7/7/2020	233	pCi/L	125730003
Vogtle	Air Filters	Gross Beta	GIR	7/14/2020	.01856	pCi/m3	125662002
Vogtle	Milk Gamma	Cs-134	GIR	7/14/2020	0	pCi/L	125664001
Vogtle	Milk Gamma	K-40	GIR	7/14/2020	1322.9	pCi/L	125664001
Vogtle	Milk Gamma	Be-7	GIR	7/14/2020	0	pCi/L	125664001
Vogtle	Milk Gamma	La-140	GIR	7/14/2020	0	pCi/L	125664001
Vogtle	Milk Gamma	Ba-140	GIR	7/14/2020	0	pCi/L	125664001
Vogtle	Milk Gamma	Cs-137	GIR	7/14/2020	0	pCi/L	125664001
Vogtle	Milk Gamma	I-131	GIR	7/14/2020	0	pCi/L	125664001
Vogtle	Air Filters	Gross Beta	WAY	7/14/2020	.01654	pCi/m3	125662001
Vogtle	Air Filters	Gross Beta	HAN	7/14/2020	.0176	pCi/m3	125662007
Vogtle	Air Filters	Gross Beta	RRD	7/14/2020	.01988	pCi/m3	125662006
Vogtle	Air Filters	Gross Beta	SIM	7/14/2020	.02127	pCi/m3	125662003
Vogtle	Air Filters	Gross Beta	MET	7/14/2020	.01809	pCi/m3	125662005
Vogtle	Air Filters	Gross Beta	DIS	7/14/2020	.01613	pCi/m3	125662004
Vogtle	River Water	Nb-95	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	I-131	1512	7/14/2020	0	pCi/L	125665001
Vogtle	Water H-3	Tritium	1512	7/14/2020	0	pCi/L	125729001
Vogtle	River Water	Cs-134	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Mn-54	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Fe-59	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Co-58	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Co-60	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Zn-65	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Cs-137	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Ba-140	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	La-140	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Be-7	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	K-40	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Zr-95	1512	7/14/2020	0	pCi/L	125665001
Vogtle	River Water	Be-7	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	K-40	1504	7/14/2020	0	pCi/L	125665002
Vogtle	Water H-3	Tritium	1504	7/14/2020	0	pCi/L	125729002
Vogtle	River Water	Mn-54	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Fe-59	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Co-58	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Co-60	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Zn-65	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Zr-95	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Nb-95	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	I-131	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Cs-134	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Cs-137	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Ba-140	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	La-140	1504	7/14/2020	0	pCi/L	125665002
Vogtle	River Water	Fe-59	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Co-58	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Co-60	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Zn-65	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Zr-95	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Nb-95	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	I-131	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Cs-134	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Cs-137	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Ba-140	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	La-140	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Be-7	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	K-40	1495	7/14/2020	0	pCi/L	125665003
Vogtle	River Water	Mn-54	1495	7/14/2020	0	pCi/L	125665003
Vogtle	Water H-3	Tritium	1495	7/14/2020	263	pCi/L	125729003
Vogtle	Air Filters	Gross Beta	DIS	7/20/2020	.03687	pCi/m3	125788004
Vogtle	Air Filters	Gross Beta	MET	7/20/2020	.03175	pCi/m3	125788005
Vogtle	Air Filters	Gross Beta	SIM	7/20/2020	.03246	pCi/m3	125788003
Vogtle	Air Filters	Gross Beta	RRD	7/20/2020	.0389	pCi/m3	125788006
Vogtle	Air Filters	Gross Beta	HAN	7/20/2020	.04095	pCi/m3	125788007
Vogtle	Air Filters	Gross Beta	GIR	7/20/2020	.03274	pCi/m3	125788002
Vogtle	Air Filters	Gross Beta	WAY	7/20/2020	.03074	pCi/m3	125788001
Vogtle	Milk Gamma	K-40	GIR	7/28/2020	1344.5	pCi/L	125861001
Vogtle	Milk Gamma	Be-7	GIR	7/28/2020	0	pCi/L	125861001
Vogtle	Milk Gamma	La-140	GIR	7/28/2020	0	pCi/L	125861001
Vogtle	Milk Gamma	Ba-140	GIR	7/28/2020	0	pCi/L	125861001
Vogtle	Milk Gamma	Cs-134	GIR	7/28/2020	0	pCi/L	125861001
Vogtle	Milk Gamma	Cs-137	GIR	7/28/2020	0	pCi/L	125861001
Vogtle	Milk Gamma	I-131	GIR	7/28/2020	0	pCi/L	125861001
Vogtle	Air Filters	Gross Beta	GIR	7/28/2020	.01514	pCi/m3	125886002
Vogtle	Air Filters	Gross Beta	WAY	7/28/2020	.01539	pCi/m3	125886001
Vogtle	Vegetation	Cs-134	WAY	7/28/2020	0	pCi/Kg	125863001
Vogtle	Vegetation	Cs-137	WAY	7/28/2020	0	pCi/Kg	125863001
Vogtle	Vegetation	Be-7	WAY	7/28/2020	719.6	pCi/Kg	125863001
Vogtle	Vegetation	K-40	WAY	7/28/2020	4464.2	pCi/Kg	125863001
Vogtle	Vegetation	I-131	WAY	7/28/2020	0	pCi/Kg	125863001
Vogtle	Air Filters	Gross Beta	HAN	7/28/2020	.01351	pCi/m3	125886007
Vogtle	Vegetation	Cs-134	HAN	7/28/2020	0	pCi/Kg	125863003
Vogtle	Vegetation	Cs-137	HAN	7/28/2020	0	pCi/Kg	125863003
Vogtle	Vegetation	Be-7	HAN	7/28/2020	331.72	pCi/Kg	125863003
Vogtle	Vegetation	K-40	HAN	7/28/2020	3151.2	pCi/Kg	125863003
Vogtle	Vegetation	I-131	HAN	7/28/2020	0	pCi/Kg	125863003

Vogtle	Air Filters	Gross Beta	RRD	7/28/2020	.015	pCi/m3	125886006
Vogtle	Air Filters	Gross Beta	SIM	7/28/2020	.01575	pCi/m3	125886003
Vogtle	Vegetation	Cs-134	SIM	7/28/2020	0	pCi/Kg	125863002
Vogtle	Vegetation	Cs-137	SIM	7/28/2020	0	pCi/Kg	125863002
Vogtle	Vegetation	Be-7	SIM	7/28/2020	399.83	pCi/Kg	125863002
Vogtle	Vegetation	K-40	SIM	7/28/2020	5329.1	pCi/Kg	125863002
Vogtle	Vegetation	I-131	SIM	7/28/2020	0	pCi/Kg	125863002
Vogtle	Air Filters	Gross Beta	MET	7/28/2020	.01537	pCi/m3	125886005
Vogtle	Air Filters	Gross Beta	DIS	7/28/2020	.01442	pCi/m3	125886004
Vogtle	Air Filters	Gross Beta	DIS	8/3/2020	.02306	pCi/m3	125965004
Vogtle	Air Filters	Gross Beta	MET	8/3/2020	.02107	pCi/m3	125965005
Vogtle	Air Filters	Gross Beta	SIM	8/3/2020	.02591	pCi/m3	125965003
Vogtle	Air Filters	Gross Beta	RRD	8/3/2020	.02857	pCi/m3	125965006
Vogtle	Air Filters	Gross Beta	HAN	8/3/2020	.01826	pCi/m3	125965007
Vogtle	Air Filters	Gross Beta	WAY	8/3/2020	.01876	pCi/m3	125965001
Vogtle	Air Filters	Gross Beta	GIR	8/3/2020	.02269	pCi/m3	125965002
Vogtle	Milk Gamma	Ba-140	GIR	8/11/2020	0	pCi/L	126047001
Vogtle	Milk Gamma	I-131	GIR	8/11/2020	0	pCi/L	126047001
Vogtle	Milk Gamma	K-40	GIR	8/11/2020	1380.2	pCi/L	126047001
Vogtle	Milk Gamma	Be-7	GIR	8/11/2020	0	pCi/L	126047001
Vogtle	Milk Gamma	La-140	GIR	8/11/2020	0	pCi/L	126047001
Vogtle	Milk Gamma	Cs-134	GIR	8/11/2020	0	pCi/L	126047001
Vogtle	Milk Gamma	Cs-137	GIR	8/11/2020	0	pCi/L	126047001
Vogtle	Air Filters	Gross Beta	GIR	8/11/2020	.02318	pCi/m3	126062002
Vogtle	Air Filters	Gross Beta	WAY	8/11/2020	.01905	pCi/m3	126062001
Vogtle	Air Filters	Gross Beta	HAN	8/11/2020	.02067	pCi/m3	126062007
Vogtle	Air Filters	Gross Beta	RRD	8/11/2020	.02498	pCi/m3	126062006
Vogtle	Air Filters	Gross Beta	SIM	8/11/2020	.02312	pCi/m3	126062003
Vogtle	Air Filters	Gross Beta	MET	8/11/2020	.02175	pCi/m3	126062005
Vogtle	Air Filters	Gross Beta	DIS	8/11/2020	.02256	pCi/m3	126062004
Vogtle	River Water	Zn-65	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Zr-95	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Nb-95	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	I-131	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Cs-134	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Cs-137	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Ba-140	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	La-140	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Be-7	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	K-40	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Mn-54	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Fe-59	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Co-58	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Co-60	1495	8/11/2020	0	pCi/L	126048003
Vogtle	River Water	Be-7	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	K-40	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Mn-54	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Fe-59	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Co-58	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Co-60	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Zn-65	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Zr-95	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	I-131	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Cs-134	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Cs-137	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Ba-140	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	La-140	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	Nb-95	1504	8/11/2020	0	pCi/L	126048002
Vogtle	River Water	K-40	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Mn-54	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Fe-59	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Co-58	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Co-60	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Zn-65	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Zr-95	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Nb-95	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	I-131	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Cs-134	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Cs-137	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Ba-140	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	La-140	1512	8/11/2020	0	pCi/L	126048001
Vogtle	River Water	Be-7	1512	8/11/2020	0	pCi/L	126048001
Vogtle	Air Filters	Gross Beta	GIR	8/18/2020	.02368	pCi/m3	126176002
Vogtle	Air Filters	Gross Beta	WAY	8/18/2020	.01997	pCi/m3	126176001
Vogtle	Air Filters	Gross Beta	HAN	8/18/2020	.0235	pCi/m3	126176007
Vogtle	Air Filters	Gross Beta	RRD	8/18/2020	.02527	pCi/m3	126176006
Vogtle	Air Filters	Gross Beta	SIM	8/18/2020	.02572	pCi/m3	126176003
Vogtle	Air Filters	Gross Beta	MET	8/18/2020	.02475	pCi/m3	126176005
Vogtle	Air Filters	Gross Beta	DIS	8/18/2020	.02463	pCi/m3	126176004
Vogtle	Milk Gamma	K-40	GIR	8/25/2020	1354.8	pCi/L	126277001
Vogtle	Milk Gamma	I-131	GIR	8/25/2020	0	pCi/L	126277001
Vogtle	Milk Gamma	Cs-134	GIR	8/25/2020	0	pCi/L	126277001
Vogtle	Milk Gamma	Cs-137	GIR	8/25/2020	0	pCi/L	126277001
Vogtle	Milk Gamma	Ba-140	GIR	8/25/2020	0	pCi/L	126277001
Vogtle	Milk Gamma	La-140	GIR	8/25/2020	0	pCi/L	126277001
Vogtle	Milk Gamma	Be-7	GIR	8/25/2020	0	pCi/L	126277001
Vogtle	Air Filters	Gross Beta	GIR	8/25/2020	.02052	pCi/m3	126329002

Vogtle	Air Filters	Gross Beta	WAY	8/25/2020	.01932	pCi/m3	126329001
Vogtle	Vegetation	K-40	WAY	8/25/2020	3607.8	pCi/Kg	126328001
Vogtle	Vegetation	Be-7	WAY	8/25/2020	1127.1	pCi/Kg	126328001
Vogtle	Vegetation	Cs-134	WAY	8/25/2020	0	pCi/Kg	126328001
Vogtle	Vegetation	Cs-137	WAY	8/25/2020	0	pCi/Kg	126328001
Vogtle	Vegetation	I-131	WAY	8/25/2020	0	pCi/Kg	126328001
Vogtle	Vegetation	Cs-134	HAN	8/25/2020	0	pCi/Kg	126328003
Vogtle	Vegetation	Be-7	HAN	8/25/2020	543.59	pCi/Kg	126328003
Vogtle	Vegetation	K-40	HAN	8/25/2020	4089.8	pCi/Kg	126328003
Vogtle	Vegetation	Cs-137	HAN	8/25/2020	0	pCi/Kg	126328003
Vogtle	Vegetation	I-131	HAN	8/25/2020	0	pCi/Kg	126328003
Vogtle	Air Filters	Gross Beta	HAN	8/25/2020	.02084	pCi/m3	126329007
Vogtle	Air Filters	Gross Beta	RRD	8/25/2020	.02154	pCi/m3	126329006
Vogtle	Air Filters	Gross Beta	SIM	8/25/2020	.01764	pCi/m3	126329003
Vogtle	Vegetation	I-131	SIM	8/25/2020	0	pCi/Kg	126328002
Vogtle	Vegetation	Cs-134	SIM	8/25/2020	0	pCi/Kg	126328002
Vogtle	Vegetation	Cs-137	SIM	8/25/2020	0	pCi/Kg	126328002
Vogtle	Vegetation	Be-7	SIM	8/25/2020	1303.2	pCi/Kg	126328002
Vogtle	Vegetation	K-40	SIM	8/25/2020	2635.1	pCi/Kg	126328002
Vogtle	Air Filters	Gross Beta	MET	8/25/2020	.01913	pCi/m3	126329005
Vogtle	Air Filters	Gross Beta	DIS	8/25/2020	.01703	pCi/m3	126329004
Vogtle	Air Filters	Gross Beta	DIS	8/31/2020	.01549	pCi/m3	126341004
Vogtle	Air Filters	Gross Beta	MET	8/31/2020	.01763	pCi/m3	126341005
Vogtle	Air Filters	Gross Beta	SIM	8/31/2020	.02021	pCi/m3	126341003
Vogtle	Air Filters	Gross Beta	WAY	8/31/2020	.01477	pCi/m3	126341001
Vogtle	Air Filters	Gross Beta	HAN	8/31/2020	.01745	pCi/m3	126341007
Vogtle	Air Filters	Gross Beta	RRD	8/31/2020	.01768	pCi/m3	126341006
Vogtle	Air Filters	Gross Beta	GIR	8/31/2020	.01701	pCi/m3	126341002
Vogtle	Milk Gamma	Be-7	GIR	9/8/2020	0	pCi/L	126415001
Vogtle	Milk Gamma	La-140	GIR	9/8/2020	0	pCi/L	126415001
Vogtle	Milk Gamma	I-131	GIR	9/8/2020	0	pCi/L	126415001
Vogtle	Milk Gamma	Cs-134	GIR	9/8/2020	0	pCi/L	126415001
Vogtle	Milk Gamma	K-40	GIR	9/8/2020	1287.1	pCi/L	126415001
Vogtle	Milk Gamma	Cs-137	GIR	9/8/2020	0	pCi/L	126415001
Vogtle	Milk Gamma	Ba-140	GIR	9/8/2020	0	pCi/L	126415001
Vogtle	Air Filters	Gross Beta	GIR	9/8/2020	.02505	pCi/m3	126430002
Vogtle	Air Filters	Gross Beta	WAY	9/8/2020	.02772	pCi/m3	126430001
Vogtle	Air Filters	Gross Beta	HAN	9/8/2020	.03125	pCi/m3	126430007
Vogtle	Air Filters	Gross Beta	RRD	9/8/2020	.03543	pCi/m3	126430006
Vogtle	Air Filters	Gross Beta	SIM	9/8/2020	.03184	pCi/m3	126430003
Vogtle	Air Filters	Gross Beta	MET	9/8/2020	.03269	pCi/m3	126430005
Vogtle	Air Filters	Gross Beta	DIS	9/8/2020	.02781	pCi/m3	126430004
Vogtle	River Water	Cs-137	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Ba-140	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	La-140	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Be-7	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	K-40	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Mn-54	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Fe-59	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Co-58	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Co-60	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Zn-65	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Zr-95	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Nb-95	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	I-131	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	Cs-134	1512	9/8/2020	0	pCi/L	126416001
Vogtle	River Water	I-131	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Cs-137	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Ba-140	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	La-140	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Be-7	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Cs-134	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	K-40	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Mn-54	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Fe-59	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Co-58	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Co-60	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Zn-65	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Zr-95	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Nb-95	1504	9/8/2020	0	pCi/L	126416002
Vogtle	River Water	Fe-59	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Co-58	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Co-60	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Zn-65	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Zr-95	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Nb-95	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	I-131	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Cs-134	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Cs-137	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Ba-140	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	La-140	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Be-7	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	K-40	1495	9/8/2020	0	pCi/L	126416003
Vogtle	River Water	Mn-54	1495	9/8/2020	0	pCi/L	126416003
Vogtle	Air Filters	Gross Beta	GIR	9/15/2020	.01551	pCi/m3	126517002
Vogtle	Air Filters	Gross Beta	WAY	9/15/2020	.01602	pCi/m3	126517001
Vogtle	Air Filters	Gross Beta	HAN	9/15/2020	.01611	pCi/m3	126517007

Vogtle	Air Filters	Gross Beta	RRD	9/15/2020	.01576	pCi/m3	126517006
Vogtle	Air Filters	Gross Beta	SIM	9/15/2020	.0192	pCi/m3	126517003
Vogtle	Air Filters	Gross Beta	MET	9/15/2020	.01009	pCi/m3	126517005
Vogtle	Air Filters	Gross Beta	DIS	9/15/2020	.01589	pCi/m3	126517004
Vogtle	Milk Gamma	La-140	GIR	9/22/2020	0	pCi/L	126677001
Vogtle	Milk Gamma	Be-7	GIR	9/22/2020	0	pCi/L	126677001
Vogtle	Milk Gamma	K-40	GIR	9/22/2020	1324.8	pCi/L	126677001
Vogtle	Milk Gamma	I-131	GIR	9/22/2020	0	pCi/L	126677001
Vogtle	Milk Gamma	Cs-134	GIR	9/22/2020	0	pCi/L	126677001
Vogtle	Milk Gamma	Cs-137	GIR	9/22/2020	1.5176	pCi/L	126677001
Vogtle	Milk Gamma	Ba-140	GIR	9/22/2020	0	pCi/L	126677001
Vogtle	Air Filters	Gross Beta	GIR	9/22/2020	.02128	pCi/m3	126678002
Vogtle	Air Filters	Gross Beta	WAY	9/22/2020	.01938	pCi/m3	126678001
Vogtle	Air Filters	Gross Beta	HAN	9/22/2020	.02289	pCi/m3	126678007
Vogtle	Air Filters	Gross Beta	RRD	9/22/2020	.02135	pCi/m3	126678006
Vogtle	Air Filters	Gross Beta	SIM	9/22/2020	.02121	pCi/m3	126678003
Vogtle	Air Filters	Gross Beta	MET	9/22/2020	.02447	pCi/m3	126678005
Vogtle	Air Filters	Gross Beta	DIS	9/22/2020	.0198	pCi/m3	126678004
Vogtle	Air Qtr Comp	I-131	GIR	9/29/2020	0	pCi/m3	126932002
Vogtle	Air Qtr Comp	Cs-134	GIR	9/29/2020	0	pCi/m3	126932002
Vogtle	Air Qtr Comp	Cs-137	GIR	9/29/2020	0	pCi/m3	126932002
Vogtle	Air Qtr Comp	Be-7	GIR	9/29/2020	.06447	pCi/m3	126932002
Vogtle	Air Filters	Gross Beta	GIR	9/29/2020	.01913	pCi/m3	126773002
Vogtle	Air Qtr Comp	I-131	WAY	9/29/2020	0	pCi/m3	126932001
Vogtle	Air Qtr Comp	Cs-134	WAY	9/29/2020	0	pCi/m3	126932001
Vogtle	Air Qtr Comp	Cs-137	WAY	9/29/2020	0	pCi/m3	126932001
Vogtle	Air Filters	Gross Beta	WAY	9/29/2020	.0195	pCi/m3	126773001
Vogtle	Air Qtr Comp	Be-7	WAY	9/29/2020	.06592	pCi/m3	126932001
Vogtle	Vegetation	Be-7	WAY	9/29/2020	688.22	pCi/Kg	126772001
Vogtle	Vegetation	K-40	WAY	9/29/2020	4459.1	pCi/Kg	126772001
Vogtle	Vegetation	Cs-137	WAY	9/29/2020	0	pCi/Kg	126772001
Vogtle	Vegetation	Cs-134	WAY	9/29/2020	0	pCi/Kg	126772001
Vogtle	Vegetation	I-131	WAY	9/29/2020	0	pCi/Kg	126772001
Vogtle	Vegetation	Cs-137	HAN	9/29/2020	0	pCi/Kg	126772003
Vogtle	Vegetation	Cs-134	HAN	9/29/2020	0	pCi/Kg	126772003
Vogtle	Vegetation	Be-7	HAN	9/29/2020	586.18	pCi/Kg	126772003
Vogtle	Vegetation	K-40	HAN	9/29/2020	4501.2	pCi/Kg	126772003
Vogtle	Vegetation	I-131	HAN	9/29/2020	0	pCi/Kg	126772003
Vogtle	Air Qtr Comp	Cs-134	HAN	9/29/2020	0	pCi/m3	126932007
Vogtle	Air Qtr Comp	Cs-137	HAN	9/29/2020	0	pCi/m3	126932007
Vogtle	Air Filters	Gross Beta	HAN	9/29/2020	.02118	pCi/m3	126773007
Vogtle	Air Qtr Comp	Be-7	HAN	9/29/2020	.05306	pCi/m3	126932007
Vogtle	Air Qtr Comp	I-131	HAN	9/29/2020	0	pCi/m3	126932007
Vogtle	Air Filters	Gross Beta	RRD	9/29/2020	.01764	pCi/m3	126773006
Vogtle	Air Qtr Comp	Cs-137	RRD	9/29/2020	0	pCi/m3	126932006
Vogtle	Air Qtr Comp	Cs-134	RRD	9/29/2020	0	pCi/m3	126932006
Vogtle	Air Qtr Comp	I-131	RRD	9/29/2020	0	pCi/m3	126932006
Vogtle	Air Qtr Comp	Be-7	RRD	9/29/2020	.0642	pCi/m3	126932006
Vogtle	Air Qtr Comp	I-131	SIM	9/29/2020	0	pCi/m3	126932003
Vogtle	Air Qtr Comp	Cs-134	SIM	9/29/2020	0	pCi/m3	126932003
Vogtle	Air Qtr Comp	Cs-137	SIM	9/29/2020	0	pCi/m3	126932003
Vogtle	Air Qtr Comp	Be-7	SIM	9/29/2020	.09847	pCi/m3	126932003
Vogtle	Air Filters	Gross Beta	SIM	9/29/2020	.02115	pCi/m3	126773003
Vogtle	Vegetation	Cs-134	SIM	9/29/2020	0	pCi/Kg	126772002
Vogtle	Vegetation	Cs-137	SIM	9/29/2020	0	pCi/Kg	126772002
Vogtle	Vegetation	Be-7	SIM	9/29/2020	2125.8	pCi/Kg	126772002
Vogtle	Vegetation	K-40	SIM	9/29/2020	3152.7	pCi/Kg	126772002
Vogtle	Vegetation	I-131	SIM	9/29/2020	0	pCi/Kg	126772002
Vogtle	Air Filters	Gross Beta	MET	9/29/2020	.01868	pCi/m3	126773005
Vogtle	Air Qtr Comp	Be-7	MET	9/29/2020	.06577	pCi/m3	126932005
Vogtle	Air Qtr Comp	Cs-137	MET	9/29/2020	0	pCi/m3	126932005
Vogtle	Air Qtr Comp	Cs-134	MET	9/29/2020	0	pCi/m3	126932005
Vogtle	Air Qtr Comp	I-131	MET	9/29/2020	0	pCi/m3	126932005
Vogtle	Air Qtr Comp	I-131	DIS	9/29/2020	0	pCi/m3	126932004
Vogtle	Air Filters	Gross Beta	DIS	9/29/2020	.01733	pCi/m3	126773004
Vogtle	Air Qtr Comp	Be-7	DIS	9/29/2020	.08591	pCi/m3	126932004
Vogtle	Air Qtr Comp	Cs-137	DIS	9/29/2020	0	pCi/m3	126932004
Vogtle	Air Qtr Comp	Cs-134	DIS	9/29/2020	0	pCi/m3	126932004
Vogtle	Air Filters	Gross Beta	DIS	10/5/2020	.02544	pCi/m3	126877004
Vogtle	Air Filters	Gross Beta	MET	10/5/2020	.02752	pCi/m3	126877005
Vogtle	Air Filters	Gross Beta	SIM	10/5/2020	.02398	pCi/m3	126877003
Vogtle	Air Filters	Gross Beta	RRD	10/5/2020	.02969	pCi/m3	126877006
Vogtle	Air Filters	Gross Beta	HAN	10/5/2020	.02873	pCi/m3	126877007
Vogtle	Air Filters	Gross Beta	WAY	10/5/2020	.02144	pCi/m3	126877001
Vogtle	Air Filters	Gross Beta	GIR	10/5/2020	.02757	pCi/m3	126877002
Vogtle	Water H-3	Tritium	FPUR	10/6/2020	584	pCi/L	127003006
Vogtle	Water H-3	Tritium	RPUR	10/6/2020	550	pCi/L	127003005
Vogtle	Water H-3	Tritium	FPOR	10/6/2020	517	pCi/L	127003004
Vogtle	Water H-3	Tritium	RAUC	10/6/2020	157	pCi/L	127003001
Vogtle	Water H-3	Tritium	FAUC	10/6/2020	112	pCi/L	127003002
Vogtle	Water H-3	Tritium	RPOR	10/6/2020	549	pCi/L	127003003
Vogtle	Air Filters	Gross Beta	DIS	10/12/2020	.03374	pCi/m3	126960004
Vogtle	Air Filters	Gross Beta	MET	10/12/2020	.03418	pCi/m3	126960005
Vogtle	Air Filters	Gross Beta	SIM	10/12/2020	.03737	pCi/m3	126960003
Vogtle	Air Filters	Gross Beta	RRD	10/12/2020	.03329	pCi/m3	126960006
Vogtle	Air Filters	Gross Beta	HAN	10/12/2020	.03679	pCi/m3	126960007
Vogtle	Air Filters	Gross Beta	GIR	10/12/2020	.03048	pCi/m3	126960002

Vogtle	Air Filters	Gross Beta	WAY	10/12/2020	.02467	pCi/m3	126960001
Vogtle	Milk Gamma	K-40	GIR	10/13/2020	1282.8	pCi/L	126956002
Vogtle	Milk Gamma	Be-7	GIR	10/13/2020	0	pCi/L	126956002
Vogtle	Milk Gamma	I-131	GIR	10/13/2020	0	pCi/L	126956002
Vogtle	Milk Gamma	Cs-134	GIR	10/13/2020	0	pCi/L	126956002
Vogtle	Milk Gamma	Cs-137	GIR	10/13/2020	1.7146	pCi/L	126956002
Vogtle	Milk Gamma	Ba-140	GIR	10/13/2020	0	pCi/L	126956002
Vogtle	Milk Gamma	La-140	GIR	10/13/2020	0	pCi/L	126956002
Vogtle	Milk Gamma	I-131	Milky Way	10/13/2020	0	pCi/L	126956001
Vogtle	Milk Gamma	K-40	Milky Way	10/13/2020	1410.5	pCi/L	126956001
Vogtle	Milk Gamma	Be-7	Milky Way	10/13/2020	0	pCi/L	126956001
Vogtle	Milk Gamma	La-140	Milky Way	10/13/2020	0	pCi/L	126956001
Vogtle	Milk Gamma	Ba-140	Milky Way	10/13/2020	0	pCi/L	126956001
Vogtle	Milk Gamma	Cs-137	Milky Way	10/13/2020	0	pCi/L	126956001
Vogtle	Milk Gamma	Cs-134	Milky Way	10/13/2020	0	pCi/L	126956001
Vogtle	Sediment	K-40	1502	10/13/2020	9685.4	pCi/Kg	126954001
Vogtle	Sediment	Be-7	1502	10/13/2020	0	pCi/Kg	126954001
Vogtle	Sediment	Cs-137	1502	10/13/2020	0	pCi/Kg	126954001
Vogtle	Sediment	Cs-134	1502	10/13/2020	0	pCi/Kg	126954001
Vogtle	Sediment	Co-60	1502	10/13/2020	0	pCi/Kg	126954001
Vogtle	Sediment	Co-58	1502	10/13/2020	0	pCi/Kg	126954001
Vogtle	River Water	Mn-54	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Fe-59	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Co-58	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Co-60	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Zn-65	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Zr-95	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Nb-95	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	I-131	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Cs-134	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Cs-137	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Ba-140	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	La-140	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	Be-7	1512	10/13/2020	0	pCi/L	126955001
Vogtle	River Water	K-40	1512	10/13/2020	0	pCi/L	126955001
Vogtle	Water H-3	Tritium	1512	10/13/2020	178	pCi/L	127005001
Vogtle	River Water	K-40	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Mn-54	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Fe-59	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Co-58	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Co-60	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Zn-65	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Zr-95	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Nb-95	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	I-131	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Cs-134	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Cs-137	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	Ba-140	1504	10/13/2020	0	pCi/L	126955002
Vogtle	River Water	La-140	1504	10/13/2020	0	pCi/L	126955002
Vogtle	Water H-3	Tritium	1504	10/13/2020	1500	pCi/L	127005002
Vogtle	River Water	Be-7	1504	10/13/2020	0	pCi/L	126955002
Vogtle	Sediment	Be-7	1533	10/13/2020	2043.4	pCi/Kg	126954002
Vogtle	Sediment	K-40	1533	10/13/2020	14374	pCi/Kg	126954002
Vogtle	Sediment	Co-58	1533	10/13/2020	55.519	pCi/Kg	126954002
Vogtle	Sediment	Co-60	1533	10/13/2020	0	pCi/Kg	126954002
Vogtle	Sediment	Cs-137	1533	10/13/2020	120.36	pCi/Kg	126954002
Vogtle	Sediment	Cs-134	1533	10/13/2020	0	pCi/Kg	126954002
Vogtle	Water H-3	Tritium	1495	10/13/2020	634	pCi/L	127005003
Vogtle	River Water	Ba-140	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	La-140	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Be-7	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	K-40	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Mn-54	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Fe-59	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Co-58	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Co-60	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Zn-65	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Zr-95	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Nb-95	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	I-131	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Cs-134	1495	10/13/2020	0	pCi/L	126955003
Vogtle	River Water	Cs-137	1495	10/13/2020	0	pCi/L	126955003
Vogtle	Air Filters	Gross Beta	GIR	10/20/2020	.03013	pCi/m3	127027002
Vogtle	Air Filters	Gross Beta	WAY	10/20/2020	.03041	pCi/m3	127027001
Vogtle	Air Filters	Gross Beta	HAN	10/20/2020	.03084	pCi/m3	127027007
Vogtle	Air Filters	Gross Beta	RRD	10/20/2020	.02606	pCi/m3	127027006
Vogtle	Air Filters	Gross Beta	SIM	10/20/2020	.02743	pCi/m3	127027003
Vogtle	Air Filters	Gross Beta	MET	10/20/2020	.03152	pCi/m3	127027005
Vogtle	Air Filters	Gross Beta	DIS	10/20/2020	.02789	pCi/m3	127027004
Vogtle	Milk Gamma	K-40	GIR	10/27/2020	1293.4	pCi/L	127081002
Vogtle	Milk Gamma	I-131	GIR	10/27/2020	0	pCi/L	127081002
Vogtle	Milk Gamma	Cs-134	GIR	10/27/2020	0	pCi/L	127081002
Vogtle	Milk Gamma	Cs-137	GIR	10/27/2020	0	pCi/L	127081002
Vogtle	Milk Gamma	Ba-140	GIR	10/27/2020	0	pCi/L	127081002
Vogtle	Milk Gamma	La-140	GIR	10/27/2020	0	pCi/L	127081002
Vogtle	Milk Gamma	Be-7	GIR	10/27/2020	0	pCi/L	127081002
Vogtle	Air Filters	Gross Beta	GIR	10/27/2020	.01502	pCi/m3	127084002

Vogtle	Milk Gamma	K-40	Milky Way	10/27/2020	1408.3	pCi/L	127081001
Vogtle	Milk Gamma	Be-7	Milky Way	10/27/2020	0	pCi/L	127081001
Vogtle	Milk Gamma	La-140	Milky Way	10/27/2020	0	pCi/L	127081001
Vogtle	Milk Gamma	Ba-140	Milky Way	10/27/2020	0	pCi/L	127081001
Vogtle	Milk Gamma	Cs-137	Milky Way	10/27/2020	0	pCi/L	127081001
Vogtle	Milk Gamma	Cs-134	Milky Way	10/27/2020	0	pCi/L	127081001
Vogtle	Milk Gamma	I-131	Milky Way	10/27/2020	0	pCi/L	127081001
Vogtle	Vegetation	Cs-134	WAY	10/27/2020	0	pCi/Kg	127086001
Vogtle	Vegetation	Cs-137	WAY	10/27/2020	0	pCi/Kg	127086001
Vogtle	Vegetation	Be-7	WAY	10/27/2020	843.12	pCi/Kg	127086001
Vogtle	Vegetation	K-40	WAY	10/27/2020	3005.2	pCi/Kg	127086001
Vogtle	Vegetation	I-131	WAY	10/27/2020	0	pCi/Kg	127086001
Vogtle	Air Filters	Gross Beta	WAY	10/27/2020	.01176	pCi/m3	127084001
Vogtle	Vegetation	I-131	HAN	10/27/2020	0	pCi/Kg	127086003
Vogtle	Vegetation	Cs-134	HAN	10/27/2020	0	pCi/Kg	127086003
Vogtle	Vegetation	Cs-137	HAN	10/27/2020	0	pCi/Kg	127086003
Vogtle	Vegetation	Be-7	HAN	10/27/2020	1300.4	pCi/Kg	127086003
Vogtle	Vegetation	K-40	HAN	10/27/2020	3320.8	pCi/Kg	127086003
Vogtle	Air Filters	Gross Beta	HAN	10/27/2020	.01753	pCi/m3	127084007
Vogtle	Air Filters	Gross Beta	RRD	10/27/2020	.01977	pCi/m3	127084006
Vogtle	Air Filters	Gross Beta	SIM	10/27/2020	.01252	pCi/m3	127084003
Vogtle	Vegetation	Cs-137	SIM	10/27/2020	0	pCi/Kg	127086002
Vogtle	Vegetation	Be-7	SIM	10/27/2020	1510.8	pCi/Kg	127086002
Vogtle	Vegetation	I-131	SIM	10/27/2020	0	pCi/Kg	127086002
Vogtle	Vegetation	Cs-134	SIM	10/27/2020	0	pCi/Kg	127086002
Vogtle	Vegetation	K-40	SIM	10/27/2020	3938	pCi/Kg	127086002
Vogtle	Air Filters	Gross Beta	MET	10/27/2020	.01247	pCi/m3	127084005
Vogtle	Air Filters	Gross Beta	DIS	10/27/2020	.01849	pCi/m3	127084004
Vogtle	Fish	Cs-137	1535 Bass	10/27/2020	28.228	pCi/Kg	127078003
Vogtle	Fish	Mn-54	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	Zn-65	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	Co-60	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	Co-58	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	Fe-59	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	K-40	1535 Bass	10/27/2020	3496.7	pCi/Kg	127078003
Vogtle	Fish	Be-7	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	Cs-134	1535 Bass	10/27/2020	0	pCi/Kg	127078003
Vogtle	Fish	Mn-54	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Fe-59	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Co-58	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Co-60	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Zn-65	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Cs-134	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Cs-137	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	Be-7	1535 Bluegill	10/27/2020	0	pCi/Kg	127078004
Vogtle	Fish	K-40	1535 Bluegill	10/27/2020	3501.9	pCi/Kg	127078004
Vogtle	Fish	Mn-54	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Fe-59	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Co-58	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Co-60	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Zn-65	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Cs-134	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Cs-137	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	Be-7	1535 Carp	10/27/2020	0	pCi/Kg	127078001
Vogtle	Fish	K-40	1535 Carp	10/27/2020	3238.6	pCi/Kg	127078001
Vogtle	Fish	Co-60	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Cs-137	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Cs-134	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	K-40	1535 Sucker	10/27/2020	3368.1	pCi/Kg	127078002
Vogtle	Fish	Be-7	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Co-58	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Fe-59	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Mn-54	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Zn-65	1535 Sucker	10/27/2020	0	pCi/Kg	127078002
Vogtle	Fish	Co-60	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	Cs-134	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	Cs-137	149-146 Catfish	10/27/2020	37.648	pCi/Kg	127078008
Vogtle	Fish	Be-7	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	K-40	149-146 Catfish	10/27/2020	2934.2	pCi/Kg	127078008
Vogtle	Fish	Zn-65	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	Mn-54	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	Fe-59	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	Co-58	149-146 Catfish	10/27/2020	0	pCi/Kg	127078008
Vogtle	Fish	Fe-59	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Co-58	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Co-60	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Zn-65	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Cs-134	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Cs-137	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Be-7	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	K-40	149-146 Crappie	10/27/2020	3107.9	pCi/Kg	127078006
Vogtle	Fish	Mn-54	149-146 Crappie	10/27/2020	0	pCi/Kg	127078006
Vogtle	Fish	Fe-59	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	Co-58	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	Co-60	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	Zn-65	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	Cs-134	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007

Vogtle	Fish	Cs-137	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	Be-7	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	K-40	149-146 Mullet	10/27/2020	3286.1	pCi/Kg	127078007
Vogtle	Fish	Mn-54	149-146 Mullet	10/27/2020	0	pCi/Kg	127078007
Vogtle	Fish	Fe-59	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	Co-58	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	Co-60	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	Zn-65	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	Cs-134	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	Cs-137	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	Be-7	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Fish	K-40	149-146 Sucker	10/27/2020	3256.1	pCi/Kg	127078005
Vogtle	Fish	Mn-54	149-146 Sucker	10/27/2020	0	pCi/Kg	127078005
Vogtle	Air Filters	Gross Beta	DIS	11/2/2020	.02153	pCi/m3	127142004
Vogtle	Air Filters	Gross Beta	MET	11/2/2020	.02364	pCi/m3	127142005
Vogtle	Air Filters	Gross Beta	SIM	11/2/2020	.02126	pCi/m3	127142003
Vogtle	Air Filters	Gross Beta	RRD	11/2/2020	.02222	pCi/m3	127142006
Vogtle	Air Filters	Gross Beta	HAN	11/2/2020	.02119	pCi/m3	127142007
Vogtle	Air Filters	Gross Beta	GIR	11/2/2020	.02416	pCi/m3	127142002
Vogtle	Air Filters	Gross Beta	WAY	11/2/2020	.02045	pCi/m3	127142001
Vogtle	Milk Gamma	Cs-134	GIR	11/10/2020	0	pCi/L	127223002
Vogtle	Milk Gamma	I-131	GIR	11/10/2020	0	pCi/L	127223002
Vogtle	Milk Gamma	K-40	GIR	11/10/2020	1228.2	pCi/L	127223002
Vogtle	Milk Gamma	Be-7	GIR	11/10/2020	0	pCi/L	127223002
Vogtle	Milk Gamma	La-140	GIR	11/10/2020	0	pCi/L	127223002
Vogtle	Milk Gamma	Ba-140	GIR	11/10/2020	0	pCi/L	127223002
Vogtle	Milk Gamma	Cs-137	GIR	11/10/2020	0	pCi/L	127223002
Vogtle	Air Filters	Gross Beta	GIR	11/10/2020	.02077	pCi/m3	127224002
Vogtle	Air Filters	Gross Beta	WAY	11/10/2020	.0202	pCi/m3	127224001
Vogtle	Milk Gamma	K-40	Milky Way	11/10/2020	1507.6	pCi/L	127223001
Vogtle	Milk Gamma	Be-7	Milky Way	11/10/2020	0	pCi/L	127223001
Vogtle	Milk Gamma	La-140	Milky Way	11/10/2020	0	pCi/L	127223001
Vogtle	Milk Gamma	Ba-140	Milky Way	11/10/2020	0	pCi/L	127223001
Vogtle	Milk Gamma	Cs-137	Milky Way	11/10/2020	0	pCi/L	127223001
Vogtle	Milk Gamma	Cs-134	Milky Way	11/10/2020	0	pCi/L	127223001
Vogtle	Milk Gamma	I-131	Milky Way	11/10/2020	0	pCi/L	127223001
Vogtle	Air Filters	Gross Beta	HAN	11/10/2020	.02033	pCi/m3	127224007
Vogtle	Air Filters	Gross Beta	RRD	11/10/2020	.01973	pCi/m3	127224006
Vogtle	Air Filters	Gross Beta	SIM	11/10/2020	.02267	pCi/m3	127224003
Vogtle	Air Filters	Gross Beta	MET	11/10/2020	.02057	pCi/m3	127224005
Vogtle	Air Filters	Gross Beta	DIS	11/10/2020	.0195	pCi/m3	127224004
Vogtle	Air Filters	Gross Beta	GIR	11/17/2020	.01763	pCi/m3	127348002
Vogtle	Air Filters	Gross Beta	WAY	11/17/2020	.01742	pCi/m3	127348001
Vogtle	Air Filters	Gross Beta	HAN	11/17/2020	.01867	pCi/m3	127348007
Vogtle	Air Filters	Gross Beta	RRD	11/17/2020	.0163	pCi/m3	127348006
Vogtle	Air Filters	Gross Beta	SIM	11/17/2020	.01932	pCi/m3	127348003
Vogtle	Air Filters	Gross Beta	MET	11/17/2020	.02496	pCi/m3	127348005
Vogtle	Air Filters	Gross Beta	DIS	11/17/2020	.01989	pCi/m3	127348004
Vogtle	River Water	Co-58	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Co-60	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Zn-65	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Zr-95	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Nb-95	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	I-131	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Cs-134	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Cs-137	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Ba-140	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	La-140	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Be-7	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	K-40	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Mn-54	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Fe-59	1512	11/18/2020	0	pCi/L	127342001
Vogtle	River Water	Cs-137	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Ba-140	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Mn-54	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Fe-59	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Co-58	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Co-60	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Zn-65	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Zr-95	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Nb-95	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	I-131	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Cs-134	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	La-140	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Be-7	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	K-40	1504	11/18/2020	0	pCi/L	127342002
Vogtle	River Water	Co-60	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Zn-65	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Zr-95	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Nb-95	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	I-131	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Cs-134	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Cs-137	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Ba-140	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	La-140	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Be-7	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	K-40	1495	11/18/2020	80.187	pCi/L	127342003

Vogtle	River Water	Mn-54	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Fe-59	1495	11/18/2020	0	pCi/L	127342003
Vogtle	River Water	Co-58	1495	11/18/2020	0	pCi/L	127342003
Vogtle	Milk Gamma	Cs-137	GIR	11/24/2020	0	pCi/L	127391002
Vogtle	Milk Gamma	Ba-140	GIR	11/24/2020	0	pCi/L	127391002
Vogtle	Milk Gamma	La-140	GIR	11/24/2020	0	pCi/L	127391002
Vogtle	Milk Gamma	Be-7	GIR	11/24/2020	0	pCi/L	127391002
Vogtle	Milk Gamma	K-40	GIR	11/24/2020	1335.1	pCi/L	127391002
Vogtle	Milk Gamma	I-131	GIR	11/24/2020	0	pCi/L	127391002
Vogtle	Milk Gamma	Cs-134	GIR	11/24/2020	0	pCi/L	127391002
Vogtle	Air Filters	Gross Beta	GIR	11/24/2020	.01966	pCi/m3	127398002
Vogtle	Air Filters	Gross Beta	WAY	11/24/2020	.02037	pCi/m3	127398001
Vogtle	Vegetation	Be-7	WAY	11/24/2020	0	pCi/Kg	127397001
Vogtle	Vegetation	K-40	WAY	11/24/2020	5707.7	pCi/Kg	127397001
Vogtle	Vegetation	Cs-137	WAY	11/24/2020	0	pCi/Kg	127397001
Vogtle	Vegetation	I-131	WAY	11/24/2020	0	pCi/Kg	127397001
Vogtle	Vegetation	Cs-134	WAY	11/24/2020	0	pCi/Kg	127397001
Vogtle	Milk Gamma	Cs-137	Milky Way	11/24/2020	1.2684	pCi/L	127391001
Vogtle	Milk Gamma	Cs-134	Milky Way	11/24/2020	0	pCi/L	127391001
Vogtle	Milk Gamma	I-131	Milky Way	11/24/2020	0	pCi/L	127391001
Vogtle	Milk Gamma	K-40	Milky Way	11/24/2020	1454.3	pCi/L	127391001
Vogtle	Milk Gamma	Be-7	Milky Way	11/24/2020	0	pCi/L	127391001
Vogtle	Milk Gamma	La-140	Milky Way	11/24/2020	0	pCi/L	127391001
Vogtle	Milk Gamma	Ba-140	Milky Way	11/24/2020	0	pCi/L	127391001
Vogtle	Vegetation	Be-7	HAN	11/24/2020	851.13	pCi/Kg	127397003
Vogtle	Vegetation	K-40	HAN	11/24/2020	4019.5	pCi/Kg	127397003
Vogtle	Vegetation	Cs-137	HAN	11/24/2020	0	pCi/Kg	127397003
Vogtle	Vegetation	Cs-134	HAN	11/24/2020	0	pCi/Kg	127397003
Vogtle	Vegetation	I-131	HAN	11/24/2020	0	pCi/Kg	127397003
Vogtle	Air Filters	Gross Beta	HAN	11/24/2020	.02384	pCi/m3	127398007
Vogtle	Air Filters	Gross Beta	RRD	11/24/2020	.02393	pCi/m3	127398006
Vogtle	Air Filters	Gross Beta	SIM	11/24/2020	.01994	pCi/m3	127398003
Vogtle	Vegetation	Be-7	SIM	11/24/2020	0	pCi/Kg	127397002
Vogtle	Vegetation	K-40	SIM	11/24/2020	5308.9	pCi/Kg	127397002
Vogtle	Vegetation	Cs-137	SIM	11/24/2020	0	pCi/Kg	127397002
Vogtle	Vegetation	I-131	SIM	11/24/2020	0	pCi/Kg	127397002
Vogtle	Vegetation	Cs-134	SIM	11/24/2020	0	pCi/Kg	127397002
Vogtle	Air Filters	Gross Beta	MET	11/24/2020	.0199	pCi/m3	127398005
Vogtle	Air Filters	Gross Beta	DIS	11/24/2020	.02239	pCi/m3	127398004
Vogtle	Air Filters	Gross Beta	GIR	11/30/2020	.03317	pCi/m3	127479002
Vogtle	Air Filters	Gross Beta	WAY	11/30/2020	.03245	pCi/m3	127479001
Vogtle	Air Filters	Gross Beta	HAN	11/30/2020	.03841	pCi/m3	127479007
Vogtle	Air Filters	Gross Beta	RRD	11/30/2020	.03558	pCi/m3	127479006
Vogtle	Air Filters	Gross Beta	SIM	11/30/2020	.03558	pCi/m3	127479003
Vogtle	Air Filters	Gross Beta	MET	11/30/2020	.0321	pCi/m3	127479005
Vogtle	Air Filters	Gross Beta	DIS	11/30/2020	.03224	pCi/m3	127479004
Vogtle	Milk Gamma	I-131	GIR	12/8/2020	0	pCi/L	127623002
Vogtle	Milk Gamma	Cs-134	GIR	12/8/2020	0	pCi/L	127623002
Vogtle	Milk Gamma	Cs-137	GIR	12/8/2020	0	pCi/L	127623002
Vogtle	Milk Gamma	Ba-140	GIR	12/8/2020	0	pCi/L	127623002
Vogtle	Milk Gamma	La-140	GIR	12/8/2020	0	pCi/L	127623002
Vogtle	Milk Gamma	Be-7	GIR	12/8/2020	0	pCi/L	127623002
Vogtle	Milk Gamma	K-40	GIR	12/8/2020	1383.3	pCi/L	127623002
Vogtle	Air Filters	Gross Beta	GIR	12/8/2020	.02961	pCi/m3	127586002
Vogtle	Air Filters	Gross Beta	WAY	12/8/2020	.0272	pCi/m3	127586001
Vogtle	Milk Gamma	I-131	Milky Way	12/8/2020	0	pCi/L	127623001
Vogtle	Milk Gamma	Cs-134	Milky Way	12/8/2020	0	pCi/L	127623001
Vogtle	Milk Gamma	Cs-137	Milky Way	12/8/2020	0	pCi/L	127623001
Vogtle	Milk Gamma	Ba-140	Milky Way	12/8/2020	0	pCi/L	127623001
Vogtle	Milk Gamma	La-140	Milky Way	12/8/2020	0	pCi/L	127623001
Vogtle	Milk Gamma	Be-7	Milky Way	12/8/2020	0	pCi/L	127623001
Vogtle	Milk Gamma	K-40	Milky Way	12/8/2020	1445	pCi/L	127623001
Vogtle	Air Filters	Gross Beta	HAN	12/8/2020	.03589	pCi/m3	127586007
Vogtle	Air Filters	Gross Beta	RRD	12/8/2020	.0298	pCi/m3	127586006
Vogtle	Air Filters	Gross Beta	MET	12/8/2020	.02927	pCi/m3	127586005
Vogtle	Air Filters	Gross Beta	DIS	12/8/2020	.03036	pCi/m3	127586004
Vogtle	River Water	Cs-137	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Ba-140	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	La-140	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Be-7	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	K-40	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Mn-54	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Fe-59	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Co-58	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Co-60	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Zn-65	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Zr-95	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Nb-95	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	I-131	1512	12/8/2020	0	pCi/L	127624001
Vogtle	Water H-3	Tritium	1512	12/8/2020	98.5	pCi/L	128371003
Vogtle	River Water	Cs-134	1512	12/8/2020	0	pCi/L	127624001
Vogtle	River Water	Be-7	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	K-40	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Mn-54	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Fe-59	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Co-58	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Co-60	1495	12/8/2020	0	pCi/L	127624003

Vogtle	River Water	Zn-65	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Zr-95	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Nb-95	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	I-131	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Cs-134	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Cs-137	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Ba-140	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	La-140	1495	12/8/2020	0	pCi/L	127624003
Vogtle	River Water	Fe-59	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Co-58	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Co-60	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Zn-65	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Zr-95	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Nb-95	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	I-131	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Cs-134	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Cs-137	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Ba-140	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	La-140	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Be-7	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	K-40	1504	12/8/2020	0	pCi/L	127624002
Vogtle	River Water	Mn-54	1504	12/8/2020	0	pCi/L	127624002
Vogtle	Air Filters	Gross Beta	WAY	12/15/2020	.04143	pCi/m3	127712001
Vogtle	Air Filters	Gross Beta	GIR	12/15/2020	.03885	pCi/m3	127712002
Vogtle	Air Filters	Gross Beta	SIM	12/15/2020	.05044	pCi/m3	127712003
Vogtle	Air Filters	Gross Beta	HAN	12/15/2020	.046	pCi/m3	127712007
Vogtle	Air Filters	Gross Beta	RRD	12/15/2020	.0403	pCi/m3	127712006
Vogtle	Air Filters	Gross Beta	MET	12/15/2020	.04839	pCi/m3	127712005
Vogtle	Air Filters	Gross Beta	DIS	12/15/2020	.0402	pCi/m3	127712004
Vogtle	Milk Gamma	Be-7	Milky Way	12/22/2020	0	pCi/L	127788001
Vogtle	Milk Gamma	La-140	Milky Way	12/22/2020	0	pCi/L	127788001
Vogtle	Milk Gamma	Ba-140	Milky Way	12/22/2020	0	pCi/L	127788001
Vogtle	Milk Gamma	Cs-137	Milky Way	12/22/2020	0	pCi/L	127788001
Vogtle	Milk Gamma	Cs-134	Milky Way	12/22/2020	0	pCi/L	127788001
Vogtle	Milk Gamma	I-131	Milky Way	12/22/2020	0	pCi/L	127788001
Vogtle	Milk Gamma	K-40	Milky Way	12/22/2020	1466.4	pCi/L	127788001
Vogtle	Air Filters	Gross Beta	WAY	12/22/2020	.02499	pCi/m3	127794001
Vogtle	Milk Gamma	I-131	GIR	12/22/2020	0	pCi/L	127788002
Vogtle	Milk Gamma	K-40	GIR	12/22/2020	1395	pCi/L	127788002
Vogtle	Milk Gamma	Be-7	GIR	12/22/2020	0	pCi/L	127788002
Vogtle	Milk Gamma	Cs-134	GIR	12/22/2020	0	pCi/L	127788002
Vogtle	Milk Gamma	Cs-137	GIR	12/22/2020	0	pCi/L	127788002
Vogtle	Milk Gamma	Ba-140	GIR	12/22/2020	0	pCi/L	127788002
Vogtle	Milk Gamma	La-140	GIR	12/22/2020	0	pCi/L	127788002
Vogtle	Air Filters	Gross Beta	GIR	12/22/2020	.02564	pCi/m3	127794002
Vogtle	Air Filters	Gross Beta	SIM	12/22/2020	.0252	pCi/m3	127794003
Vogtle	Air Filters	Gross Beta	HAN	12/22/2020	.02804	pCi/m3	127794007
Vogtle	Air Filters	Gross Beta	RRD	12/22/2020	.03098	pCi/m3	127794006
Vogtle	Air Filters	Gross Beta	MET	12/22/2020	.02743	pCi/m3	127794005
Vogtle	Air Filters	Gross Beta	DIS	12/22/2020	.0248	pCi/m3	127794004
Vogtle	Milk Gamma	La-140	GIR	12/28/2020	0	pCi/L	127823002
Vogtle	Milk Gamma	Ba-140	GIR	12/28/2020	0	pCi/L	127823002
Vogtle	Milk Gamma	Cs-137	GIR	12/28/2020	0	pCi/L	127823002
Vogtle	Milk Gamma	Cs-134	GIR	12/28/2020	0	pCi/L	127823002
Vogtle	Milk Gamma	I-131	GIR	12/28/2020	0	pCi/L	127823002
Vogtle	Milk Gamma	K-40	GIR	12/28/2020	1425.5	pCi/L	127823002
Vogtle	Milk Gamma	Be-7	GIR	12/28/2020	0	pCi/L	127823002
Vogtle	Air Filters	Gross Beta	GIR	12/28/2020	.02634	pCi/m3	127854002
Vogtle	Air Qtr Comp	Be-7	GIR	12/28/2020	.07042	pCi/m3	128019002
Vogtle	Air Qtr Comp	Cs-137	GIR	12/28/2020	0	pCi/m3	128019002
Vogtle	Air Qtr Comp	Cs-134	GIR	12/28/2020	0	pCi/m3	128019002
Vogtle	Air Qtr Comp	I-131	GIR	12/28/2020	0	pCi/m3	128019002
Vogtle	Air Qtr Comp	I-131	WAY	12/28/2020	0	pCi/m3	128019001
Vogtle	Air Filters	Gross Beta	WAY	12/28/2020	.02252	pCi/m3	127854001
Vogtle	Air Qtr Comp	Be-7	WAY	12/28/2020	.09443	pCi/m3	128019001
Vogtle	Air Qtr Comp	Cs-137	WAY	12/28/2020	0	pCi/m3	128019001
Vogtle	Air Qtr Comp	Cs-134	WAY	12/28/2020	0	pCi/m3	128019001
Vogtle	Milk Gamma	Cs-134	Milky Way	12/28/2020	0	pCi/L	127823001
Vogtle	Milk Gamma	I-131	Milky Way	12/28/2020	0	pCi/L	127823001
Vogtle	Milk Gamma	K-40	Milky Way	12/28/2020	1487.1	pCi/L	127823001
Vogtle	Milk Gamma	Be-7	Milky Way	12/28/2020	0	pCi/L	127823001
Vogtle	Milk Gamma	La-140	Milky Way	12/28/2020	0	pCi/L	127823001
Vogtle	Milk Gamma	Ba-140	Milky Way	12/28/2020	0	pCi/L	127823001
Vogtle	Milk Gamma	Cs-137	Milky Way	12/28/2020	0	pCi/L	127823001
Vogtle	Air Qtr Comp	I-131	HAN	12/28/2020	0	pCi/m3	128019007
Vogtle	Air Filters	Gross Beta	HAN	12/28/2020	.02677	pCi/m3	127854007
Vogtle	Air Qtr Comp	Be-7	HAN	12/28/2020	.07472	pCi/m3	128019007
Vogtle	Air Qtr Comp	Cs-137	HAN	12/28/2020	0	pCi/m3	128019007
Vogtle	Air Qtr Comp	Cs-134	HAN	12/28/2020	0	pCi/m3	128019007
Vogtle	Air Qtr Comp	Cs-137	RRD	12/28/2020	0	pCi/m3	128019006
Vogtle	Air Qtr Comp	I-131	RRD	12/28/2020	0	pCi/m3	128019006
Vogtle	Air Filters	Gross Beta	RRD	12/28/2020	.02628	pCi/m3	127854006
Vogtle	Air Qtr Comp	Cs-134	RRD	12/28/2020	0	pCi/m3	128019006
Vogtle	Air Qtr Comp	Be-7	RRD	12/28/2020	.08542	pCi/m3	128019006
Vogtle	Air Filters	Gross Beta	SIM	12/28/2020	.02751	pCi/m3	127854003
Vogtle	Air Qtr Comp	Cs-134	SIM	12/28/2020	0	pCi/m3	128019003
Vogtle	Air Qtr Comp	I-131	SIM	12/28/2020	0	pCi/m3	128019003

Vogtle	Air Qtr Comp	Be-7	SIM	12/28/2020	.09453	pCi/m3	128019003
Vogtle	Air Qtr Comp	Cs-137	SIM	12/28/2020	0	pCi/m3	128019003
Vogtle	Air Filters	Gross Beta	MET	12/28/2020	.02577	pCi/m3	127854005
Vogtle	Air Qtr Comp	Be-7	MET	12/28/2020	.0833	pCi/m3	128019005
Vogtle	Air Qtr Comp	Cs-137	MET	12/28/2020	0	pCi/m3	128019005
Vogtle	Air Qtr Comp	Cs-134	MET	12/28/2020	0	pCi/m3	128019005
Vogtle	Air Qtr Comp	I-131	MET	12/28/2020	0	pCi/m3	128019005
Vogtle	Air Qtr Comp	I-131	DIS	12/28/2020	0	pCi/m3	128019004
Vogtle	Air Qtr Comp	Cs-137	DIS	12/28/2020	0	pCi/m3	128019004
Vogtle	Air Qtr Comp	Cs-134	DIS	12/28/2020	0	pCi/m3	128019004
Vogtle	Air Filters	Gross Beta	DIS	12/28/2020	.02794	pCi/m3	127854004
Vogtle	Air Qtr Comp	Be-7	DIS	12/28/2020	.05768	pCi/m3	128019004