

**2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
CLASS 3 LANDFILL AREA 2  
WINYAH GENERATING STATION**

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# 1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2023 Annual Groundwater Monitoring Corrective Action Report for Class 3 Landfill Area 2 at the Winyah Generating Station (WGS). This 2022 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated April 17, 2015 (Rule), specifically subsection § 257.90(e)(1) through (6).

The newly constructed Class 3 Landfill Area 2 at WGS received approval to operate from South Carolina Department of Health and Environmental Control (SCDHEC) on December 20, 2021; subsequently, initial receipt of waste began on March 28, 2022. This new CCR landfill is subject to the groundwater monitoring and corrective action requirements described under § 257.90 through § 257.98. The Class 3 Landfill Area 2 is located within the footprint of Ash Pond A, which is an existing surface impoundment subject to the CCR Rule undergoing closure by removal. A portion of the existing groundwater monitoring network for Ash Pond A is also included in the monitoring network for the Class 3 Landfill Area 2. In addition to the federal CCR rule groundwater monitoring program discussed throughout, a SCDHEC approved groundwater monitoring program is also being implemented in accordance with the SCDHEC Permit #LF3-00042. This document addresses the requirement for the Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report per § 257.90(e).

In accordance with § 257.90(e)(6), an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit is provided below:

At the start of the current annual reporting period (January 1, 2023), the Class 3 Landfill Area 2 was in a detection monitoring program. In February 2023, statistically significant increases (SSIs) of the following Appendix III constituents were identified: calcium and chloride in monitoring well WLF-A2-6, sulfate in monitoring well WAP-19, pH in WAP-9, and total dissolved solids monitoring wells WAP-9 and WAP-19. An alternate source demonstration (ASD) was completed within 90 days of initially determining these SSIs in 2022. The ASD was completed on March 30, 2023. In June 2023, SSIs of the following Appendix III constituents were again identified: calcium and chloride in monitoring well WLF-A2-6, sulfate in monitoring wells WAP-19 and WLF-A2-6, and total dissolved solids monitoring wells WAP-9 and WAP-19. At the end of the current annual reporting period (December 31, 2023), the Class 3 Landfill Area 2 remained in detection monitoring. The remaining groundwater requirements to initiate assessment monitoring, identify Appendix IV statistically significant levels (SSLs) and establish groundwater protection standards (GWPS), initiate, and complete an assessment of corrective measures, hold a public meeting, select a corrective action remedy, and implement remedial activities are not applicable at this time.

To report on the activities conducted during the prior calendar year and document progress complying with the CCR Rule, the specific requirements listed in § 257.90(e)(1) through (5) are provided in the next section in bold/italic type followed by a short narrative stating how that specific requirement was met.

## 2. 40 CFR § 257.90 Applicability

### 2.1 40 CFR § 257.90(a) and (c)

***All CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under § 257.90 through § 257.98, except as provided in paragraph (g) of this section. Once a groundwater monitoring system and groundwater monitoring program has been established at the CCR unit as required by this subpart, the owner or operator must conduct groundwater monitoring and, if necessary, corrective action through the active life and post-closure care period of the CCR unit.***

As stated in Section 1, Santee Cooper is complying with the groundwater monitoring and corrective action requirements described under 40 CFR § 257.90 through § 257.98 of the CCR Rule for the WGS Class 3 Landfill Area 2. This document addresses the requirements outlined in § 257.90(e) for the Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

### 2.2 40 CFR § 257.90(e) - SUMMARY

***Annual groundwater monitoring and corrective action report. [...] For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).***

This Annual Report documents the activities completed in 2023 for the Class 3 Landfill Area 2 at WGS as required by the Rule. Groundwater sampling and analysis was conducted per the requirements described in § 257.93, and the status of the groundwater monitoring program described in § 257.94 is provided in this report.

#### 2.2.1 Status of the Groundwater Monitoring Program

In accordance with § 257.94, additional groundwater monitoring wells were constructed, and baseline sampling of the groundwater monitoring well network was completed for the newly constructed Class 3 Landfill Area 2 at WGS in February 2022 prior to the initial receipt of waste on March 28, 2022.

The initial detection monitoring event occurred in July 2022 during the second semi-annual sampling event and the resulting statistical evaluation identified SSIs. This was consistent with analytical results associated with the monitoring of WGS Ash Pond A which was not unexpected in that the two CCR units share a footprint. An ASD was conducted which evaluated multiple lines of evidence including

comparing groundwater quality conditions downgradient of the Class 3 Landfill Area 2 prior to receiving CCR and compared the data to Appendix III constituent concentrations detected after the Class 3 Landfill Area 2 began operation. It was concluded that Ash Pond A is the alternate source for the Appendix III SSIs detected downgradient of the new Class 3 Landfill Area 2, and that Landfill Area 2 is not a contributing source. The final ASD is provided in Appendix C.

Additionally, two (2) groundwater monitoring wells, WLF-A2-1 and WLF-A2-2, were installed in December 2021 for the next phase of landfill construction. These were installed early enough to allow time to collect a minimum of eight independent baseline samples, which occurred on a monthly basis during 2022, prior to those new cells accepting the initial receipt of waste. In fact, ten (10) independent baseline samples were collected in 2022 for these two monitoring wells. The tenth round of baseline groundwater samples were collected in December 2022 for these two (2) wells, however the analytical results from this sampling round were not received until 2023 and therefore are included in this annual report. The new landfill cells received approval to operate from SCDHEC in December 2022 and began receiving waste in January 2023.

A summary of the groundwater monitoring program for the new Landfill Area 2, including the analytical results for the Appendix III and Appendix IV list of constituents, is presented in Table 1 and the laboratory analytical reports, along with field sampling forms, are provided in Appendix B of this report.

### 2.2.2 Key Actions Completed

The following key actions were completed in 2023:

- Prepared 2022 Annual Report including:
  - Pursuant to § 257.105(h)(1) the Annual Report was placed in the facility's operating record;
  - Pursuant to § 257.106(h)(1), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];
  - Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)];
- Collected and analyzed a minimum of two (2) rounds of groundwater samples (February and June) in accordance with § 257.94(b) and recorded the concentrations in the facility's operating record as required by § 257.94(f). Groundwater monitoring results are summarized in Table 1 and laboratory analytical reports are provided in Appendix B.
- Completed statistical evaluation to determine SSIs above background for Appendix III constituents in accordance with § 257.93(h)(2) (Appendix A).
- Completed a successful alternate source demonstration in accordance with § 257.94(e)(2).
- Waste receipt in newly constructed Class 3 Landfill Area 2 cells at WGS began in January 2023.
- Continued to implement improved procedures for potentiometric surface characterization of the uppermost aquifer by:
  - Revising the groundwater elevation measurement procedure by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual

- sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample.
  - The water surface elevations of unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer.
  - Continuing quarterly sitewide synoptic water level measurements in conjunction with the semi-annual groundwater monitoring events.
- Evaluated turbidity, oxidation-reduction potential, and well screen submersion trends in sitewide wells and identified wells to be redeveloped by a certified well driller to remove buildup of sediment fines and suspected biofouling on the well screens. A submersible camera was used to investigate wells with unsubmerged screens prior to redevelopment. Camera investigation and well redevelopment were completed in November 2023. Success of redevelopment will be monitored during 2024 sampling events.
- Both the Sampling and Analysis Plan and the Groundwater Monitoring Plan for Winyah Generating Station were updated to reflect changes in site conditions and procedures on August 18<sup>th</sup>, 2023, and October 2<sup>nd</sup>, 2023, respectively.

### **2.2.3 Problems Encountered**

No problems were encountered.

### **2.2.4 Actions to Resolve Problems**

Not applicable.

### **2.2.5 Project Key Activities for Upcoming Year**

Key activities to be completed in 2024 include the following:

- Prepare the 2023 annual report; place it in the record as required by § 257.105(h)(1), notify the Relevant State Director [§ 257.106(d)]; and post to the facility's publicly available website [§ 257.107(d)].
- Collect and analyze a minimum of two (2) rounds of groundwater samples in accordance with § 257.94(b) and record the concentrations in the facility's operating record as required by § 257.94(f).
- Conduct statistical analysis of Detection Monitoring analytical data to determine if statistically significant increases (SSIs) over background are present as required by § 257.93(h) and § 257.94.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
  - Installing piezometers on the south side of the Class 3 Landfill Area 2 to monitor groundwater flow direction and determine if groundwater flow is shifting from radial to north-northwest as predicted by the groundwater flow model.

## 2.3 40 CFR § 257.90(e) - INFORMATION

***At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:***

### 2.3.1 40 CFR § 257.90(e)(1)

***A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;***

As required by § 257.90(e)(1), a map showing the location of the CCR unit and associated upgradient and downgradient monitoring wells for the Class 3 Landfill Area 2 is presented as Figure 1.

### 2.3.2 40 CFR § 257.90(e)(2)

***Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;***

No monitoring wells were installed or decommissioned in 2023.

### 2.3.3 40 CFR § 257.90(e)(3)

***In addition to all the monitoring data obtained under § 257.90 through § 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;***

Two groundwater monitoring wells, WLF-A2-1 and WLF-A2-2 were installed in December 2021 for the next phase of landfill construction. Ten (10) independent baseline samples were collected in 2022 for these two monitoring wells. The tenth round of baseline groundwater samples were collected in December 2022 for these two wells, however the analytical results from this sampling round were received in 2023 and therefore are included in this annual report.

A summary table including the sample names, dates of sample collection, reason for sample collection (Detection), and monitoring data obtained for the groundwater monitoring program for the Class 3 Landfill Area 2 is presented in Table 1 of this report. In addition, and as required by § 257.95(d)(3), the groundwater protection standards are included on Table 1. Laboratory analytical data reports, along with field sampling forms, are provided in Appendix B.

### 2.3.4 40 CFR § 257.90(e)(4)

***A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and***

In February 2023, SSIs of the following Appendix III constituents were identified: calcium and chloride in monitoring well WLF-A2-6, sulfate in monitoring well WAP-19, pH in WAP-9, and total dissolved solids monitoring wells WAP-9 and WAP-19. An ASD was completed within 90 days of initially determining these SSIs in 2022. The ASD was completed on March 30, 2023. As noted in the 2023 ASD, the results are not unexpected because the Class 3 Landfill Area 2 is located within the footprint of Ash Pond A, which is currently undergoing corrective action and closure. Ash Pond A was an unlined CCR impoundment that operated for over 40 years. As supported by the 2023 ASD, the former unit is contributing to the elevated concentrations. As such, the Class 3 Landfill Area 2 will remain in detection monitoring.

In June/July 2023, SSIs of the following Appendix III constituents were identified: calcium and chloride in monitoring well WLF-A2-6, sulfate in monitoring wells WAP-19 and WLF-A2-6, and total dissolved solids monitoring wells WAP-9 and WAP-19. These findings were supported by the 2023 ASD discussed above. Therefore, the CCR Unit did not transition between monitoring programs in 2023.

#### **2.3.5 40 CFR § 257.90(e)(5)**

***Other information required to be included in the annual report as specified in § 257.90 through § 257.98.***

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.94 of the Rule. There are no applicable requirements from Sections § 257.95 through § 257.98.

Groundwater flow rate and direction are provided as Figures 2, 3, 4, and 5 for each synoptic water level event as specified in § 257.93(c).

As the number of groundwater monitoring wells and associated samples have increased considerably across the site since the promulgation of the CCR Rule in 2015, turnaround times for labs have increased compared to historical expectations. Average turnaround times were approximately 60 days in 2023. Additionally, expansion of the groundwater monitoring networks (i.e., wells and samples) has contributed to a significant increase in data volume and complexity.

## TABLES



**Table 1 - Summary of Analytical Results  
Winyah Generating Station Class 3 Landfill Area 2 Detection Monitoring 2023**

Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number	Appendix III Constituents										Field Parameters											
				Boron		Calcium		Chloride		Fluoride		Sulfate		Total Dissolved Solids	pH	Depth to Groundwater	Groundwater Elevation	pH	Specific Conductivity	Temperature	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen		
Unit	Method	US EPA	MCL/RL	mg/L	EPA 6010D	mg/L	EPA 6010D	mg/L	EPA 300.0	mg/L	EPA 300.0	mg/L	EPA 300.0	mg/L	SW 2540C	SU	Feet	Feet	SU	uS	C	mV	NTU	ppm	
<b>Site Background Wells</b>																									
WAP-1	Background	2/14/2023	AF56394	37.1	10.5	8.49	13.4	<0.100	33.6	100	4.43	6.36	23.1	4.43	136	21.0	60.0	0.720							
WAP-1	Background	6/27/2023	AF66711	41.0	2.79	3.26	10.83	<0.100	37.1	90.0	4.51	6.93	22.5	4.51	103	30.4	56.0	0.720							
WAP-1	<b>total samples</b>																								
WBW-1	Background	2/14/2023	AF56431	54.7	2.79	3.26	6.60	<0.100	9.92	87.5	3.92	9.04	22.9	3.92	56.0	20.1	181	3.48							
WBW-1	Background	6/27/2023	AF66748	53.1	2.79	3.26	7.58	<0.100	14.4	42.5	3.94	9.13	22.8	3.94	73.0	26.5	331	3.76							
WBW-1	<b>total samples</b>																								
<b>Class 3 Landfill Area 2 Wells</b>																									
WAP-9	Detection	2/27/2023	AF56402	263.0	203	204	163	<0.100	263	1168	6.34	9.95	18.1	6.34	1310	23.1	-27.0	9.70	0.760						
WAP-9	Detection	6/29/2023	AF66719	325.0	232	232	166	0.100	296	1136	6.11	10.5	17.5	6.11	1590	26.5	-122	3.80	0.740						
WAP-9	<b>total samples</b>																								
WAP-17	Detection	3/8/2023	AF56416	4330	260	260	189	<0.100	663	1301	6.34	6.88	20.0	6.34	1790	21.5	-80.0	6.70	0.760						
WAP-17	Duplicate	3/8/2023	AF56417	4470	260	260	185	<0.100	661	1402	6.34	6.91	20.0	6.33	1660	25.4	-108	6.20	0.650						
WAP-17	Detection	7/10/2023	AF66733	4010	253	253	105	<0.100	651	1271	6.33	6.91	20.0	6.33	1660	25.4	-108	6.20	0.650						
WAP-17	Duplicate	7/10/2023	AF66734	3980	254	254	105	<0.100	652	1260	6.34	6.91	20.0	6.33	1660	25.4	-108	6.20	0.650						
WAP-17	<b>total samples</b>																								
WAP-18	Detection	3/9/2023	AF56418	1530	84.4	84.4	47.1	<0.100	232	521	5.47	10.7	20.3	5.47	637	22.8	172	1.80	1.02						
WAP-18	Detection	7/5/2023	AF66735	1190	82.6	82.6	54.4	<0.100	232	479	5.28	11.3	19.8	5.28	685	23.0	151	2.60	1.46						
WAP-18	<b>total samples</b>																								
WAP-19	Detection	3/7/2023	AF56419	4200	601	601	45.5	0.210	1540	2562	6.48	23.7	19.7	6.48	2270	28.7	-54.0	3.68	0.720						
WAP-19	Detection	7/6/2023	AF66736	4320	639	639	39.8	0.160	1610	2618	6.48	23.3	20.1	6.48	2940	28.8	-147	4.30	0.640						
WAP-19	<b>total samples</b>																								
WLF-A2-1	Baseline	12/7/2022	AF50602	1760	108	108	68.2	<0.100	279	550	5.13	9.72	20.3	5.13	852	21.75	17.0	0	0.490						
WLF-A2-1	Duplicate	12/7/2022	AF50603	1700	106	106	68.4	<0.100	291	578	5.13	9.57	20.5	4.77	995	22.7	154	9.50	0.850						
WLF-A2-1	Detection	3/1/2023	AF56439	2800	138	138	142	<0.100	278	800	4.77	9.57	20.5	4.77	995	22.7	154	9.50	0.850						
WLF-A2-1	Detection	7/5/2023	AF66736	1190	62.2	62.2	17.3	<0.100	119	306	5.52	10.3	19.7	5.52	375	26.3	-64.0	2.10	0.660						
WLF-A2-1	<b>total samples</b>																								
WLF-A2-2	Baseline	12/6/2022	AF50604	2220	184	184	101	<0.100	351	880	5.92	7.32	20.2	5.92	1150	21.7	-20.0	4.90	0.270						
WLF-A2-2	Detection	3/1/2023	AF56441	2330	191	191	98.9	<0.100	342	1012	6.01	7.28	24.0	6.01	1070	24.0	20.3	7.70	0.690						
WLF-A2-2	Detection	7/12/2023	AF66757	2320	189	189	94.8	<0.100	391	950	5.68	7.72	19.8	5.68	1190	23.4	-62.0	5.00	0.720						
WLF-A2-2	<b>total samples</b>																								
WLF-A2-6	Detection	2/16/2023	AF56442	245	166	166	32.7	0.110	133	605	5.99	14.4	20.8	5.99	821	23.6	24.0	0	0.630						
WLF-A2-6	Duplicate	2/16/2023	AF56443	206	160	160	32.3	0.110	125	625	6.21	15.1	20.0	6.21	1040	23.7	-100	4.60	0.840						
WLF-A2-6	Detection	7/6/2023	AF66758	309	193	193	48.0	0.120	187	685	6.21	15.1	20.0	6.21	1040	23.7	-100	4.60	0.840						
WLF-A2-6	Duplicate	7/6/2023	AF66759	293	190	190	48.4	0.130	186	694	6.21	15.1	20.0	6.21	1040	23.7	-100	4.60	0.840						
WLF-A2-6	<b>total samples</b>																								

Notes: 1. All groundwater samples collected from the monitoring wells for Detection Monitoring in 2023 for the constituents listed in Appendix III of the EPA CCR Rule (40 CFR) were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Test America Laboratories Inc. Savannah (Certification # 99001), Rogers & Calcutt, Inc. (Certification # 231050001), and Pace Analytical Services LLC (Certification #89030).  
2. All Background and downgradient compliance wells have been sampled to meet §257.94.

3. Due to challenges with laboratory delays, all groundwater samples were not analyzed by a single laboratory. This accounts for the majority of the reporting limit variability. Matrix interference also contributed to variable RLs.  
4. Depth to groundwater is measured below the top of the casing (btoc) to the water surface. Elevation is shown relative to mean sea level (msl).

**Table 2**  
**Winyah Generating Station**  
**2023 Synoptic Water Levels for Groundwater Monitoring Wells**

Well Name	Top of Casing Elevation (ft msl) <sup>2</sup>	1st Event - 2/13/2023		2nd Event - 5/8/2023		3rd Event - 7/19/2023		4th Event - 11/14/2023	
		Depth to Groundwater (ft btoc) <sup>2</sup>	Groundwater Elevation (ft msl) <sup>2</sup>	Depth to Groundwater (ft btoc) <sup>2</sup>	Groundwater Elevation (ft msl) <sup>2</sup>	Depth to Groundwater (ft btoc) <sup>2</sup>	Groundwater Elevation (ft msl) <sup>2</sup>	Depth to Groundwater (ft btoc) <sup>2</sup>	Groundwater Elevation (ft msl) <sup>2</sup>
WBW-1	31.97	9.04	22.93	9.54	22.43	9.15	22.82	8.70	23.27
PZ-1	31.25	8.25	23.00	9.78	21.47	9.31	21.94	9.30	21.95
WAP-1	29.44	6.31	23.13	7.35	22.09	6.92	22.52	6.60	22.84
WAP-2	23.69	8.49	15.20	9.15	14.54	9.96	13.73	9.45	14.24
WAP-3	14.56	6.56	8.00	8.34	6.22	8.09	6.47	8.85	10.58
WAP-4	20.34	5.37	14.97	8.13	12.21	6.44	13.90	8.20	12.14
WAP-5 <sup>1</sup>	26.25	7.97	18.28	8.90	17.35	8.84	17.41	9.65	16.60
WAP-6 <sup>1</sup>	30.98	8.82	22.16	9.61	21.37	9.35	21.63	9.00	21.98
WAP-7	29.94	8.47	21.47	10.25	19.69	9.63	20.31	10.40	19.54
WAP-8 <sup>1</sup>	30.38	10.20	20.18	11.45	18.93	11.08	19.30	11.55	18.83
WAP-9	28.04	9.55	18.49	10.42	17.62	10.23	17.81	10.85	17.19
WAP-10	26.11	5.27	20.84	6.32	19.79	6.17	19.94	6.85	19.26
WAP-11 <sup>1</sup>	9.55	3.86	5.69	5.51	4.04	5.29	4.26	5.45	4.10
WAP-12	30.84	8.08	22.76	9.92	20.92	10.08	20.76	10.75	20.09
WAP-13	21.97	6.58	15.39	7.47	14.50	7.55	14.42	10.00	11.97
WAP-14	14.69	3.76	10.93	5.33	9.36	4.09	10.60	4.90	9.79
WAP-14A	13.95	2.19	11.76	3.78	10.17	2.89	11.06	3.75	10.20
WAP-14B	9.23	3.92	5.31	5.60	3.63	5.19	4.04	5.40	3.83
WAP-14C	13.88	7.12	6.76	10.62	3.26	9.35	4.53	10.50	3.38
WAP-15	20.41	5.52	14.89	7.42	12.99	6.35	14.06	7.60	12.81
WAP-16	25.08	6.89	18.19	7.94	17.14	9.49	15.59	10.50	14.58
WAP-17	26.88	6.88	20.00	6.80	20.08	6.77	20.11	7.65	19.23
WAP-18	31.04	10.23	20.81	11.34	19.70	11.09	19.95	11.25	19.79
WAP-19	43.39	22.27	21.12	23.51	19.88	23.13	20.26	23.02	20.37
WAP-20 <sup>4</sup>	43.08	22.75	20.33	22.53	20.55	22.51	20.57	-	-
WAP-21	43.06	22.85	20.21	24.28	18.78	24.43	18.63	24.27	18.79
WAP-22	30.48	9.61	20.87	12.08	18.40	10.37	20.11	10.75	19.57
WAP-23	43.23	22.78	20.45	24.71	18.52	24.01	19.22	24.33	18.90
WAP-24	28.77	8.24	20.53	9.02	19.75	8.91	19.86	9.45	19.32
WAP-25	27.10	8.02	19.08	8.94	18.16	8.73	18.37	8.90	18.20
WAP-26	27.56	8.03	19.53	9.31	18.25	8.87	18.69	9.40	18.16
WAP-27	43.25	22.40	20.85	24.24	19.01	23.66	19.59	23.77	19.41
WAP-28	23.09	10.19	12.90	10.83	12.26	10.98	12.11	11.35	11.74
WAP-29	12.34	5.30	7.04	7.65	4.69	7.11	5.23	7.95	4.39
WBW-A1-1	28.14	5.59	22.55	7.47	20.67	6.61	21.53	7.00	21.14
WLF-A1-1	41.35	16.85	24.50	18.64	22.71	17.51	23.84	17.90	23.45
WLF-A1-2	29.21	5.98	23.23	7.81	21.40	7.38	21.83	7.60	21.61
WLF-A1-3	28.31	5.16	23.15	7.46	20.85	7.00	21.31	7.25	21.06
WLF-A1-4	28.24	4.81	23.43	7.20	21.04	6.72	21.52	7.05	21.19
WLF-A1-5	37.64	14.91	22.73	15.04	22.60	14.57	23.07	16.35	21.29
WLF-A2-1	30.04	8.91	21.13	10.40	19.64	10.14	19.90	10.40	19.64
WLF-A2-2	27.56	6.48	21.08	8.06	19.50	7.66	19.90	10.05	17.51
WLF-A2-6	35.14	14.34	20.80	15.17	19.97	14.94	20.20	15.80	19.34
WGS-PSE-1 <sup>3</sup>	-	-	22.55	-	21.22	-	21.43	-	21.87
WGS-PSE-2 <sup>3</sup>	-	-	33.01	-	32.74	-	32.71	-	32.76
WGS-PSE-3 <sup>3</sup>	-	-	20.54	-	19.11	-	17.93	-	18.19
WGS-PSE-4 <sup>3</sup>	-	-	17.22	-	17.38	-	15.84	-	16.69
WGS-PSE-5 <sup>3</sup>	-	-	20.09	-	19.35	-	19.27	-	19.23
WGS-PSE-6 <sup>3</sup>	-	-	16.52	-	15.29	-	NA	-	15.21

- Notes:
1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentration under the SC DHEC Industrial Wastewater Permit #SC0022471 and are not used for CCR constituent concentrations.
  2. Depth to Groundwater is measured below the top of the casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to mean sea level (msl).
  3. Pond surface elevations (PSE) were collected to aid in the potentiometric surface interpretation. No surface water present at PSE-6 during 3rd event, so unable to collect surface water elevation.
  4. Unable to collect groundwater data during November event due to the monitoring well going dry.

## FIGURES



WEST ASH POND  
(TEMPORARILY  
CAPPED)

POWER BLOCK

COAL PILE

SOUTH ASH POND

ASH POND A

ASH POND B

CLASS 3 LANDFILL  
AREA 2

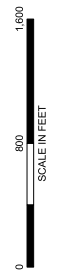
INDUSTRIAL  
COOLING  
POND

**LEGEND**

- ⊕ CLASS 3 LANDFILL AREA 2 WELL
- ⊕ BACKGROUND WELL
- - - - CCR UNIT BOUNDARY
- ⌈ ⌋ PROPERTY BOUNDARY
- POND WATER SURFACE ELEVATION MEASUREMENT LOCATION

**NOTES**

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI

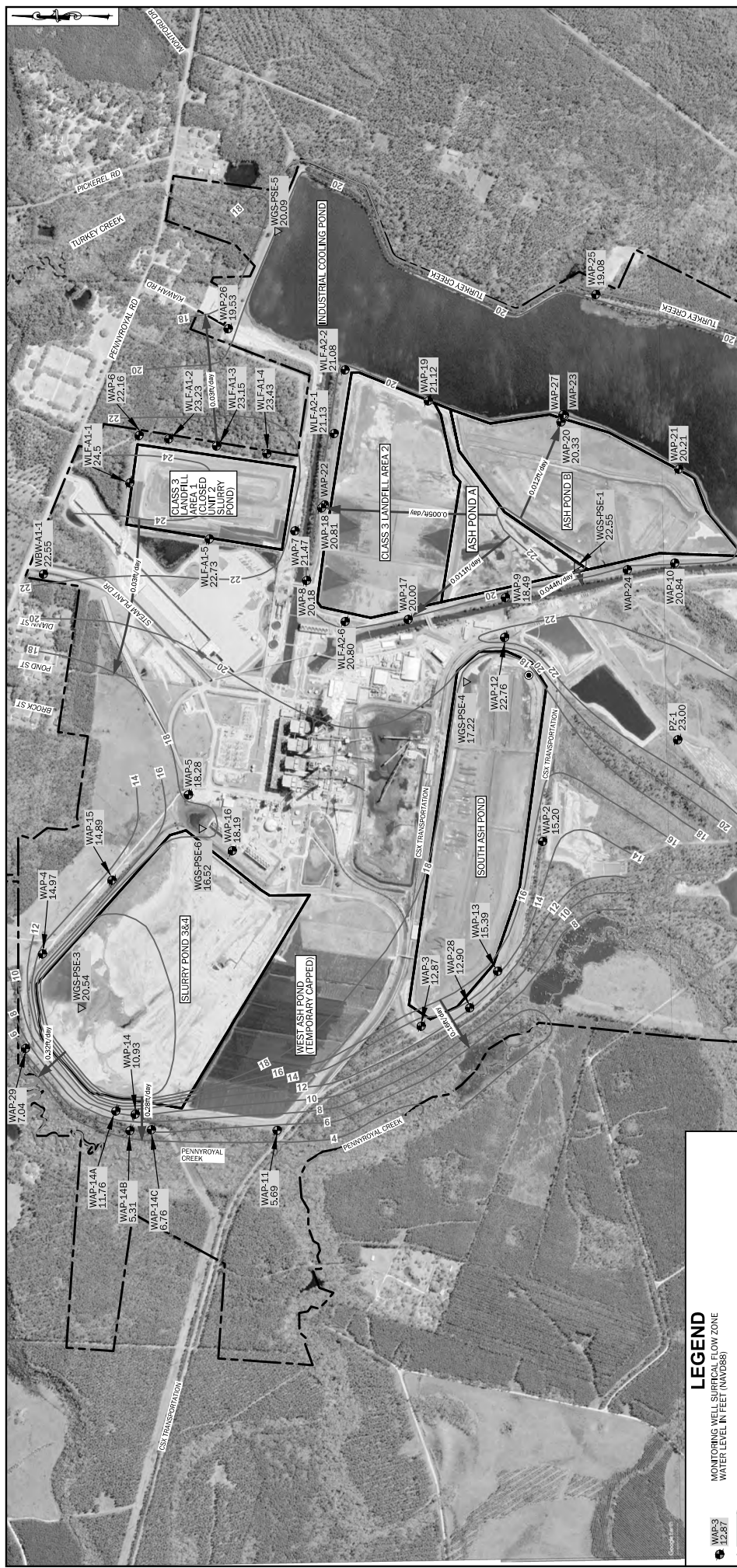



SANTEE COOPER  
WINYAH GENERATING STATION  
GEORGETOWN, SOUTH CAROLINA

**LOCATION OF CLASS 3 LANDFILL AREA 2  
GROUNDWATER MONITORING WELLS  
FOR CCR COMPLIANCE**


JANUARY 2024

FIGURE 1





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**santee cooper**  
WYAH GENERATING STATION  
GEORGETOWN, SOUTH CAROLINA

**FIGURE 2**  
**POTENTIOMETRIC MAP**  
**FEBRUARY 13, 2023**

GRAPHIC SCALE: 0 500 1000 IN FEET

DATE: 5/15/2023  
DRAWN BY: J. CHASTAIN  
DATE: 1/24/2024  
CHECKED BY: K. FERRI  
DATE: 1/24/2024  
APPROVED BY: K. FERRI  
PROJECT MANAGER: -  
PROJECT NUMBER: -  
LAYOUT FILE: 1 (POTENT MAP 3023-02-13)  
LAST SAVED BY: J. CHASTAIN  
DATE: 5/15/2023 8:57 AM  
PLOT DATE: 02/15/2024 9:08 AM

### LEGEND

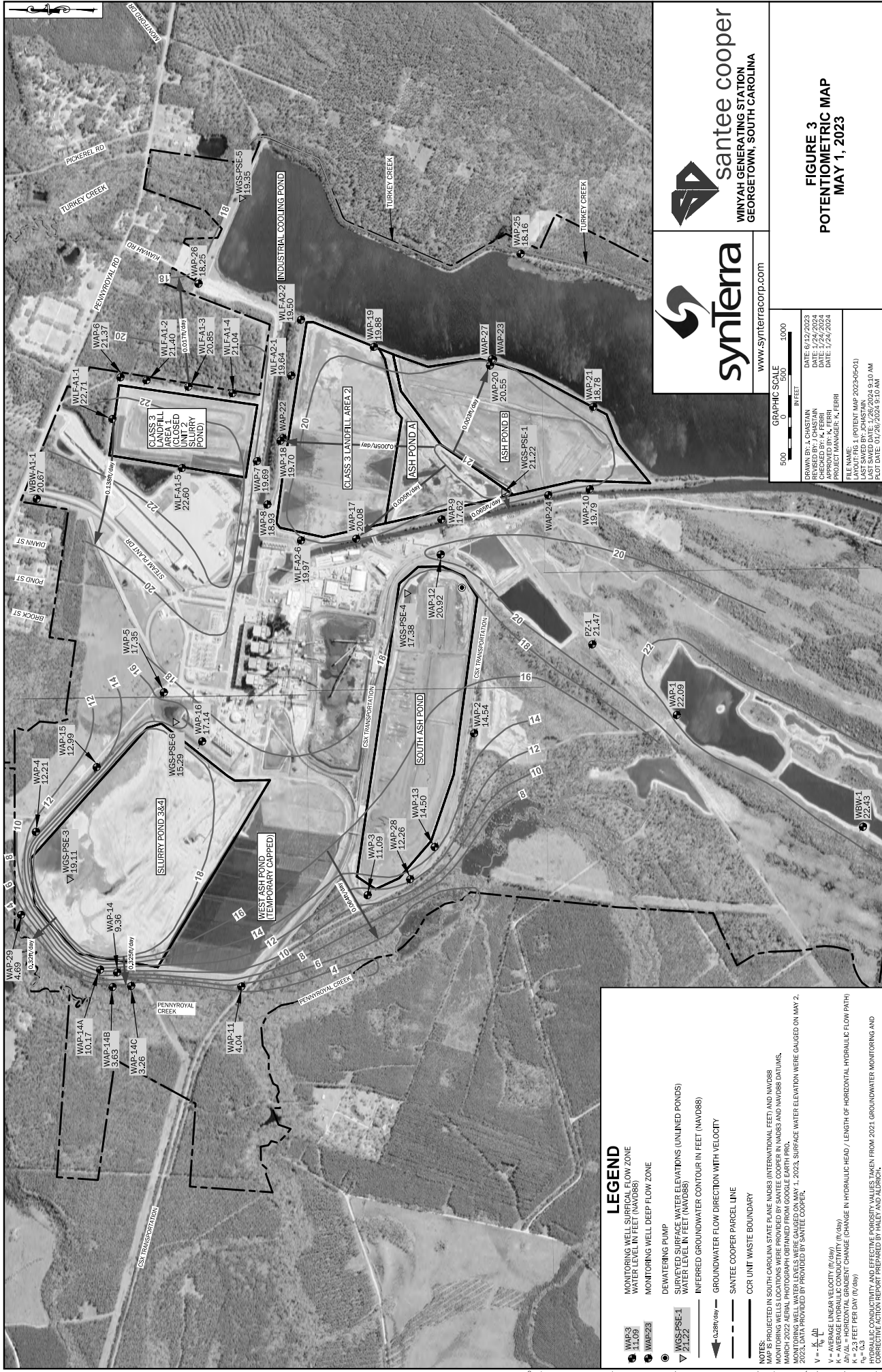
- WAP-3 12.87 MONITORING WELL SURFICIAL FLOW ZONE WATER LEVEL IN FEET (NAVD88)
- WAP-23 MONITORING WELL DEEP FLOW ZONE
- ⊙ DEWATERING PUMP
- ▽ WGSFSE-1 22.85 SURVEYED SURFACE WATER ELEVATIONS (UNLINED PONDS) WATER LEVEL IN FEET (NAVD88)
- 20 INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- ← 0.28ft/day GROUNDWATER FLOW DIRECTION WITH VELOCITY
- Santee Cooper Parcel Line
- Santee Cooper Waste Boundary
- CCR Unit Waste Boundary

NOTES:  
MAP IS PROJECTED IN SOUTH CAROLINA STATE PLANE NAD83 (INTERNATIONAL FEET) AND NAD88  
MONITORING WELLS LOCATIONS WERE PROVIDED BY SANTEE COOPER IN NAD83 AND NAD88 DATUMS.  
MARCH 2022 AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO.  
GROUNDWATER WATER LEVELS AND SURFACE WATER ELEVATION WERE PROVIDED BY SANTEE COOPER AND GAUGED ON FEBRUARY 13, 2023.

$V = \frac{K}{\mu} \frac{dh}{dx}$   
 $V$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $K$  = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)  
 $\mu$  = AVERAGE HYDRAULIC VISCOSITY (CENTIPOISE) CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)  
 $K = 2.3$  FEET PER DAY (ft/day)  
 $\mu = 0.3$

THIS DOCUMENT IS THE PROPERTY OF SANTEE COOPER AND IS LOANED FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALL AND ASSOCIATES.






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**FIGURE 3**  
**POTENTIOMETRIC MAP**  
**MAY 1, 2023**

**GRAPHIC SCALE**

500 0 500 1000  
FEET

**DATE:** 6/12/2023  
**DRAWN BY:** A. CHASTAIN  
**REVIEWED BY:** J. CHASTAIN  
**DATE:** 7/24/2024  
**APPROVED BY:** K. FERRI  
**DATE:** 7/24/2024  
**PROJECT MANAGER:** K. FERRI

**FILE NAME:** 1\_POTENT.MXD 2023-05-01  
**LAST SAVED BY:** JOHASTAIN  
**LAST SAVED DATE:** 7/26/2024 9:10 AM  
**PLOT DATE:** 07/26/2024 9:30 AM

### LEGEND

- Monitoring Well Surface Water Zone
- Monitoring Well Deep Flow Zone
- Monitoring Well Surface Water Level (NAVD88)
- Monitoring Well Deep Flow Zone
- DeWatersing Pump
- Surveyed Surface Water Elevations (Unlined Ponds)
- Water Level in Feet (NAVD88)
- Inferred Groundwater Contour in Feet (NAVD88)
- Groundwater Flow Direction with Velocity
- Santee Cooper Parcel Line
- CCR Unit Waste Boundary

**NOTES:**  
 MONITORING WELLS LOCATED IN SOUTH CAROLINA STATE (IN INTERNATIONAL FEET) AND NAVD88  
 MONITORING WELL LOCATIONS WERE PROVIDED BY SANTEE COOPER IN NAVD88 AND NAVD88 DATUMS,  
 MARCH 2022 AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO.  
 MONITORING WELL WATER LEVELS WERE GAUGED ON MAY 1, 2023. SURFACE WATER ELEVATION WERE GAUGED ON MAY 2,  
 2023. DATA PROVIDED BY PROVIDED BY SANTEE COOPER.

$V = \frac{K \cdot H}{L}$   
 $K = \text{AVERAGE LINEAR VELOCITY (ft/day)}$   
 $H = \text{AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)}$   
 $L = \text{LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH (ft)}$   
 $n = \text{HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY TALLEY AND ALDRICH}$   
 $n = 0.3$   
 $n = 0.3$





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GEORGETOWN, SOUTH CAROLINA



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**FIGURE 4**  
**POTENTIOMETRIC MAP**  
**JUNE 26, 2023**

DRAWN BY: J. CHASTAIN CHECKED BY: K. FERRI APPROVED BY: K. FERRI PROJECT MANAGER: K. FERRI	DATE: 6/21/2023 DATE: 1/24/2024 DATE: 1/24/2024 DATE: 1/24/2024
DRAWING NO.: 2023-06-26 LAST SAVED BY: CHASTAIN LAST DATE: 6/26/2023 11:41 AM PLOT DATE: 01/26/2024 9:12 AM	GRAPHIC SCALE 500 0 500 1000 IN FEET

**LEGEND**

- WAP-3 11.34 MONITORING WELL SURFICIAL FLOW ZONE WATER LEVEL IN FEET (NAVD88)
- WAP-23 MONITORING WELL DEEP FLOW ZONE
- DEWATERING PUMP
- WGS-PSE-1 SURVEYED SURFACE WATER ELEVATIONS (UNLINED PONDS) WATER LEVEL IN FEET (NAVD88)
- 20 INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- 0.28ft/day GROUNDWATER FLOW DIRECTION WITH VELOCITY
- Santee Cooper Parcel Line
- Santee Cooper Parcel Line
- CSR Unit Waste Boundary

**NOTES:**

- PROJECTED IN SOUTH CAROLINA STATE PLANE NAD83 (INTERNATIONAL FEET) AND NAVD88
- MONITORING WELLS LOCATIONS WERE PROVIDED BY SANTEE COOPER IN NAD83 AND NAVD88 DATUMS.
- MARCH 2022 AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO.
- MONITORING WELL WATER LEVELS AND SURFACE WATER ELEVATION WERE PROVIDED BY SANTEE COOPER AND GAUGED ON JAN 26, 2024.
- $V = \frac{K \cdot H}{L}$
- $V =$  AVERAGE LINEAR VELOCITY (ft/day)
- $K =$  AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
- $H =$  HEAD DIFFERENCE (CHANGE IN HYDRAULIC HEAD) / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH
- $L =$  LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH
- $n_e = 0.3$

HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CONCENTRIC GROUNDWATER TEST PREPARED BY THORNTON CONSULTANTS.





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WINYAH GENERATING STATION  
GEORGETOWN, SOUTH CAROLINA

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**FIGURE 5  
POTENTIOMETRIC MAP  
NOVEMBER 14, 2023**

GRAPHIC SCALE  
500 0 500 1000  
IN FEET

DRAWN BY: J. CHASTAN DATE: 12/19/2023  
 REVISIONS BY: J. CHASTAN DATE: 1/24/2024  
 APPROVED BY: K. FERRI DATE: 1/24/2024  
 PROJECT MANAGER: K. FERRI

FILE NAME: 1\_POTENT MAP 2023-11-14  
 LAST SAVED DATE: 1/26/2024 9:14 AM  
 COT DATE: 01/26/2024 9:14 AM

**LEGEND**

- WAP-3 10.58 MONITORING WELL SURFICIAL FLOW ZONE WATER LEVEL IN FEET (NAVD88)
- WAP-23 MONITORING WELL DEEP FLOW ZONE
- DEWATERING PUMP
- ▽ WGS-PSE-4 16.69 SURVEYED SURFACE WATER ELEVATIONS (UNLINED PONDS) WATER LEVEL IN FEET (NAVD88)
- 20 — INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- 0.028ft/day GROUNDWATER FLOW DIRECTION WITH VELOCITY
- SANTEE COOPER PARCEL LINE
- CCR LINT WASTE BOUNDARY

NOTES:  
 15 MONITORED IN SOUTH CAROLINA STATE PLANE (INTERNATIONAL FEET) AND NAVD88  
 MONITORING WELLS LOCATIONS WERE PROVIDED BY Santee Cooper in NAVD88 and NAVD88 DATUMS.  
 MARCH 2022 AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO.  
 MONITORING WELL WATER LEVELS AND SURFACE WATER ELEVATION WERE PROVIDED BY SANTEE COOPER AND GAUGED ON NOVEMBER 14, 2023.

$V = \frac{K \cdot \Delta H}{L}$   
 V = AVERAGE LINEAR VELOCITY (ft/day)  
 K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)  
 ΔH = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)  
 L = 5 FEET PER DAY (ft/day)  
 K = 4.3  
 HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY THLEY AND ALDRICH.

Santee Cooper 5577 Winyah Street, Dumas, SC 29543  
 Winyah Generating Station  
 POTENT MAP 2023-11-14.dwg  
 1/26/2024 9:14 AM



## **Appendix A – Statistical Analysis**



HALEY & ALDRICH, INC.  
400 Augusta Street  
Suite 100  
Greenville, SC 29601  
864.214.8750

## TECHNICAL MEMORANDUM

July 26, 2023

File No. 132892-100-006-02

**SUBJECT:** Statistical Evaluation of the February 2023 Semiannual Groundwater Detection Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 2

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February 2023 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 2. Data for this groundwater sampling event were validated on May 30, 2023 by Santee Cooper.

### BACKGROUND

The results of analytical testing performed on samples collected from the groundwater monitoring network were evaluated to determine whether there has been a statistically significant increase (SSI) over background for one or more detection monitoring constituents. The Class 3 Landfill Area 2 is a new landfill located in the footprint of the excavated Ash Pond A; the first receipt of waste was March 28, 2022. As the elevated levels of detected Appendix III constituents were identified downgradient of Class 3 Landfill Area 2 prior to the placement of CCR into the unit, a successful alternate source demonstration (ASD) was prepared 90 days after SSIs were identified. The ASD supported that Appendix III constituent concentrations downgradient of Class 3 Landfill Area 2 are attributable to the former, co-located Ash Pond A.

Using intrawell evaluations, sample data from the February 2023 semiannual groundwater sampling event for the downgradient monitoring wells were compared to the background limits. The results of the groundwater detection monitoring statistical evaluation are discussed below and provided in Table I.

### STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR unit (§257.93(f) (1-4)) represents a SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The selected statistical method used for these evaluations is the upper prediction limit (UPL). This statistical method was certified by Haley & Aldrich, Inc. on December 16, 2021.

An intrawell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The results of analytical testing performed on samples collected from the groundwater monitoring network were evaluated to determine whether a SSI exists for Appendix III constituents.

In order to statistically evaluate the analytical results, the prediction interval procedure uses a concentration limit for each constituent that is established from the distribution of the background data with a specified confidence level (e.g., 95 percent). The upper endpoint of a concentration limit is called the upper prediction limit (UPL). Depending on the background data distribution, parametric or non-parametric prediction limit procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via a transformation of the sample background data. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the prediction limit. If all the background data are non-detect, a maximum reporting limit (RL) may serve as an approximate UPL.

After testing for outliers, the UPLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed.<sup>1</sup> A visual inspection of the data was performed using distribution plots for the downgradient sample data. Based on our review, no sample data were identified as outliers that warranted removal from the dataset.

The groundwater analytical results for each sampling event from the background sample location (WAP-01 and WBW-01) were combined to calculate the UPL for each detected Appendix III constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UPL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through February 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.

## TREND ANALYSIS

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table I. In summary, approximately 96 percent of trends analyzed are identified as stable or decreasing for the compliance wells, whereas 2 percent of compliance wells demonstrated increasing trends. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSI. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

## RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix III constituents from the February 2023 detection monitoring event were compared to their respective

---

<sup>1</sup> Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.

background concentration (Table I). A sample concentration greater than the UPL is considered to represent a SSI. Intrawell comparisons were used for all downgradient wells and constituents.

SSIs were identified for the following Appendix III constituents:

- Calcium SSI at WLF-A2-6
- Chloride SSI at WLF-A2-6
- Sulfate SSI at WAP-19
- pH SSI at WAP-9
- Total Dissolved Solids (TDS) SSIs at WAP-09 and WAP-19

Groundwater monitoring wells WLF-A2-1 and WLF-A2-2 have been incorporated into this statistical analysis. WLF-A2-1 and WLF-A2-2 were installed to provide additional groundwater monitoring for new Class 3 Landfill Area 2 cells and baseline sampling was completed in 2022. The February 2023 sampling event was the first detection monitoring event for these two new wells. No SSIs were identified for WLF-A2-1 or WLF-A2-2.

As noted in the 2023 ASD, the results are not unexpected because the Class 3 Landfill Area 2 is located within the footprint of Ash Pond A, which is currently undergoing corrective action and closure. Notably, four constituents with SSIs were identified during the first semimanual event of 2023 (calcium, chloride, sulfate, and TDS), whereas during the second semiannual event of 2022, six were identified (boron, calcium, chloride, fluoride, sulfate, and TDS).

Ash Pond A was an unlined CCR impoundment that operated for over 40 years. As supported by the 2023 ASD, the former unit is contributing to the elevated concentrations. As such, the Class 3 Landfill Area 2 will remain in detection monitoring.

Enclosures:

Table I – WGS Class 3 Landfill Area 2 February 2023 Semiannual Detection Monitoring Data

[https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0\\_Winyah Generating Station/Statistical Analysis/2023-01/Class 3 Landfill Area 2/client draft/Client draft 2/2023-0726\\_HAI\\_WGS\\_Class III LF A2\\_Detection Monitoring Stats\\_F.docx](https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0_Winyah Generating Station/Statistical Analysis/2023-01/Class 3 Landfill Area 2/client draft/Client draft 2/2023-0726_HAI_WGS_Class III LF A2_Detection Monitoring Stats_F.docx)

## TABLE

TABLE I  
WGS CLASS 3 LANDFILL AREA 2  
FEBRUARY 2023 SEMIANNUAL DETECTION MONITORING SUMMARY

Table with columns: Location id, Frequency of Detection, Percent Non-Detects, Range of Non-Detect, Mean, 50th Percentile (Median), 95th Percentile, Maximum Detect, Variance, Standard Deviation, Coefficient of Variance, CCR MCL/RSI, Report Result Unit, Detection Exceedances (Y/N), Number of Detection Exceedances, Number of Non-Detection Exceedances, Outlier Presence, Outlier Removed, Trend, January 2023 Data, Detect?, Background Limit (Upper Prediction Limit) mg/L, and SSI. The table is divided into sections for CCR Appendix-III: Boron, Total (mg/L); CCR Appendix-III: Calcium, Total (mg/L); CCR Appendix-III: Chloride (mg/L); and CCR Appendix-III: Fluoride (mg/L).

**TABLE I**  
**WGS CLASS 3 LANDFILL AREA 2**  
**FEBRUARY 2023 SEMIANNUAL DETECTION MONITORING SUMMARY**

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSI	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	January 2023 Data	Detect?	Background Limit (Upper Prediction Limit) mg/L	Background Limit (Upper Prediction Limit) ug/L	SSI	Intra-well Analysis	
																								CCR Appendix II: Sulfate (mg/L)	CCR Appendix II: Total Dissolved Solids (TDS) (mg/L)
WBW-1	19/19	0%	-	5.89	5.34	10.02	10.9	3.015	1.736	0.2949	NA	mg/L	N	0	0	Yes	No	Increase							
WAP-01	19/22	14%	2-2	12.7	9.385	27.64	33.6	80.97	8.998	0.7112	NA	mg/L	N	0	0	No	No	Increase							
WAP-09	22/22	0%	-	166	138.5	262.5	357	4647	68.17	0.4109	NA	mg/L	N	0	0	Yes	No	Stable	263.00	Y	357.00	357000	No		
WAP-17	20/20	0%	-	763	715.5	1174	1810	97840	312.8	0.4097	NA	mg/L	N	0	0	Yes	No	Decrease	663.00	Y	1810.00	1810000	No		
WAP-18	19/19	0%	-	704	767	1070	1160	113300	336.6	0.478	NA	mg/L	N	0	0	No	No	Decrease	232.00	Y	1662.01	1662010	No		
WAP-19	19/19	0%	-	803	775	1018	1540	49700	222.9	0.2777	NA	mg/L	N	0	0	Yes	No	Stable	1540.00	Y	1228.42	1228420	Yes		
WLF-AZ-1	11/11	0%	-	338	279	667	739	33910	184.1	0.5449	NA	mg/L	N	0	0	No	No	Stable	278.00	Y	1134.04	1134040	No		
WLF-AZ-2	11/11	0%	-	344	342	540.5	552	19240	138.7	0.4031	NA	mg/L	N	0	0	No	No	Stable	342.00	Y	942.94	942939	No		
WLF-AZ-6	12/12	0%	-	54.8	50.45	102.5	133	950.1	31.47	0.5744	NA	mg/L	N	0	0	No	No	Stable	133.00	Y	138.35	138347	No		
WBW-1	15/18	17%	25-33.3	57	32.9	178.2	292.5	4640	68.12	1.195	NA	mg/L	N	0	0	Yes	No	Increase							
WAP-01	22/23	4%	100-100	64.9	51.25	131.5	234	2174	46.63	0.718	NA	mg/L	N	0	0	No	No	Stable							
WAP-09	22/22	0%	-	940	833	1161	2745	173500	416.5	0.4433	NA	mg/L	N	0	0	Yes	No	Stable	1168.00	Y	1112.20	1112200	Yes		
WAP-17	20/20	0%	-	1580	1615	2044	3140	249300	499.3	0.3159	NA	mg/L	N	0	0	Yes	No	Decrease	1301.00	Y	3403.49	3403490	No		
WAP-18	19/19	0%	-	1470	1645	2034	2182	283300	531.3	0.3609	NA	mg/L	N	0	0	No	No	Decrease	531.20	Y	3045.88	3045880	No		
WAP-19	19/19	0%	-	1630	1582	2171	2562	92230	303.7	0.1868	NA	mg/L	N	0	0	Yes	No	Stable	2562.00	Y	2321.83	2321830	Yes		
WLF-AZ-1	11/11	0%	-	965	718.8	1990	2125	340000	583.1	0.6043	NA	mg/L	N	0	0	No	No	Stable	800.00	Y	2125.00	2125000	No		
WLF-AZ-2	11/11	0%	-	865	892.5	1264	1281	101000	317.8	0.3676	NA	mg/L	N	0	0	No	No	Stable	1012.00	Y	2205.37	2205370	No		
WLF-AZ-6	12/12	0%	-	559	551.8	633.1	667.5	3379	58.13	0.104	NA	mg/L	N	0	0	Yes	No	Stable	605.00	Y	815.65	815646	No		



HALEY & ALDRICH, INC.  
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## TECHNICAL MEMORANDUM

December 19, 2023

File No. 132892-100-006-02

**SUBJECT:** Statistical Evaluation of the July 2023 Semiannual Groundwater Detection Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 2

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February 2023 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 2. Data for this groundwater sampling event were validated on September 20, 2023 by Santee Cooper.

### BACKGROUND

The results of analytical testing performed on samples collected from the groundwater monitoring network were evaluated to determine whether there has been a statistically significant increase (SSI) over background for one or more detection monitoring constituents. The Class 3 Landfill Area 2 is a new landfill located in the footprint of the excavated Ash Pond A; the first receipt of waste was March 28, 2022. As the elevated levels of detected Appendix III constituents were identified downgradient of Class 3 Landfill Area 2 prior to the placement of CCR into the unit, a successful alternate source demonstration (ASD) was prepared 90 days after SSIs were identified. The ASD supported that Appendix III constituent concentrations downgradient of Class 3 Landfill Area 2 are attributable to the former, co-located Ash Pond A.

Using intrawell evaluations, sample data from the July 2023 semiannual groundwater sampling event for the downgradient monitoring wells were compared to the background limits. The results of the groundwater detection monitoring statistical evaluation are discussed below and provided in Table I.

### STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR unit (§257.93(f) (1-4)) represents a SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The selected statistical method used for these evaluations is the upper prediction limit (UPL). This statistical method was certified by Haley & Aldrich, Inc. on December 16, 2021.

An intrawell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The results of analytical testing performed on samples collected from the groundwater monitoring network were evaluated to determine whether a SSI exists for Appendix III constituents.



In order to statistically evaluate the analytical results, the prediction interval procedure uses a concentration limit for each constituent that is established from the distribution of the background data with a specified confidence level (e.g., 95 percent). The upper endpoint of a concentration limit is called the upper prediction limit (UPL). Depending on the background data distribution, parametric or non-parametric prediction limit procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via a transformation of the sample background data. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the prediction limit. If all the background data are non-detect, a maximum reporting limit (RL) may serve as an approximate UPL.

After testing for outliers, the UPLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed.<sup>1</sup> A visual inspection of the data was performed using distribution plots for the downgradient sample data. Based on our review, no sample data were identified as outliers that warranted removal from the dataset.

The groundwater analytical results for each sampling event from the background sample location (WAP-01 and WBW-01) were combined to calculate the UPL for each detected Appendix III constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UPL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.

## TREND ANALYSIS

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table I. In summary, approximately 87 percent of trends analyzed are identified as stable or decreasing for the compliance wells, whereas 4 percent of compliance wells demonstrated increasing trends. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSI. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

## RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix III constituents from the July 2023 detection monitoring event were compared to their respective

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<sup>1</sup> Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.

background concentration (Table I). A sample concentration greater than the UPL is considered to represent a SSI. Intrawell comparisons were used for downgradient wells and constituents.

SSIs were identified for the following Appendix III constituents:

- Calcium SSI at WLF-A2-6
- Chloride SSI at WLF-A2-6
- Sulfate SSI at WAP-19 and WLF-A2-6
- Total Dissolved Solids (TDS) SSIs at WAP-09 and WAP-19

Groundwater monitoring wells WLF-A2-1 and WLF-A2-2 have been incorporated into this statistical analysis. WLF-A2-1 and WLF-A2-2 were installed to provide additional groundwater monitoring for new Class 3 Landfill Area 2 cells and baseline sampling was completed in 2022. The February 2023 sampling event was the first detection monitoring event for these two new wells. No SSIs were identified for WLF-A2-1 or WLF-A2-2.

As noted in the 2023 ASD, the results are not unexpected because the Class 3 Landfill Area 2 is located within the footprint of Ash Pond A, which is currently undergoing corrective action and closure. Ash Pond A was an unlined CCR impoundment that operated for over 40 years. As supported by the 2023 ASD, the former unit is contributing to the elevated concentrations. As such, the Class 3 Landfill Area 2 will remain in detection monitoring.

Enclosures:

Table I – WGS Class 3 Landfill Area 2 July 2023 Semiannual Detection Monitoring Data

[https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0\\_Winyah Generating Station/Statistical Analysis/2023-10/Class 3 Landfill Area 2/client final/2023-1219\\_HAI\\_WGS\\_Class III LF A2\\_Detection Monitoring Stats\\_F.docx](https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0_Winyah Generating Station/Statistical Analysis/2023-10/Class 3 Landfill Area 2/client final/2023-1219_HAI_WGS_Class III LF A2_Detection Monitoring Stats_F.docx)

## TABLE



TABLE I  
WGS CLASS 3 LANDFILL AREA 2  
JULY 2023 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/BSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	July 2023 Data	Detect?	Background Limit (Upper Prediction Limit) mg/L	Background Limit (Upper Prediction Limit) µg/L	SSI	
																								Intra-well Analysis
<b>CCR Appendix III- Sulfate (mg/L)</b>																								
WBW-1	20/20	0%	-	6.31	5.34	11.07	14.4	6.479	2.545	0.4031	NA	mg/L	N	0	0	Yes	No	Increase						
WAP-01	20/23	13%	2-2	13.5	9.57	30.77	33.6	92.09	9.596	0.7133	NA	mg/L	N	0	0	No	No	Increase	296.00	Y	357.00	357.000	No	
WAP-09	23/23	0%	-	172	144	292.7	357	5172	71.91	0.4192	NA	mg/L	N	0	0	Yes	No	Stable	651.00	Y	1810.00	1810.000	No	
WAP-17	21/21	0%	-	758	692	1140	1810	93550	305.9	0.4035	NA	mg/L	N	0	0	Yes	No	Decrease	651.00	Y	1662.01	1662.010	No	
WAP-18	20/20	0%	-	681	766.5	1065	1160	118500	344.2	0.5058	NA	mg/L	N	0	0	Yes	Yes	Decrease	232.00	Y	1228.42	1228.420	No	
WAP-19	20/20	0%	-	843	787.5	1544	1610	79680	282.3	0.3348	NA	mg/L	N	0	0	Yes	No	Stable	1610.00	Y	1134.04	1134.040	Yes	
WLF-A2-1	12/12	0%	-	320	278.5	348.20	739	34820	186.6	0.5837	NA	mg/L	N	0	0	No	No	Stable	119.00	Y	942.94	942.940	No	
WLF-A2-2	12/12	0%	-	348	346.5	539.3	552	17670	132.9	0.382	NA	mg/L	N	0	0	No	No	Stable	391.00	Y	2205.37	2205.370	No	
WLF-A2-6	13/13	0%	-	65	53	154.6	187	2252	47.46	0.7306	NA	mg/L	N	0	0	Yes	No	Increase	187.00	Y	138.35	138.347	Yes	
<b>CCR Appendix III- Total Dissolved Solids (TDS) (mg/L)</b>																								
WBW-1	16/19	16%	25-31.3	56.3	33.3	171.4	292.5	4394	66.28	1.178	NA	mg/L	N	0	0	Yes	No	Increase						
WAP-01	23/24	4%	100-100	66	52.5	129.8	2106	2106	45.89	0.6955	NA	mg/L	N	0	0	Yes	No	Stable	1136.00	Y	1112.20	1112.200	Yes	
WAP-09	23/23	0%	-	948	836.6	1165	2745	167300	409	0.4314	NA	mg/L	N	0	0	Yes	No	Stable	1271.00	Y	3403.49	3403.490	No	
WAP-17	21/21	0%	-	1570	1614	1986	3140	241300	491.3	0.3138	NA	mg/L	N	0	0	Yes	No	Decrease	478.80	Y	3045.88	3045.880	No	
WAP-19	20/20	0%	-	1420	1589	2026	2182	316800	562.8	0.3957	NA	mg/L	N	0	0	No	No	Stable	2818.00	Y	2321.83	2321.830	Yes	
WLF-A2-1	12/12	0%	-	910	716.9	1977	2125	343200	587.5	0.6457	NA	mg/L	N	0	0	No	No	Stable	306.20	Y	2125.00	2125.000	No	
WLF-A2-2	12/12	0%	-	872	921.3	1262	1281	92440	304	0.3488	NA	mg/L	N	0	0	No	No	Stable	950.00	Y	2205.37	2205.370	No	
WLF-A2-6	13/13	0%	-	569	552.5	674.5	685	4321	65.74	0.1156	NA	mg/L	N	0	0	Yes	No	Stable	685.00	Y	815.65	815.646	No	

## **Appendix B – Laboratory Analytical Results**



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Moncks Corner, SC 29461-2901  
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**SANTEE COOPER ANALYTICAL SERVICES**

**CERTIFICATE OF ANALYSIS**

**LAB CERTIFICATION #08552**

**Sample #** AF50602    **Location:** WGS well WLF-A2-1    **Date:** 12/07/2022    **Sample Collector:** WJK/BM

**Loc. Code** WLF-A2-1    **Time:** 10:07

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	62.1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Barium	62.1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Calcium	108.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Cobalt	2.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Iron	1770	ug/L	12/13/2022	EUROFINS SAV	EPA 6010D
Lead	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Boron	1760	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Lithium	27.8	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	12/13/2022	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	12/15/2022	KCWELLS	EPA 300.0
Chloride	68.2	mg/L	12/15/2022	KCWELLS	EPA 300.0
Sulfate	279	mg/L	12/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	550.0	mg/L	12/15/2022	SJBROWN	SM 2540C
Radium 226	1.31	pCi/L	12/19/2022	GEL	EPA 903.1 Mod
Radium 228	2.21	pCi/L	12/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.52	pCi/L	01/09/2023	GEL	EPA 903.1 Mod
pH	5.13	SU	12/06/2022	MDG	

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:  Validation date: \_\_\_\_\_  
Linda Williams - Manager Analytical Services

*Authorized Signature Only- Not Valid Unless Signed*



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF50603 Location: WGS well WLF-A2-1 Date: 12/07/2022 Sample Collector: WJK/BM

Loc. Code WLF-A2-1 DUP Time: 10:12

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	69.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Barium	67.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Calcium	106.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Cobalt	2.2	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Iron	1670	ug/L	12/13/2022	EUROFINS SAV	EPA 6010D
Lead	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Boron	1700	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Lithium	27.0	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	12/13/2022	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	12/15/2022	KCWELLS	EPA 300.0
Chloride	66.4	mg/L	12/15/2022	KCWELLS	EPA 300.0
Sulfate	291	mg/L	12/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	577.5	mg/L	12/15/2022	SJBROWN	SM 2540C
Radium 226	0.922	pCi/L	12/19/2022	GEL	EPA 903.1 Mod
Radium 228	3.11	pCi/L	12/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.03	pCi/L	01/09/2023	GEL	EPA 903.1 Mod

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:  Validation date: \_\_\_\_\_  
Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed



**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF50604    **Location:** WGS well WLF-A2-2    **Date:** 12/06/2022    **Sample Collector:** WJK/BM

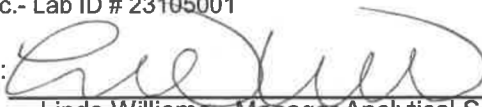
**Loc. Code** WLF-A2-2    **Time:** 14:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	186	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Barium	84.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Calcium	184.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Iron	5760	ug/L	12/13/2022	EUROFINS SAV	EPA 6010D
Lead	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Boron	2220	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Lithium	183	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	12/13/2022	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	12/07/2022	KCWELLS	EPA 300.0
Chloride	101	mg/L	12/07/2022	KCWELLS	EPA 300.0
Sulfate	351	mg/L	12/07/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	880.0	mg/L	12/15/2022	SJBROWN	SM 2540C
Radium 226	1.42	pCi/L	12/19/2022	GEL	EPA 903.1 Mod
Radium 228	1.38	pCi/L	12/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.80	pCi/L	01/09/2023	GEL	EPA 903.1 Mod
pH	5.92	SU	12/06/2022	MDG	

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date:

Linda Williams - Manager Analytical Services

*Authorized Signature Only- Not Valid Unless Signed*

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56394

Location: GW Well WAP-1

Date: 02/14/2023

Sample Collector: ZDM/ML

Loc. Code WAP-1

Time: 12:33

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	1.2	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Aluminum - Dissolved	1.31	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Barium	74.6	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Barium Dissolved	78.9	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Beryllium	<0.50	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Calcium	10.5	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Calcium Dissolved	11.2	mg/L	03/21/2023	SJHATCHE	EPA 6020B
Cadmium	<0.5	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	0.7	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Cobalt Dissolved	0.70	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Chromium	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<1.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Antimony - Dissolved	<5.0	ug/L	03/21/2023	SJHATCHE	EPA 200.8
Selenium	<10.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Thallium	<1.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Thallium - Dissolved	<5.0	ug/L	03/21/2023	SJHATCHE	EPA 200.8
Boron	37.1	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Boron Dissolved	39.7	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Lithium Dissolved	<5.00	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Molybdenum Dissolved	<5.00	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	03/20/2023	EUROFINS SAV	EPA 7470
Iron	2930	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Iron - Dissolved	2940	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Potassium	0.6	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Potassium Dissolved	0.70	mg/L	03/21/2023	SJHATCHE	EPA 6020B
Sodium	5.5	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Sodium Dissolved	5.65	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	1.0	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Magnesium Dissolved	1.1	mg/L	03/21/2023	SJHATCHE	EPA 6020B
Manganese	26.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Manganese Dissolved	25.7	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Zinc	29.3	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Zinc Dissolved	28.2	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Copper	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Nickel	<0.5	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Nickel - Dissolved	<0.5	ug/L	03/21/2023	SJHATCHE	EPA 200.8
Sulfide	<0.1	mg/L	02/20/2023	GEL	EPA 9034
Total Organic Carbon	1.30	mg/L	02/21/2023	GEL	SM 5310B
Dissolved Organic Carbon	1.31	mg/L	02/22/2023	GEL	SM 5310B

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56394      Location: GW Well WAP-1      Date: 02/14/2023      Sample Collector: ZDM/ML  
Loc. Code WAP-1      Time: 12:33

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Sulfate	33.6	mg/L	02/16/2023	KCWELLS	EPA 300.0
Chloride	13.4	mg/L	02/16/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	100.0	mg/L	02/23/2023	SJBROWN	SM 2540C
Radium 226	0.0794	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Radium 228	1.40	pCi/L	03/14/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.48	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	02/23/2023	GEL	SM2320B
Alkalinity	<4	mg/L	02/23/2023	GEL	SM 2320B
Bicarbonate Alkalinity	<4	mg/L	02/23/2023	GEL	SM 2320B
Total Phosphorus	<0.025	mg/L	02/22/2023	KCWELLS	EPA 365.1
SiO2	6060	%	03/30/2023	EUROFINS SAV	ASTM D3682
SiO2 Dissolved	6060	ug/L	03/30/2023	EUROFINS SAV	EPA 200.7
Silver	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/09/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56431    **Location:** GW Well WBW-1    **Date:** 02/14/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WBW-1    **Time:** 13:51

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.845	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	0.793	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	<3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	<3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	31.7	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	30.1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	2.79	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium Dissolved	3.56	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	1.52	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	1.6	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Selenium	<20.0	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Selenium - Dissolved	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Boron	54.7	ug/L	04/20/2023	LCWILLIA	EPA 6010D
Boron Dissolved	68	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Lithium	<5	ug/L	04/20/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	<5	ug/L	03/21/2023	LCWILLIA	EPA 6010D
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Mercury	0.200	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	251	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Iron - Dissolved	<100	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	<1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium Dissolved	<1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Sodium	2.67	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Sodium Dissolved	2.72	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	0.902	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium Dissolved	0.898	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese	44.6	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	41.0	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	02/20/2023	GEL	EPA 9034
Total Organic Carbon	<1	mg/L	02/21/2023	GEL	SM 5310B
Dissolved Organic Carbon	1.01	mg/L	02/22/2023	GEL	SM 5310B

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56431    **Location:** GW Well WBW-1    **Date:** 02/14/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WBW-1    **Time:** 13:51

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Nitrate	0.52	mg/L	02/16/2023	KCWELLS	EPA 300.0
Sulfate	9.92	mg/L	02/16/2023	KCWELLS	EPA 300.0
Chloride	6.60	mg/L	02/16/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	87.50	mg/L	02/23/2023	SJBROWN	SM 2540C
Radium 226	0.668	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Radium 228	1.18	pCi/L	03/14/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.84	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	02/23/2023	GEL	SM2320B
Alkalinity	<4	mg/L	02/23/2023	GEL	SM 2320B
Bicarbonate Alkalinity	<4	mg/L	02/23/2023	GEL	SM 2320B
Total Phosphorus	<0.025	mg/L	02/22/2023	KCWELLS	EPA 365.1
SiO2	4650	%	03/30/2023	EUROFINS SAV	ASTM D3682
SiO2 Dissolved	4650	ug/L	03/30/2023	EUROFINS SAV	EPA 200.7
Silver	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56402

**Location:** GW Well WAP-9

**Date:** 02/27/2023

**Sample Collector:** ZDM/ML

**Loc. Code** WAP-9

**Time:** 12:47

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.4	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Aluminum - Dissolved	0.330	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	29.5	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Arsenic Dissolved	30.5	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Barium	78.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Barium Dissolved	77.9	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.50	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Calcium	203	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Calcium Dissolved	199	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Chromium	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<1.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Selenium	<10.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Thallium	<1.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Boron	2630	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Boron Dissolved	2550	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	37.4	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Lithium Dissolved	37.7	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/23/2023	SJHATCHE	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	22100	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Iron - Dissolved	21600	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Potassium	10.7	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Potassium Dissolved	11.2	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Sodium	34.5	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Sodium Dissolved	34.6	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	24.7	mg/L	03/16/2023	SJHATCHE	EPA 6020B
Magnesium Dissolved	23.6	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Manganese	265	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Manganese Dissolved	259	ug/L	03/21/2023	SJHATCHE	EPA 6020B
Zinc	<10.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Nickel	1.0	ug/L	03/16/2023	SJHATCHE	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/06/2023	GEL	EPA 9034
Total Organic Carbon	15.3	mg/L	03/11/2023	GEL	SM 5310B
Dissolved Organic Carbon	15.8	mg/L	03/10/2023	GEL	SM 5310B

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

**Sample #** AF56402    **Location:** GW Well WAP-9    **Date:** 02/27/2023    **Sample Collector:** ZDM/ML  
**Loc. Code** WAP-9    **Time:** 12:47

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	263	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	163	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1168	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	1.26	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	1.51	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.78	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	03/09/2023	GEL	SM2320B
Alkalinity	208	mg/L	03/09/2023	GEL	SM 2320B
Bicarbonate Alkalinity	208	mg/L	03/09/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56416 Location: GW Well WAP-17 Date: 03/08/2023 Sample Collector: ZDM/ML

Loc. Code WAP-17 Time: 10:09

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	85.9	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	74.8	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	44.4	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	42.0	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	260.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	67	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/24/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Boron	4330	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	3870	ug/L	04/06/2023	EUROFINS SAV	EPA 6010D
Lithium	73.3	ug/L	04/20/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	69.8	ug/L	04/19/2023	LCWILLIA	EPA 6010D
Molybdenum	18.0	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	1570	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	891	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Potassium	13.8	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	2.2	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Sodium	69.7	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	11.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	38.1	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	2.92	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Manganese	82.2	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	73.2	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	413	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	182	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/14/2023	SUB_GEL	EPA 9034
Total Organic Carbon	10.1	mg/L	03/21/2023	SUB_GEL	SM 5310B
Dissolved Organic Carbon	10.1	mg/L	03/16/2023	SUB_GEL	SM 5310B



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

**Sample #** AF56416    **Location:** GW Well WAP-17    **Date:** 03/08/2023    **Sample Collector:** ZDM/ML  
**Loc. Code** WAP-17    **Time:** 10:09

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Sulfate	663	mg/L	03/10/2023	KCWELLS	EPA 300.0
Chloride	189	mg/L	03/10/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1301	mg/L	03/21/2023	KCWELLS	SM 2540C
Radium 226	0.145	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Radium 228	0.331	pCi/L	04/04/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.476	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<5.71	mg/kg	03/13/2023	SUB_GEL	SM2320B
Alkalinity	67.4	mg/L	03/13/2023	SUB_GEL	SM 2320B
Bicarbonate Alkalinity	67.4	mg/L	03/13/2023	SUB_GEL	SM 2320B
Total Phosphorus	<0.025	mg/L	03/28/2023	KCWELLS	EPA 365.1
SiO2	4700	%	03/30/2023	EUROFINS SAV	ASTM D3682
SiO2 Dissolved	4700	ug/L	03/30/2023	EUROFINS SAV	EPA 200.7
Silver	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56417    **Location:** GW Well WAP-17    **Date:** 03/08/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WAP-17    **DUP**    **Time:** 10:14

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	85.8	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	84.0	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	45.4	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	50.0	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	260.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	270	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Boron	4470	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	3870	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	73.9	ug/L	04/20/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	70.5	ug/L	03/24/2023	LCWILLIA	EPA 6010D
Molybdenum	21.2	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	21	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	1740	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	1940	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	13.8	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	14.1	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Sodium	69.4	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	72.3	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	37.6	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	38.9	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Manganese	84.4	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	78.4	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	27.9	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/14/2023	SUB_GEL	EPA 9034
Total Organic Carbon	10.5	mg/L	03/21/2023	SUB_GEL	SM 5310B
Dissolved Organic Carbon	10.7	mg/L	03/16/2023	SUB_GEL	SM 5310B

## SANTEE COOPER ANALYTICAL SERVICES

## CERTIFICATE OF ANALYSIS

## LAB CERTIFICATION #08552

**Sample #** AF56417    **Location:** GW Well WAP-17    **Date:** 03/08/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WAP-17    **DUP**    **Time:** 10:14

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Sulfate	661	mg/L	03/10/2023	KCWELLS	EPA 300.0
Chloride	185	mg/L	03/10/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1402	mg/L	03/15/2023	KCWELLS	SM 2540C
Radium 226	0.690	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Radium 228	2.50	pCi/L	04/04/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.19	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<5.71	mg/kg	03/13/2023	SUB_GEL	SM2320B
Alkalinity	59.4	mg/L	03/13/2023	SUB_GEL	SM 2320B
Bicarbonate Alkalinity	59.4	mg/L	03/13/2023	SUB_GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56418    **Location:** GW Well WAP-18    **Date:** 03/09/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WAP-18    **Time:** 12:07

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.134	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	0.130	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	249	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	229	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	127	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	133	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	94.40	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	96	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	2.17	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	2.2	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Boron	1530	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	1340	ug/L	03/25/2023	EUROFINS SAV	EPA 6010D
Lithium	76.7	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Lithium Dissolved	87.9	ug/L	03/25/2023	EUROFINS SAV	EPA 6010D
Molybdenum	90.2	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	92	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	840	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	788	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	7.42	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	7.7	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Sodium	25.2	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	25.3	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	7.51	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	7.53	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese	113	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	100	ug/L	03/25/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/14/2023	SUB_GEL	EPA 9034
Total Organic Carbon	10.3	mg/L	03/21/2023	SUB_GEL	SM 5310B
Dissolved Organic Carbon	10.1	mg/L	03/16/2023	SUB_GEL	SM 5310B

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56418    **Location:** GW Well WAP-18    **Date:** 03/09/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WAP-18    **Time:** 12:07

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/17/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/17/2023	KCWELLS	EPA 300.0
Nitrate-Nitrite Cadmium Reduction	<0.2	mg/L	03/13/2023	GEL	EPA 353.2
Sulfate	232	mg/L	03/23/2023	KCWELLS	EPA 300.0
Chloride	47.1	mg/L	03/23/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/17/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	521.2	mg/L	03/24/2023	KCWELLS	SM 2540C
Radium 226	1.09	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Radium 228	0.0769	pCi/L	04/04/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.17	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<5.71	mg/kg	03/13/2023	SUB_GEL	SM2320B
Alkalinity	32.0	mg/L	03/13/2023	SUB_GEL	SM 2320B
Bicarbonate Alkalinity	32.0	mg/L	03/13/2023	SUB_GEL	SM 2320B
Total Phosphorus	<0.025	mg/L	03/30/2023	KCWELLS	EPA 365.1
SiO2	5440	%	03/30/2023	EUROFINS SAV	ASTM D3682
SiO2 Dissolved	5440	ug/L	03/30/2023	EUROFINS SAV	EPA 200.7
Silver	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

 Analysis Validated:  Validation date: 05/08/2023  
 Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56419 Location: GW Well WAP-19 Date: 03/07/2023 Sample Collector: ZDM/ML

Loc. Code WAP-19 Time: 14:51

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.672	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	474	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	103	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	83.9	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	71.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	601.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	535	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	1.29	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	1.3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/24/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Boron	4200	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	3430	ug/L	04/06/2023	EUROFINS SAV	EPA 6010D
Lithium	234	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Lithium Dissolved	223	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Molybdenum	94.7	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	56	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	19700	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	1430	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Potassium	22.2	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	19.7	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Sodium	44.9	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	41.7	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	88.7	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	78.8	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Manganese	1020	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	815	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	24.2	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/13/2023	GEL	EPA 9034
Total Organic Carbon	10.6	mg/L	03/21/2023	GEL	SM 5310B
Dissolved Organic Carbon	8.47	mg/L	03/16/2023	GEL	SM 5310B

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56419    Location: GW Well WAP-19    Date: 03/07/2023    Sample Collector: ZDM/ML  
Loc. Code WAP-19    Time: 14:51

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/10/2023	KCWELLS	EPA 300.0
Sulfate	1540	mg/L	03/10/2023	KCWELLS	EPA 300.0
Chloride	45.5	mg/L	03/10/2023	KCWELLS	EPA 300.0
Fluoride	0.21	mg/L	03/10/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	2562	mg/L	03/15/2023	KCWELLS	SM 2540C
Radium 226	0.809	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Radium 228	1.89	pCi/L	04/04/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.70	pCi/L	04/11/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<5.71	mg/kg	03/13/2023	GEL	SM2320B
Alkalinity	222	mg/L	03/13/2023	GEL	SM 2320B
Bicarbonate Alkalinity	222	mg/L	03/13/2023	GEL	SM 2320B
Total Phosphorus	0.28	mg/L	03/28/2023	KCWELLS	EPA 365.1
SiO2	7130	%	03/30/2023	EUROFINS SAV	ASTM D3682
SiO2 Dissolved	7130	ug/L	03/30/2023	EUROFINS SAV	EPA 200.7
Silver	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56439 Location: WGS well WLF-A2-1 Date: 03/01/2023 Sample Collector: ZDM/ML

Loc. Code WLF-A2-1 Time: 10:22

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	1.00	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	0.850	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	42.3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	40.1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	104	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	90.0	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	138.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	126	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	6.88	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	6.6	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/24/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Boron	2800	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	2470	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	50.1	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	49.6	ug/L	04/19/2023	LCWILLIA	EPA 6010D
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	9540	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	7900	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Potassium	7.79	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	7.0	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Sodium	38.3	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	35.8	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	14.6	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	13.0	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Manganese	167	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	153	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	67.1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	43.1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/07/2023	SUB_GEL	EPA 9034
Total Organic Carbon	5.31	mg/L	03/11/2023	SUB_GEL	SM 5310B
Dissolved Organic Carbon	5.75	mg/L	03/10/2023	SUB_GEL	SM 5310B



**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**

**Sample #** AF56439    **Location:** WGS well WLF-A2-1    **Date:** 03/01/2023    **Sample Collector:** ZDM/ML  
**Loc. Code** WLF-A2-1    **Time:** 10:22

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	278	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	142	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	800.0	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	0.414	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	0.580	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.994	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	03/09/2023	SUB_GEL	SM2320B
Alkalinity	12.2	mg/L	03/09/2023	SUB_GEL	SM 2320B
Bicarbonate Alkalinity	12.2	mg/L	03/09/2023	SUB_GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56441    **Location:** WGS well WLF-A2-2    **Date:** 03/01/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WLF-A2-2    **Time:** 11:45

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	182	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	177	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium	78.6	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	76.2	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	191.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	174	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/24/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Boron	2330	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	2010	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	121	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Lithium Dissolved	140	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	5280	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	4580	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Potassium	5.50	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	5.0	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Sodium	24.4	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	22.9	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	10.9	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	9.73	mg/L	03/24/2023	EUROFINS SAV	EPA 6020B
Manganese	324	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	299	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/07/2023	SUB_GEL	EPA 9034
Total Organic Carbon	9.35	mg/L	03/11/2023	SUB_GEL	SM 5310B
Dissolved Organic Carbon	10.2	mg/L	03/10/2023	SUB_GEL	SM 5310B

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF56441    **Location:** WGS well WLF-A2-2    **Date:** 03/01/2023    **Sample Collector:** ZDM/ML

**Loc. Code** WLF-A2-2    **Time:** 11:45

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	342	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	98.9	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1012	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	0.747	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	0.269	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.02	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO <sub>3</sub>	<4	mg/kg	03/09/2023	SUB_GEL	SM2320B
Alkalinity	62.8	mg/L	03/09/2023	SUB_GEL	SM 2320B
Bicarbonate Alkalinity	62.8	mg/L	03/09/2023	SUB_GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callicot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF56442 Location: WGS well WLF-A2-6 Date: 02/16/2023 Sample Collector: ZDM/MDG

Loc. Code WLF-A2-6 Time: 14:07

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	<3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	3.6	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B
Barium	32.6	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	34.7	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	166.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	162	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Boron	245	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	245	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	10.9	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	10.5	ug/L	04/19/2023	LCWILLIA	EPA 6010D
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	450	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	286	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	4.29	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	4.2	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Sodium	21.9	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	21.5	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	7.73	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	7.61	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Manganese	58.2	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	52.6	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	02/20/2023	GEL	EPA 9034
Total Organic Carbon	15.9	mg/L	02/21/2023	GEL	SM 5310B
Dissolved Organic Carbon	15.9	mg/L	02/22/2023	GEL	SM 5310B

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample # AF56442    Location: WGS well WLF-A2-6    Date: 02/16/2023    Sample Collector: ZDM/MDG**
**Loc. Code WLF-A2-6    Time: 14:07**

Analysis	Result	Units	Test Date	Analyst	Method
Nitrate-Nitrite Cadmium Reduction	<0.2	mg/L	02/22/2023	GEL	EPA 353.2
Sulfate	133	mg/L	02/24/2023	KCWELLS	EPA 300.0
Chloride	32.7	mg/L	02/24/2023	KCWELLS	EPA 300.0
Fluoride	0.11	mg/L	02/24/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	605.0	mg/L	02/23/2023	SJBROWN	SM 2540C
Radium 226	0.206	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Radium 228	1.77	pCi/L	03/14/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.98	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	02/23/2023	GEL	SM2320B
Alkalinity	268	mg/L	02/23/2023	GEL	SM 2320B
Bicarbonate Alkalinity	268	mg/L	02/23/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56443    **Location:** WGS well WLF-A2-6    **Date:** 02/16/2023    **Sample Collector:** ZDM/MDG

**Loc. Code** WLF-A2-6    **DUP**    **Time:** 14:12

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Aluminum - Dissolved	0.240	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7
Arsenic	<3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	4.5	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B
Barium	33.8	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Barium Dissolved	39.2	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Calcium	160.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Calcium Dissolved	166	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	0.72	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Boron	256	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	253	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	12.0	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	11.4	ug/L	04/19/2023	LCWILLIA	EPA 6010D
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	302	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	359	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	4.05	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	4.2	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Sodium	20.7	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	21.5	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	7.59	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	7.85	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Manganese	57.3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	53.2	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	02/20/2023	GEL	EPA 9034
Total Organic Carbon	15.7	mg/L	02/21/2023	GEL	SM 5310B
Dissolved Organic Carbon	15.6	mg/L	02/22/2023	GEL	SM 5310B

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF56443    **Location:** WGS well WLF-A2-6    **Date:** 02/16/2023    **Sample Collector:** ZDM/MDG

**Loc. Code** WLF-A2-6    **DUP**    **Time:** 14:12

<b>Analysis</b>	<b>Result</b>	<b>Units</b>	<b>Test Date</b>	<b>Analyst</b>	<b>Method</b>
Nitrate-Nitrite Cadmium Reduction	<0.2	mg/L	02/22/2023	GEL	EPA 353.2
Sulfate	125	mg/L	02/24/2023	KCWELLS	EPA 300.0
Chloride	32.3	mg/L	02/24/2023	KCWELLS	EPA 300.0
Fluoride	0.11	mg/L	02/24/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	625.0	mg/L	02/23/2023	SJBROWN	SM 2540C
Radium 226	0.331	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Radium 228	0.313	pCi/L	03/14/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.644	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	02/23/2023	GEL	SM2320B
Alkalinity	271	mg/L	02/23/2023	GEL	SM 2320B
Bicarbonate Alkalinity	271	mg/L	02/23/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validation date: 05/08/2023

Linda Williams - Manager Analytical Services

**Authorized Signature Only- Not Valid Unless Signed**

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF68711    **Location:** GW Well WAP-1    **Date:** 06/27/2023    **Sample Collector:** WJK/ML


**Loc. Code** WAP-1    **Time:** 11:26

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	1.14	mg/L	08/08/2023	EUROFINS SAV	EPA 6020B
Arsenic	8.50	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	77.1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	8.49	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	0.595	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	2200	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Magnesium	0.733	mg/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	41.0	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	07/07/2023	KCWELLS	EPA 300.0
Chloride	10.5	mg/L	07/07/2023	KCWELLS	EPA 300.0
Sulfate	31.1	mg/L	07/07/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	90.00	mg/L	07/05/2023	NTCHIN	SM 2540C
Radium 226	1.85	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
Radium 228	-0.145	pCi/L	07/17/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.85	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
pH	4.51	SU	06/27/2023	WJK/ML	

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

  
 Linda Williams - Manager Analytical Services

Validation date: 9/19/23





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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF68748 Location: GW Well WBW-1 Date: 06/27/2023 Sample Collector: WJK/ML

Loc. Code WBW-1 Time: 10:15

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.938	mg/L	08/07/2023	EUROFINS SAV	EPA 6020B
Arsenic	<3	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Barium	53.4	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Calcium	3260	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Cobalt	2.00	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Iron	<100	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Magnesium	1.28	mg/L	08/07/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Boron	53.1	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/07/2023	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	07/07/2023	KCWELLS	EPA 300.0
Chloride	7.58	mg/L	07/07/2023	KCWELLS	EPA 300.0
Sulfate	14.4	mg/L	07/07/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	42.50	mg/L	07/05/2023	NTCHIN	SM 2540C
Radium 226	0.388	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
Radium 228	3.93	pCi/L	07/19/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.32	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
pH	3.94	SU	06/27/2023	WJK/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date:

9/19/23

Authorized Signature Only- Not Valid Unless Signed

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample #** AF68719    **Location:** GW Well WAP-9    **Date:** 06/29/2023    **Sample Collector:** WJK/ML

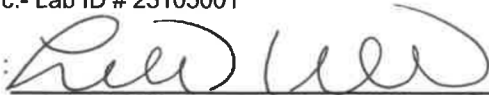
**Loc. Code** WAP-9    **Time:** 10:48

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.547	mg/L	08/08/2023	EUROFINS SAV	EPA 6020B
Arsenic	38.1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	99.1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	232	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	0.660	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	28500	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Magnesium	30.2	mg/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	3250	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Lithium	71.8	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	0.1	mg/L	07/07/2023	KCWELLS	EPA 300.0
Chloride	166	mg/L	07/07/2023	KCWELLS	EPA 300.0
Sulfate	296	mg/L	07/07/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1136	mg/L	07/07/2023	NTCHIN	SM 2540C
Radium 226	1.59	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
Radium 228	3.47	pCi/L	07/17/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.06	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
pH	6.11	SU	06/29/2023	WJK/ML	

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:

9/19/23

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample # AF68733      Location: GW Well WAP-17      Date: 07/10/2023      Sample Collector: WJK/ML**
**Loc. Code WAP-17      Time: 14:10**

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	90.8	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Barium	39.9	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Calcium	253000	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Iron	1260	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Thallium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Boron	4010	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Lithium	129	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Molybdenum	39.5	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/26/2023	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	105	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	651	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1271	mg/L	07/14/2023	TDHARRIS	SM 2540C
Radium 226	1.61	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
Radium 228	1.80	pCi/L	08/10/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.41	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
pH	6.33	SU	07/10/2023	WJK/ML	

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

  
 Linda Williams - Manager Analytical Services

Validation date: 9/18/23

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**

**Sample #** AF68734    **Location:** GW Well WAP-17    **Date:** 07/10/2023    **Sample Collector:** WJK/ML  
**Loc. Code** WAP-17    **DUP**    **Time:** 14:15

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	92.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Barium	40.2	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Calcium	254000	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Iron	1270	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Thallium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Boron	3980	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Lithium	128	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Molybdenum	39.9	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/26/2023	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	105	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	652	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1260	mg/L	07/14/2023	NTCHIN	SM 2540C
Radium 226	1.38	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
Radium 228	1.00	pCi/L	08/10/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.38	pCi/L	08/11/2023	GEL	EPA 903.1 Mod

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:  Validation date: 9/18/23  
 Linda Williams - Manager Analytical Services

## SANTEE COOPER ANALYTICAL SERVICES

## CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

**Sample #** AF68735    **Location:** GW Well WAP-18    **Date:** 07/05/2023    **Sample Collector:** WJK/ML  
**Loc. Code** WAP-18    **Time:** 09:35

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	216	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	139	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	92600	ug/L	08/07/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	0.780	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	1040	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/07/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	1190	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	104	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	143	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	07/07/2023	KCWELLS	EPA 300.0
Chloride	54.4	mg/L	07/07/2023	KCWELLS	EPA 300.0
Sulfate	232	mg/L	07/07/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	478.8	mg/L	07/12/2023	NTCHIN	SM 2540C
Radium 226	0.746	pCi/L	08/01/2023	GEL	EPA 903.1 Mod
Radium 228	3.43	pCi/L	07/18/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.18	pCi/L	08/02/2023	GEL	EPA 903.1 Mod
pH	5.28	SU	07/05/2023	WJK/ML	

## Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

  
 Linda Williams - Manager Analytical Services

Validation date:

9/18/23

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**
**LAB CERTIFICATION #08552**
**Sample # AF68736      Location: GW Well WAP-19      Date: 07/06/2023      Sample Collector: WJK/ML**
**Loc. Code WAP-19      Time: 11:21**

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	173	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	104	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	639000	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	0.640	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	2750	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	4320	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	230	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	20.8	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	0.18	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	33.5	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	1610	mg/L	07/16/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	2818	mg/L	07/13/2023	NTCHIN	SM 2540C
Radium 226	0.812	pCi/L	08/01/2023	GEL	EPA 903.1 Mod
Radium 228	4.13	pCi/L	07/18/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.94	pCi/L	08/02/2023	GEL	EPA 903.1 Mod
pH	6.48	SU	07/06/2023	WJK/ML	

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:

9/18/23

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

**Sample #** AF68756    **Location:** WGS well WLF-A2-1    **Date:** 07/05/2023    **Sample Collector:** WJK/ML  
**Loc. Code** WLF-A2-1    **Time:** 11:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	77.6	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	33.3	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	62200	ug/L	08/07/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	1.09	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	1750	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/07/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	1190	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	24.1	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	23.6	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	07/07/2023	KCWELLS	EPA 300.0
Chloride	17.3	mg/L	07/07/2023	KCWELLS	EPA 300.0
Sulfate	119	mg/L	07/07/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	306.2	mg/L	07/14/2023	NTCHIN	SM 2540C
Radium 226	0.471	pCi/L	08/01/2023	GEL	EPA 903.1 Mod
Radium 228	3.86	pCi/L	07/18/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.33	pCi/L	08/02/2023	GEL	EPA 903.1 Mod
pH	5.52	SU	07/05/2023	WJK/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date: 9/18/23

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF68757    Location: WGS well WLF-A2-2    Date: 07/12/2023    Sample Collector: WJK/ML  
Loc. Code WLF-A2-2    Time: 09:51

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	161	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Barium	80.6	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Calcium	189000	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Iron	4350	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Thallium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Boron	2320	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Lithium	180	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/26/2023	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	08/11/2023	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	07/15/2023	KCWELLS	EPA 300.0
Chloride	94.8	mg/L	07/15/2023	KCWELLS	EPA 300.0
Sulfate	391	mg/L	07/15/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	950.0	mg/L	07/14/2023	NTCHIN	SM 2540C
Radium 226	2.72	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
Radium 228	3.22	pCi/L	08/10/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.93	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
pH	5.68	SU	07/11/2023	WJK/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:

9/18/23



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF68758 Location: WGS well WLF-A2-6 Date: 07/06/2023 Sample Collector: WJK/ML

Loc. Code WLF-A2-6 Time: 09:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	4.57	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	41.4	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	193000	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	466	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	309	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	13.2	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	0.12	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	48.0	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	187	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	685.0	mg/L	07/13/2023	NTCHIN	SM 2540C
Radium 226	0.542	pCi/L	08/01/2023	GEL	EPA 903.1 Mod
Radium 228	0.938	pCi/L	07/18/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.48	pCi/L	08/02/2023	GEL	EPA 903.1 Mod
pH	6.21	SU	07/06/2023	WJK/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:

9/18/23

**SANTEE COOPER ANALYTICAL SERVICES**
**CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF68759    **Location:** WGS well WLF-A2-6    **Date:** 07/06/2023    **Sample Collector:** WJK/ML  
**Loc. Code** WLF-A2-6    **DUP**    **Time:** 09:52

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	4.53	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	41.7	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	190000	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	433	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	293	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	12.4	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	0.13	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	48.4	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	186	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	693.8	mg/L	07/13/2023	NTCHIN	SM 2540C
Radium 226	0.462	pCi/L	08/01/2023	GEL	EPA 903.1 Mod
Radium 228	4.73	pCi/L	07/18/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.19	pCi/L	08/02/2023	GEL	EPA 903.1 Mod

**Comments:**

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis &amp; Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers &amp; Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date: 9/18/23



February 24, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 611426

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 17, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 611426 GEL Work Order: 611426

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56397 Project: SOOP00119  
Sample ID: 611426001 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 10:53  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.639	0.330	1.00	mg/L		1	TSM	02/21/23	1803	2386521	1
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1059	2387499	2
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1110	2386621	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		91.2	1.45	4.00	mg/L			MS3	02/23/23	1738	2388218	4
Bicarbonate alkalinity (CaCO3)		91.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 353.2 Low Level	
3	SM 4500-S (2-) D	
4	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56397 Project: SOOP00119  
Sample ID: 611426002 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 10:53  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average	J	0.794	0.330	1.00	mg/L		1	TSM	02/24/23	1421	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518
EPA 160	Laboratory Filtration - DOC	TSM	02/23/23	0848	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56400 Project: SOOP00119  
Sample ID: 611426003 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 12:55  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		6.12	0.330	1.00	mg/L		1	TSM	02/21/23	1824	2386521	1
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		10.2	0.0700	0.200	mg/L		10	KLP1	02/22/23	1043	2387499	2
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1111	2386621	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		74.2	1.45	4.00	mg/L			MS3	02/23/23	1747	2388218	4
Bicarbonate alkalinity (CaCO3)		74.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 353.2 Low Level	
3	SM 4500-S (2-) D	
4	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56400 Project: SOOP00119  
Sample ID: 611426004 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 12:55  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		6.21	0.330	1.00	mg/L		1	TSM	02/22/23	1659	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56442 Project: SOOP00119  
Sample ID: 611426005 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 14:07  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		15.9	0.330	1.00	mg/L		1	TSM	02/21/23	1906	2386521	1
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1100	2387499	2
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1111	2386621	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		268	1.45	4.00	mg/L			MS3	02/23/23	1749	2388218	4
Bicarbonate alkalinity (CaCO3)		268	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 353.2 Low Level	
3	SM 4500-S (2-) D	
4	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56442 Project: SOOP00119  
Sample ID: 611426006 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 14:07  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		15.9	0.330	1.00	mg/L		1	TSM	02/22/23	1720	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56443 Project: SOOP00119  
Sample ID: 611426007 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 14:12  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		15.7	0.330	1.00	mg/L		1	TSM	02/21/23	2006	2386521	1
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1101	2387499	2
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1112	2386621	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		271	1.45	4.00	mg/L			MS3	02/23/23	1750	2388218	4
Bicarbonate alkalinity (CaCO3)		271	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 353.2 Low Level	
3	SM 4500-S (2-) D	
4	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56443 Project: SOOP00119  
Sample ID: 611426008 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 14:12  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		15.6	0.330	1.00	mg/L		1	TSM	02/22/23	1800	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56395	Project: SOOP00119
Sample ID: 611426009	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 15-FEB-23 11:36	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Carbon Analysis</b>												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		3.49	0.330	1.00	mg/L		1	TSM	02/21/23	2026	2386521	1
<b>Nutrient Analysis</b>												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1102	2387499	2
<b>Spectrometric Analysis</b>												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1112	2386621	3
<b>Titration and Ion Analysis</b>												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.8	1.45	4.00	mg/L			MS3	02/23/23	1752	2388218	4
Bicarbonate alkalinity (CaCO3)		77.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 353.2 Low Level	
3	SM 4500-S (2-) D	
4	SM 2320B	

**Notes:**

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Company : Santee Cooper  
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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56395 Project: SOOP00119  
Sample ID: 611426010 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 15-FEB-23 11:36  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		3.45	0.330	1.00	mg/L		1	TSM	02/22/23	1821	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Report Date: February 24, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56396	Project: SOOP00119
Sample ID: 611426011	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 15-FEB-23 13:21	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Carbon Analysis</b>												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		6.69	0.330	1.00	mg/L		1	TSM	02/21/23	2046	2386521	1
<b>Nutrient Analysis</b>												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1106	2387499	2
<b>Spectrometric Analysis</b>												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1113	2386621	3
<b>Titration and Ion Analysis</b>												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		309	1.45	4.00	mg/L			MS3	02/23/23	1754	2388218	4
Bicarbonate alkalinity (CaCO3)		309	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 353.2 Low Level	
3	SM 4500-S (2-) D	
4	SM 2320B	

**Notes:**

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56396 Project: SOOP00119  
Sample ID: 611426012 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 15-FEB-23 13:21  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		5.85	0.330	1.00	mg/L		1	TSM	02/22/23	1841	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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## Certificate of Analysis

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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56394 Project: SOOP00119  
Sample ID: 611426013 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 12:33  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.30	0.330	1.00	mg/L		1	TSM	02/21/23	2106	2386521	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1114	2386621	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	2.40	1.45	4.00	mg/L			MS3	02/23/23	1756	2388218	3
Bicarbonate alkalinity (CaCO3)	J	2.40	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56394 Project: SOOP00119  
Sample ID: 611426014 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 12:33  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		1.31	0.330	1.00	mg/L		1	TSM	02/22/23	1901	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56431 Project: SOOP00119  
Sample ID: 611426015 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 13:51  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.928	0.330	1.00	mg/L		1	TSM	02/21/23	2125	2386521	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1114	2386621	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			MS3	02/23/23	1757	2388218	3
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56431 Project: SOOP00119  
Sample ID: 611426016 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 13:51  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		1.01	0.330	1.00	mg/L		1	TSM	02/22/23	1922	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56432 Project: SOOP00119  
Sample ID: 611426017 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 15:22  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		3.16	0.330	1.00	mg/L		1	TSM	02/21/23	2145	2386521	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1115	2386621	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	2.20	1.45	4.00	mg/L			MS3	02/23/23	1758	2388218	3
Bicarbonate alkalinity (CaCO3)	J	2.20	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: February 24, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56432 Project: SOOP00119  
Sample ID: 611426018 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 15:22  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		3.19	0.330	1.00	mg/L		1	TSM	02/22/23	1942	2387199	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## QC Summary

Report Date: February 24, 2023

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**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Contact: Ms. Jeanette Gilmetti**

**Workorder: 611426**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Carbon Analysis</b>											
Batch	2386521										
QC1205325283	611426005	DUP									
Total Organic Carbon Average		15.9		15.8	mg/L	1.1		(0%-20%)	TSM	02/21/23	19:26
QC1205325282	LCS										
Total Organic Carbon Average	10.0			9.56	mg/L		95.6	(80%-120%)		02/21/23	15:46
QC1205325281	MB										
Total Organic Carbon Average			U	ND	mg/L					02/21/23	15:36
QC1205325285	611426005	PS									
Total Organic Carbon Average	10.0	15.9		24.0	mg/L		81.1	(65%-120%)		02/21/23	19:46
Batch	2387199										
QC1205325262	611426002	DUP									
Dissolved Organic Carbon Average	J	0.794	J	0.777	mg/L	2.16	^	(+/-1.00)	TSM	02/24/23	14:41
QC1205325261	FLTB										
Dissolved Organic Carbon Average			J	0.372	mg/L					02/24/23	14:10
Dissolved Organic Carbon Average			U	ND	mg/L					02/22/23	14:17
QC1205326621	LCS										
Dissolved Organic Carbon Average	10.0			9.58	mg/L		95.8	(80%-120%)		02/22/23	14:27
QC1205326620	MB										
Dissolved Organic Carbon Average			U	ND	mg/L					02/22/23	14:07
QC1205325263	611426002	PS									
Dissolved Organic Carbon Average	10.0	J	0.794	11.0	mg/L		102	(65%-120%)		02/24/23	15:01

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## QC Summary

Workorder: 611426

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Nutrient Analysis</b>											
Batch 2387499											
QC1205327254 611426009 DUP											
Nitrogen, Nitrate/Nitrite	U	ND	U	ND	mg/L	N/A			KLP1	02/22/23	11:03
QC1205327253 LCS											
Nitrogen, Nitrate/Nitrite	1.00			0.943	mg/L		94.3	(90%-110%)		02/22/23	10:41
QC1205327252 MB											
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					02/22/23	10:40
QC1205327255 611426009 PS											
Nitrogen, Nitrate/Nitrite	1.00 U	ND		1.23	mg/L		123 *	(90%-110%)		02/22/23	11:05
<b>Spectrometric Analysis</b>											
Batch 2386621											
QC1205325529 LCS											
Total Sulfide	0.400			0.410	mg/L		103	(85%-115%)	HH2	02/20/23	11:08
QC1205325528 MB											
Total Sulfide			U	ND	mg/L					02/20/23	11:08
QC1205325530 611426001 PS											
Total Sulfide	0.400 U	ND		0.374	mg/L		93.5	(75%-125%)		02/20/23	11:10
QC1205325531 611426001 PSD											
Total Sulfide	0.400 U	ND		0.386	mg/L	3.06	96.4	(0%-15%)		02/20/23	11:11
<b>Titration and Ion Analysis</b>											
Batch 2388218											
QC1205328367 611426001 DUP											
Alkalinity, Total as CaCO3		91.2		92.2	mg/L	1.09		(0%-20%)	MS3	02/23/23	17:40
Bicarbonate alkalinity (CaCO3)		91.2		92.2	mg/L	1.09		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					



# GEL LABORATORIES LLC

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## QC Summary

Workorder: 611426

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Titration and Ion Analysis</b>											
Batch	2388218										
QC1205328366 LCS											
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)	MS3	02/23/23	17:36
QC1205328368 611426001 MS											
Alkalinity, Total as CaCO3	100	91.2		198	mg/L		107	(80%-120%)		02/23/23	17:44

**Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- NI See case narrative
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 611426

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
----------	-----	--------	------	----	-------	------	------	-------	-------	------	------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 611426**

**Product:** Carbon, Total Organic  
**Analytical Method:** SM 5310 B  
**Analytical Procedure:** GL-GC-E-093 REV# 21  
**Analytical Batch:** 2386521

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
611426013	AF56394
611426015	AF56431
611426017	AF56432
1205325281	Method Blank (MB)
1205325282	Laboratory Control Sample (LCS)
1205325283	611426005(AF56442) Sample Duplicate (DUP)
1205325285	611426005(AF56442) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product:** Carbon, Dissolved Organic  
**Analytical Method:** SM 5310 B  
**Analytical Procedure:** GL-GC-E-093 REV# 21  
**Analytical Batch:** 2387199

**Filtration Method:** EPA 160  
**Filtration Procedure:** GL-LB-E-034 REV# 4  
**Filtration Batch:** 2386518

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611426002	AF56397
611426004	AF56400
611426006	AF56442
611426008	AF56443

611426010	AF56395
611426012	AF56396
611426014	AF56394
611426016	AF56431
611426018	AF56432
1205325261	Filtration Blank (FLTB)
1205325262	611426002(AF56397) Sample Duplicate (DUP)
1205325263	611426002(AF56397) Post Spike (PS)
1205326620	Method Blank (MB)
1205326621	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Sample Re-analysis**

Samples 1205325262 (AF56397DUP) and 611426002 (AF56397) were reanalyzed due to PS failure. The reanalysis data was reported.

**Product: Nitrate/Nitrite Cad Redux Low Level**

**Analytical Method:** EPA 353.2 Low Level

**Analytical Procedure:** GL-GC-E-128 REV# 11

**Analytical Batch:** 2387499

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
1205327252	Method Blank (MB)
1205327253	Laboratory Control Sample (LCS)
1205327254	611426009(AF56395) Sample Duplicate (DUP)
1205327255	611426009(AF56395) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrogen, Nitrate/Nitrite	1205327255 (AF56395PS)	123* (90%-110%)

**Technical Information**

**Sample Dilutions**

The following sample 611426003 (AF56400) was diluted because target analyte concentrations exceeded the calibration range. The following samples 1205327254 (AF56395DUP), 1205327255 (AF56395PS), 611426001 (AF56397), 611426005 (AF56442), 611426007 (AF56443), 611426009 (AF56395) and 611426011 (AF56396) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	611426					
	001	003	005	007	009	011
Nitrogen, Nitrate/Nitrite	10X	10X	10X	10X	10X	10X

**Product: Sulfide, Total**

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2386621

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
611426013	AF56394
611426015	AF56431
611426017	AF56432
1205325528	Method Blank (MB)
1205325529	Laboratory Control Sample (LCS)
1205325530	611426001(AF56397) Post Spike (PS)
1205325531	611426001(AF56397) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product:** Alkalinity

**Analytical Method:** SM 2320B

**Analytical Procedure:** GL-GC-E-033 REV# 14

**Analytical Batch:** 2388218

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
611426013	AF56394
611426015	AF56431
611426017	AF56432
1205328366	Laboratory Control Sample (LCS)
1205328367	611426001(AF56397) Sample Duplicate (DUP)
1205328368	611426001(AF56397) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD 3/17/23

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 27 / 23 Send report to lcwillia@santecooper.com & sibrown@santecooper.com



# Chain of Custody

611426 / 611428

Customer Email/Report Recipient: \_\_\_\_\_ Date Results Needed by: \_\_\_\_\_ Project/Task/Unit #: \_\_\_\_\_ Rerun request for any flagged QC

LCWILLIA @santecooper.com \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ 125915 / JM02.09.G01.1 / 36500 Yes  No

### Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOC/DOC	TOTAL ALK BICARB, CARB	SULFIDE	RAD 224/228	N03/N02
AF56397	WAP-4	2/16/23	1053	ZDM MDG	7	P+ G	G	GW	*	* SULFIDE HAS SHORT HOLD.	2	1	1	2	1
400	WAP-7		1255												
442	WLF-A2-6		1407							* PRESERVATIVES					
443	WLF-A2-6 DUP		1412							TOC H2SO4 SULFIDE ZINC ACETATE, NaOH					
AF56395	WAP-2	2/15/23	1136	ZDM ML						RAD HNO3 < 4°C					
96	WAP 3		1321												
AF56394	WAP-1	2/14/23	1233		6					ALKAL-TOTAL, BICARB, CARB	2	1	1	2	
431	WBW-1		1351							RAD - INCLUDE TOTAL CALCULATION					
432	WBW-A1-1		1522												

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35594	2/17/23	0950	<i>[Signature]</i>	GEL	2/17/23	0950
<i>[Signature]</i>	<i>GEL</i>	2-17-23	1445	<i>[Signature]</i>	<i>GEL</i>	02-17-23	1545

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	--	---	---	--	--

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>COOP</u>		SDG/AR/COC/Work Order: <u>611426 / 611428</u>	
Received By: <u>MVH</u>		Date Received: <u>02-17-2023</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express    FedEx Ground    UPS    Field Services <u>Courier</u> Other	
		<u>Cooler 2 - 6°C</u> <u>Cooler 1 - 18°C</u>	
Suspected Hazard Information		Yes	No
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1    Rad 2    Rad 3
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's    Flammable    Foreign Soil    RCRA    Asbestos    Beryllium    Other:
Sample Receipt Criteria		Yes	No
Comments/Qualifiers (Required for Non-Conforming Items)			
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable:    Seals broken    Damaged container    Leaking container    Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable:    Client contacted and provided COC    COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs    Dry ice    None    Other: *all temperatures are recorded in Celsius    TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>R2-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable:    Seals broken    Damaged container    Leaking container    Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Preservation added, Lot#:
			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
			Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
		<input checked="" type="checkbox"/>	Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable:    No dates on containers    No times on containers    COC missing info    Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable:    No container count on COC    Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<del>Did not receive AT 66131, AT 56394, AT 66132.</del>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable:    Not relinquished    Other (describe)
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials MVH Date 2/20/23 Page 1 of 1



**List of current GEL Certifications as of 24 February 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 16, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 611428

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 17, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 611428 GEL Work Order: 611428

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

*Heather Millar*

---

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56397 Project: SOOP00119  
Sample ID: 611428001 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 10:53  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.13	+/-1.35	2.28	3.00	pCi/L		JE1	03/14/23	1216	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.80	+/-1.38			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.677	+/-0.308	0.295	1.00	pCi/L		LXP1	03/16/23	1008	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			78.7	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56400	Project: SOOP00119
Sample ID: 611428002	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 16-FEB-23 12:55	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.71	+/-1.23	1.92	3.00	pCi/L		JE1	03/14/23	1216	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.55	+/-1.28			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.835	+/-0.332	0.350	1.00	pCi/L		LXP1	03/16/23	0935	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56442	Project: SOOP00119
Sample ID: 611428003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 16-FEB-23 14:07	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.77	+/-1.23	1.95	3.00	pCi/L		JE1	03/14/23	1216	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.98	+/-1.24			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.206	+/-0.173	0.225	1.00	pCi/L		LXP1	03/16/23	0935	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			88.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56443 Project: SOOP00119  
Sample ID: 611428004 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 16-FEB-23 14:12  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.313	+/-0.845	1.53	3.00	pCi/L		JE1	03/14/23	1216	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.644	+/-0.892			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.331	+/-0.286	0.446	1.00	pCi/L		LXP1	03/16/23	1008	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			87	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56395 Project: SOOP00119  
Sample ID: 611428005 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 15-FEB-23 11:36  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.62	+/-1.33	1.88	3.00	pCi/L		JE1	03/14/23	1216	2390110	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.15	+/-1.37			pCi/L		NXL1	03/16/23	1404	2394229	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.531	+/-0.317	0.425	1.00	pCi/L		LXP1	03/16/23	1008	2390103	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.4	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56396	Project: SOOP00119
Sample ID: 611428006	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 15-FEB-23 13:21	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.33	+/-0.985	1.53	3.00	pCi/L		JE1	03/14/23	1216	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.51	+/-1.06			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.18	+/-0.396	0.298	1.00	pCi/L		LXP1	03/16/23	1008	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			78	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56394	Project: SOOP00119
Sample ID: 611428007	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 14-FEB-23 12:33	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.40	+/-1.44	2.39	3.00	pCi/L		JE1	03/14/23	1216	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.48	+/-1.44			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.0794	+/-0.137	0.254	1.00	pCi/L		LXP1	03/16/23	1008	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56431	Project: SOOP00119
Sample ID: 611428008	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 14-FEB-23 13:51	
Receive Date: 17-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.18	+/-0.939	1.47	3.00	pCi/L		JE1	03/14/23	1217	2390110		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.84	+/-0.982			pCi/L		NXL1	03/16/23	1404	2394229		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.668	+/-0.289	0.267	1.00	pCi/L		LXP1	03/16/23	1008	2390103		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			74.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 16, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56432 Project: SOOP00119  
Sample ID: 611428009 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 14-FEB-23 15:22  
Receive Date: 17-FEB-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.80	+/-1.13	1.70	3.00	pCi/L		JE1	03/14/23	1217	2390110	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.51	+/-1.24			pCi/L		NXL1	03/16/23	1404	2394229	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.71	+/-0.498	0.477	1.00	pCi/L		LXP1	03/16/23	1008	2390103	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: March 16, 2023

Page 1 of 2

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 611428

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2390110										
QC1205331121	611428001	DUP									
Radium-228	U	1.13	U	0.494	pCi/L	N/A		N/A	JE1	03/14/23	12:15
	Uncertainty	+/-1.35		+/-0.911							
QC1205331122	LCS										
Radium-228	62.8			64.6	pCi/L		103	(75%-125%)		03/14/23	12:15
	Uncertainty			+/-4.30							
QC1205331120	MB										
Radium-228			U	1.16	pCi/L					03/14/23	12:15
	Uncertainty			+/-1.36							
<b>Rad Ra-226</b>											
Batch	2390103										
QC1205331090	611428001	DUP									
Radium-226		0.677		0.445	pCi/L	41.4		(0% - 100%)	LXP1	03/16/23	10:40
	Uncertainty	+/-0.308		+/-0.291							
QC1205331092	LCS										
Radium-226	26.5			23.0	pCi/L		86.6	(75%-125%)		03/16/23	10:40
	Uncertainty			+/-1.52							
QC1205331089	MB										
Radium-226			U	0.264	pCi/L					03/16/23	10:08
	Uncertainty			+/-0.216							
QC1205331091	611428001	MS									
Radium-226	260	0.677		213	pCi/L		81.6	(75%-125%)		03/16/23	10:40
	Uncertainty	+/-0.308		+/-9.99							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 611428

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 611428**

**Product: GFPC, Ra228, Liquid**

**Analytical Method: EPA 904.0/SW846 9320 Modified**

**Analytical Procedure: GL-RAD-A-063 REV# 5**

**Analytical Batch: 2390110**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611428001	AF56397
611428002	AF56400
611428003	AF56442
611428004	AF56443
611428005	AF56395
611428006	AF56396
611428007	AF56394
611428008	AF56431
611428009	AF56432
1205331120	Method Blank (MB)
1205331121	611428001(AF56397) Sample Duplicate (DUP)
1205331122	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product: Lucas Cell, Ra226, Liquid**

**Analytical Method: EPA 903.1 Modified**

**Analytical Procedure: GL-RAD-A-008 REV# 15**

**Analytical Batch: 2390103**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
611428001	AF56397
611428002	AF56400
611428003	AF56442
611428004	AF56443
611428005	AF56395
611428006	AF56396
611428007	AF56394

611428008	AF56431
611428009	AF56432
1205331089	Method Blank (MB)
1205331090	611428001(AF56397) Sample Duplicate (DUP)
1205331091	611428001(AF56397) Matrix Spike (MS)
1205331092	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Miscellaneous Information**

**Additional Comments**

The matrix spike, 1205331091 (AF56397MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



RAD 3/17/23

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 27 / 23 Send report to lcwillia@santecooper.com & sjbrown@santecooper.com



# Chain of Custody

611426 / 611428  
Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santecooper.com

125715 / JM02.09. G01.1 / 36500

Yes  No

### Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOC/DOC	TOTAL ALK BICARB, CARB	SULFIDE	RAD 226/228	N03/N02
AF56397	WAP-4	2/16/23	1053	ZDM MDG	7	P+ G	G	GW	*	* SULFIDE HAS SHORT HOLD.	2	1	1	2	1
400	WAP-7		1255												
442	WLF-A2-6		1407							* PRESERVATIVES					
443	WLF-A2-6 DUP		1412							TOC H2SO4 SULFIDE ZINC ACETATE, NaOH					
AF 56395	WAP-2	2/15/23	1136	ZDM ML						RAD HNO3 < 4°C					
96	WAP 3		1321												
AF56394	WAP-1	2/14/23	1233		6					ALKAL-TOTAL, BICARB, CARB	2	1	1	2	
431	WBW-1		1351							RAD - INCLUDE TOTAL CALCULATION					
432	WBW-A1-1		1522												

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJB</i>	35594	2/17/23	0950	<i>GEL</i>	GEL	2/17/23	0950
<i>GEL</i>	611428	2-17-23	1415	<i>MAT</i>	GEL	02-17-23	1545

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Napthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	---	--	--

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>COOP</u>		SDG/AR/COC/Work Order: <u>611426 / 611428</u>	
Received By: <u>MVH</u>		Date Received: <u>02-11-2023</u>	
Carrier and Tracking Number		Circle Applicable: <input type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Other	
		<u>Cooler 2 - 6°C</u> <u>Cooler 1 - 18°C</u>	
Suspected Hazard Information		Yes	No
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. <input type="checkbox"/> PCB's <input type="checkbox"/> Flammable <input type="checkbox"/> Foreign Soil <input type="checkbox"/> RCRA <input type="checkbox"/> Asbestos <input type="checkbox"/> Beryllium <input type="checkbox"/> Other:
Sample Receipt Criteria		Yes	No
Comments/Qualifiers (Required for Non-Conforming Items)			
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: <input type="checkbox"/> Seals broken <input type="checkbox"/> Damaged container <input type="checkbox"/> Leaking container <input type="checkbox"/> Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: <input type="checkbox"/> Client contacted and provided COC <input type="checkbox"/> COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry ice <input type="checkbox"/> None <input type="checkbox"/> Other: *all temperatures are recorded in Celsius    TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: <input type="checkbox"/> Seals broken <input type="checkbox"/> Damaged container <input type="checkbox"/> Leaking container <input type="checkbox"/> Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
			Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
		<input checked="" type="checkbox"/>	Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: <input type="checkbox"/> No dates on containers <input type="checkbox"/> No times on containers <input type="checkbox"/> COC missing info <input type="checkbox"/> Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: <input type="checkbox"/> No container count on COC <input type="checkbox"/> Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<del>Did not receive AT 66131, AT 56394, AT 66132.</del>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: <input type="checkbox"/> Not relinquished <input type="checkbox"/> Other (describe)
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials MVH Date 2/20/23 Page 1 of 1

**List of current GEL Certifications as of 16 March 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 14, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 612999

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 612999 GEL Work Order: 612999

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

*Heather Millar*

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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56433 Project: SOOP00119  
Sample ID: 612999001 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 12:58  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		13.0	0.330	1.00	mg/L		1	TSM	03/11/23	0321	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1510	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		322	2.42	6.67	mg/L			MS3	03/09/23	1341	2393625	3
Bicarbonate alkalinity (CaCO3)		322	2.42	6.67	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.42	6.67	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56433 Project: SOOP00119  
Sample ID: 612999002 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 12:58  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		12.4	0.330	1.00	mg/L		1	TSM	03/10/23	1641	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56435 Project: SOOP00119  
Sample ID: 612999003 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 11:44  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.14	0.330	1.00	mg/L		1	TSM	03/11/23	0341	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1510	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			MS3	03/09/23	1351	2393625	3
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56435 Project: SOOP00119  
Sample ID: 612999004 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 11:44  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		1.92	0.330	1.00	mg/L		1	TSM	03/10/23	1740	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56436	Project: SOOP00119
Sample ID: 612999005	Client ID: SOOP001
Matrix: GW	
Collect Date: 28-FEB-23 10:19	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Carbon Analysis</b>												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		9.67	0.330	1.00	mg/L		1	TSM	03/11/23	0423	2394332	1
<b>Spectrometric Analysis</b>												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1511	2394295	2
<b>Titration and Ion Analysis</b>												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		118	1.45	4.00	mg/L			MS3	03/09/23	1355	2393625	3
Bicarbonate alkalinity (CaCO3)		118	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

**Notes:**

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56436 Project: SOOP00119  
Sample ID: 612999006 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 10:19  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.1	0.330	1.00	mg/L		1	TSM	03/10/23	1800	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56437 Project: SOOP00119  
Sample ID: 612999007 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 10:24  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.2	0.330	1.00	mg/L		1	TSM	03/11/23	0443	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1511	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		126	1.45	4.00	mg/L			MS3	03/09/23	1358	2393625	3
Bicarbonate alkalinity (CaCO3)		126	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56437 Project: SOOP00119  
Sample ID: 612999008 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 10:24  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.5	0.330	1.00	mg/L		1	TSM	03/10/23	1820	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56438 Project: SOOP00119  
Sample ID: 612999009 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 14:31  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		7.51	0.330	1.00	mg/L		1	TSM	03/11/23	0503	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1512	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		209	1.45	4.00	mg/L			MS3	03/09/23	1401	2393625	3
Bicarbonate alkalinity (CaCO3)		209	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56438 Project: SOOP00119  
Sample ID: 612999010 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 14:31  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		7.98	0.330	1.00	mg/L		1	TSM	03/10/23	1840	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56402 Project: SOOP00119  
Sample ID: 612999011 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 12:47  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		15.3	0.330	1.00	mg/L		1	TSM	03/11/23	0523	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/06/23	1808	2394245	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		208	1.45	4.00	mg/L			MS3	03/09/23	1404	2393625	3
Bicarbonate alkalinity (CaCO3)		208	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56402 Project: SOOP00119  
Sample ID: 612999012 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 12:47  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		15.8	0.330	1.00	mg/L		1	TSM	03/10/23	1923	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56403      Project: SOOP00119  
Sample ID: 612999013      Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 09:57  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.81	0.330	1.00	mg/L		1	TSM	03/11/23	0543	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/06/23	1808	2394245	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		227	1.45	4.00	mg/L			MS3	03/09/23	1407	2393625	3
Bicarbonate alkalinity (CaCO3)		227	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56403 Project: SOOP00119  
Sample ID: 612999014 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 09:57  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		2.08	0.330	1.00	mg/L		1	TSM	03/10/23	1942	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56404      Project: SOOP00119  
Sample ID: 612999015      Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 10:02  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.79	0.330	1.00	mg/L		1	TSM	03/11/23	0605	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/06/23	1808	2394245	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		232	1.45	4.00	mg/L			MS3	03/09/23	1410	2393625	3
Bicarbonate alkalinity (CaCO3)		232	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56404 Project: SOOP00119  
Sample ID: 612999016 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 10:02  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		2.36	0.330	1.00	mg/L		1	TSM	03/10/23	2004	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56434 Project: SOOP00119  
Sample ID: 612999017 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 15:44  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.41	0.330	1.00	mg/L		1	TSM	03/11/23	0627	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/06/23	1808	2394245	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		8.00	1.45	4.00	mg/L			MS3	03/09/23	1416	2393625	3
Bicarbonate alkalinity (CaCO3)		8.00	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56434 Project: SOOP00119  
Sample ID: 612999018 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 15:44  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		2.30	0.330	1.00	mg/L		1	TSM	03/10/23	2026	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56414 Project: SOOP00119  
Sample ID: 612999019 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 12:46  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.07	0.330	1.00	mg/L		1	TSM	03/11/23	0646	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1513	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		75.0	1.45	4.00	mg/L			MS3	03/09/23	1418	2393625	3
Bicarbonate alkalinity (CaCO3)		75.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56414 Project: SOOP00119  
Sample ID: 612999020 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 12:46  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		1.48	0.330	1.00	mg/L		1	RM3	03/14/23	1542	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/13/23	0830	2394325
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56423      Project: SOOP00119  
Sample ID: 612999021      Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 09:52  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		3.29	0.330	1.00	mg/L		1	TSM	03/11/23	0814	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1513	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		280	2.42	6.67	mg/L			MS3	03/09/23	1424	2393625	3
Bicarbonate alkalinity (CaCO3)		280	2.42	6.67	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.42	6.67	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56423	Project: SOOP00119
Sample ID: 612999022	Client ID: SOOP001
Matrix: GW	
Collect Date: 02-MAR-23 09:52	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		3.83	0.330	1.00	mg/L		1	TSM	03/10/23	2153	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

**Notes:**

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56428 Project: SOOP00119  
Sample ID: 612999023 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 10:56  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		11.1	0.330	1.00	mg/L		1	TSM	03/11/23	0835	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1514	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		190	1.45	4.00	mg/L			MS3	03/09/23	1428	2393625	3
Bicarbonate alkalinity (CaCO3)		190	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56428 Project: SOOP00119  
Sample ID: 612999024 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 10:56  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		11.4	0.330	1.00	mg/L		1	TSM	03/10/23	2214	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56421	Project: SOOP00119
Sample ID: 612999025	Client ID: SOOP001
Matrix: GW	
Collect Date: 01-MAR-23 14:41	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Carbon Analysis</b>												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.8	0.330	1.00	mg/L		1	TSM	03/11/23	0855	2394332	1
<b>Spectrometric Analysis</b>												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1514	2394295	2
<b>Titration and Ion Analysis</b>												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		251	1.45	4.00	mg/L			MS3	03/09/23	1430	2393625	3
Bicarbonate alkalinity (CaCO3)		251	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

**Notes:**

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56421 Project: SOOP00119  
Sample ID: 612999026 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 14:41  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		11.7	0.330	1.00	mg/L		1	TSM	03/10/23	2235	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56424 Project: SOOP00119  
Sample ID: 612999027 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 13:37  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.24	0.330	1.00	mg/L		1	TSM	03/11/23	0914	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1514	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		277	1.45	4.00	mg/L			MS3	03/09/23	1432	2393625	3
Bicarbonate alkalinity (CaCO3)		277	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

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Client Sample ID: AF56424	Project: SOOP00119
Sample ID: 612999028	Client ID: SOOP001
Matrix: GW	
Collect Date: 02-MAR-23 13:37	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		2.90	0.330	1.00	mg/L		1	TSM	03/10/23	2317	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

**Notes:**

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56439      Project: SOOP00119  
Sample ID: 612999029      Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 10:22  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		5.31	0.330	1.00	mg/L		1	TSM	03/11/23	0934	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1516	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		12.2	1.45	4.00	mg/L			MS3	03/09/23	1434	2393625	3
Bicarbonate alkalinity (CaCO3)		12.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56439 Project: SOOP00119  
Sample ID: 612999030 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 10:22  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		5.75	0.330	1.00	mg/L		1	TSM	03/10/23	2338	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56441 Project: SOOP00119  
Sample ID: 612999031 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 11:45  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		9.35	0.330	1.00	mg/L		1	TSM	03/11/23	0954	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1516	2394295	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		62.8	1.45	4.00	mg/L			MS3	03/09/23	1438	2393625	3
Bicarbonate alkalinity (CaCO3)		62.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 14, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56441 Project: SOOP00119  
Sample ID: 612999032 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 11:45  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.2	0.330	1.00	mg/L		1	TSM	03/10/23	2358	2394833	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## QC Summary

Report Date: March 14, 2023

Page 1 of 4

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 612999

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Carbon Analysis</b>											
Batch	2394332										
QC1205338198	612999019	DUP									
Total Organic Carbon Average		2.07		2.05	mg/L	0.924 ^		(+/-1.00)	TSM	03/11/23	07:08
QC1205338197	LCS										
Total Organic Carbon Average	10.0			9.71	mg/L		97.1	(80%-120%)		03/11/23	00:50
QC1205338196	MB										
Total Organic Carbon Average			U	ND	mg/L					03/11/23	00:40
QC1205338200	612999019	PS									
Total Organic Carbon Average	10.0	2.07		11.1	mg/L		90.1	(65%-120%)		03/11/23	07:30
Batch	2394833										
QC1205338176	612999002	DUP									
Dissolved Organic Carbon Average		12.4		12.0	mg/L	2.86		(0%-20%)	TSM	03/10/23	17:01
QC1205338177	612999020	DUP									
Dissolved Organic Carbon Average		1.48		1.43	mg/L	3.37 ^		(+/-1.00)	RM3	03/14/23	16:04
QC1205338175	FLT B										
Dissolved Organic Carbon Average			U	ND	mg/L					03/14/23	15:21
QC1205339108	LCS										
Dissolved Organic Carbon Average	10.0			10.1	mg/L		101	(80%-120%)	TSM	03/10/23	16:28
QC1205339107	MB										
Dissolved Organic Carbon Average			U	ND	mg/L					03/10/23	16:09
QC1205338178	612999002	PS									
Dissolved Organic Carbon Average	10.0	12.4		21.2	mg/L		88.2	(65%-120%)		03/10/23	17:20

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## QC Summary

Workorder: 612999

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Carbon Analysis</b>											
Batch	2394833										
QC1205338179	612999020	PS									
Dissolved Organic Carbon Average	10.0		1.48	11.1	mg/L		95.9	(65%-120%)	RM3	03/14/23	16:26
<b>Spectrometric Analysis</b>											
Batch	2394245										
QC1205338011	LCS										
Total Sulfide	0.400			0.404	mg/L		101	(85%-115%)	HH2	03/06/23	18:08
QC1205338010	MB										
Total Sulfide			U	ND	mg/L					03/06/23	18:07
QC1205338012	612999011	PS									
Total Sulfide	0.400	U	ND	0.241	mg/L		59.3*	(75%-125%)		03/06/23	18:08
QC1205338013	612999011	PSD									
Total Sulfide	0.400	U	ND	0.246	mg/L	1.8	60.4*	(0%-15%)		03/06/23	18:08
Batch	2394295										
QC1205338101	LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	HH2	03/07/23	15:09
QC1205338100	MB										
Total Sulfide			U	ND	mg/L					03/07/23	15:09
QC1205338104	612999027	PS									
Total Sulfide	0.400	U	ND	0.102	mg/L		25.2*	(75%-125%)		03/07/23	15:15
QC1205338105	612999027	PSD									
Total Sulfide	0.400	U	ND	0.104	mg/L	2.38	25.8*	(0%-15%)		03/07/23	15:15
<b>Titration and Ion Analysis</b>											
Batch	2393625										
QC1205336863	612999001	DUP									
Alkalinity, Total as CaCO3			322	327	mg/L	1.44		(0%-20%)	MS3	03/09/23	13:46

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## QC Summary

Workorder: 612999

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Titration and Ion Analysis</b>											
Batch	2393625										
Bicarbonate alkalinity (CaCO3)		322		327	mg/L	1.44		(0%-20%)	MS3	03/09/23	13:46
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205336865 612999021 DUP											
Alkalinity, Total as CaCO3		280		279	mg/L	0.357		(0%-20%)		03/09/23	14:25
Bicarbonate alkalinity (CaCO3)		280		279	mg/L	0.357		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205336862 LCS											
Alkalinity, Total as CaCO3	100			105	mg/L		105	(90%-110%)		03/09/23	13:35
QC1205336864 612999001 MS											
Alkalinity, Total as CaCO3	167	322		495	mg/L		104	(80%-120%)		03/09/23	13:48
QC1205336866 612999021 MS											
Alkalinity, Total as CaCO3	167	280		451	mg/L		103	(80%-120%)		03/09/23	14:26

**Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.



# GEL LABORATORIES LLC

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## QC Summary

Workorder: 612999

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A										
RPD or %Recovery limits do not apply.										
ND										
Analyte concentration is not detected above the detection limit										
NJ										
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
E										
General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
Q										
One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
NI										
See case narrative										
R										
Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.										
B										
The target analyte was detected in the associated blank.										
e										
5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										
J										
See case narrative for an explanation										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 612999**

**Product:** Carbon, Total Organic  
**Analytical Method:** SM 5310 B  
**Analytical Procedure:** GL-GC-E-093 REV# 21  
**Analytical Batch:** 2394332

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
612999001	AF56433
612999003	AF56435
612999005	AF56436
612999007	AF56437
612999009	AF56438
612999011	AF56402
612999013	AF56403
612999015	AF56404
612999017	AF56434
612999019	AF56414
612999021	AF56423
612999023	AF56428
612999025	AF56421
612999027	AF56424
612999029	AF56439
612999031	AF56441
1205338196	Method Blank (MB)
1205338197	Laboratory Control Sample (LCS)
1205338198	612999019(AF56414) Sample Duplicate (DUP)
1205338200	612999019(AF56414) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product:** Carbon, Dissolved Organic  
**Analytical Method:** SM 5310 B  
**Analytical Procedure:** GL-GC-E-093 REV# 21  
**Analytical Batch:** 2394833

**Filtration Method:** EPA 160  
**Filtration Procedure:** GL-LB-E-034 REV# 4  
**Filtration Batch:** 2394325

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
612999002	AF56433
612999004	AF56435
612999006	AF56436
612999008	AF56437
612999010	AF56438
612999012	AF56402
612999014	AF56403
612999016	AF56404
612999018	AF56434
612999020	AF56414
612999022	AF56423
612999024	AF56428
612999026	AF56421
612999028	AF56424
612999030	AF56439
612999032	AF56441
1205338175	Filtration Blank (FLTB)
1205338176	612999002(AF56433) Sample Duplicate (DUP)
1205338177	612999020(AF56414) Sample Duplicate (DUP)
1205338178	612999002(AF56433) Post Spike (PS)
1205338179	612999020(AF56414) Post Spike (PS)
1205339107	Method Blank (MB)
1205339108	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

#### **Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

#### **Technical Information**

##### **Sample Re-analysis**

Samples 1205338177 (AF56414DUP), 1205338179 (AF56414PS) and 612999020 (AF56414) were reanalyzed due to PS failure. The reanalysis data was reported. Sample was re-analyzed to verify the result. The reanalysis data with passing instrument QC was reported. 1205338175 (FLTB).

##### **Product: Sulfide, Total**

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2394245

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
612999011	AF56402
612999013	AF56403
612999015	AF56404
612999017	AF56434
1205338010	Method Blank (MB)

1205338011                    Laboratory Control Sample (LCS)  
 1205338012                    612999011(AF56402) Post Spike (PS)  
 1205338013                    612999011(AF56402) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205338012 (AF56402PS)	59.3* (75%-125%)
	1205338013 (AF56402PSD)	60.4* (75%-125%)

**Product: Sulfide, Total**

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2394295

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
612999001	AF56433
612999003	AF56435
612999005	AF56436
612999007	AF56437
612999009	AF56438
612999019	AF56414
612999021	AF56423
612999023	AF56428
612999025	AF56421
612999027	AF56424
612999029	AF56439
612999031	AF56441
1205338100	Method Blank (MB)
1205338101	Laboratory Control Sample (LCS)
1205338104	612999027(AF56424) Post Spike (PS)
1205338105	612999027(AF56424) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205338104 (AF56424PS)	25.2* (75%-125%)
	1205338105 (AF56424PSD)	25.8* (75%-125%)

**Product: Alkalinity**

**Analytical Method:** SM 2320B

**Analytical Procedure:** GL-GC-E-033 REV# 14

**Analytical Batch:** 2393625

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
612999001	AF56433
612999003	AF56435
612999005	AF56436
612999007	AF56437
612999009	AF56438
612999011	AF56402
612999013	AF56403
612999015	AF56404
612999017	AF56434
612999019	AF56414
612999021	AF56423
612999023	AF56428
612999025	AF56421
612999027	AF56424
612999029	AF56439
612999031	AF56441
1205336862	Laboratory Control Sample (LCS)
1205336863	612999001(AF56433) Sample Duplicate (DUP)
1205336864	612999001(AF56433) Matrix Spike (MS)
1205336865	612999021(AF56423) Sample Duplicate (DUP)
1205336866	612999021(AF56423) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JMO2.09.G01.1 / 36500 Rerun request for any flagged QC Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	ALKALINITY	SULFIDE	TOC/DOC	RAD 226/228
AF56433	WLF-A1-1	2/23/23	1258	EDM ML	6	P/G	G	GW	*	* SULFIDE HAS SHORT HOLD	1	1	2	2
35	WLF-A1-3		1144											
36	WLF-A1-4		1019							* PRESERVATIVES				
37	WLF-A1-4D		1024							TOC- H2SO4 SULFIDE-ZINC ACETATE, NaOH				
38	WLF-A1-5		1431							RAD-HNO3 <4°C				
AF56402	WAP-9	2/21/23	1247	EDM ML										
03	WAP-10		0957							ALK - TOTAL, BICARB, CARB				
04	WAP-10 D		1002											
434	WLF-A1-2		1544							DOC - NOT FIELD FILTERED				

TOTAL RAD CALL

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	2/3/23	0940	ML	GEL	3/3/23	0940
ML	GEL	2/21/23	1450	ML	GEL	3/3/23	0940

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section) Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

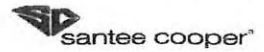
RAD 4/7/23

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 13 / 23

Send report to lcwillia@santecooper.com & sjbrown@santecooper.com

# Chain of Custody



Santee Cooper  
One Riverwood Drive  
Moncks Corner, SC 29461  
Phone: (843)761-8000 Ext. 5148  
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santecooper.com

/ /

125915 / JMO2.09.G01. / 36500

Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	ALKALINITY	SULFIDE	TOC/DOC	RAD 226/228	TOTAL RAD CALC.
AF56414	WAP-15	3/2/23	1246	ZDM ML	6	P/G	G	GW	*	* SULFIDE HAS SHORT HOLD	1	1	2	2	
23	WAP-23		0952												
28	WAP-27		1056							* PRESERVATIVES					
AF56421	WAP-21	3/1/23	1441							TOC- H2SO4 SULFIDE - ZINC ACETATE, NaOH					
24	24		1337							RAD - HNO3 <4°C					
39	WLF-A2-1		1022												
41	WLF-A2-2		1145							ALKAL-TOTAL, BICARB, CARB					
										DC-NOT FIELD FILTERED					

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	3/3/23	0640	<i>DJP</i>	GEL	3/3/23	0740
<i>DJP</i>	666	3/3/23	1540	<i>MHA</i>	Cell	03/03/23	1550

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>○○○○</u>	SDG/AR/COC/Work Order: <u>612999 / 613005</u>
Received By: <u>MVH</u>	Date Received: <u>03.03.2023</u>
Carrier and Tracking Number	Circle Applicable: FedEx Express   FedEx Ground   UPS   Field Services <u>Courier</u> Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>○○</u> CPM/mR/hr Classified as: Rad 1   Rad 2   Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's   Flammable   Foreign Soil   RCRA   Asbestos   Beryllium   Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC   COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs   Dry ice   None   Other: *all temperatures are recorded in Celsius   TEMP: <u>1</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
6 Samples requiring chemical preservation at proper pH? <u>MU H03 CG 23</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: <u>AF56413, AF56428, AF56421, AF56403, AF56402, AF5643</u>
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers   No times on containers   COC missing info   Other (describe) <u>Times for samples AF57692, and AF57693 are missing</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC   Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished   Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JM Date 3-7-23 Page 1 of 1

**List of current GEL Certifications as of 14 March 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



April 03, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 613005

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613005 GEL Work Order: 613005

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56433	Project: SOOP00119
Sample ID: 613005001	Client ID: SOOP001
Matrix: GW	
Collect Date: 28-FEB-23 12:58	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-0.249	+/-0.781	1.56	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.644	+/-0.904			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.644	+/-0.455	0.560	1.00	pCi/L			LXP1	04/03/23	0839 2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: April 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56435	Project: SOOP00119
Sample ID: 613005002	Client ID: SOOP001
Matrix: GW	
Collect Date: 28-FEB-23 11:44	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.77	+/-1.29	2.03	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.09	+/-1.47			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.32	+/-0.707	0.797	1.00	pCi/L			LXP1	04/03/23	0839	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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 Address : P.O. Box 2946101  
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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56436	Project: SOOP00119
Sample ID: 613005003	Client ID: SOOP001
Matrix: GW	
Collect Date: 28-FEB-23 10:19	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.0291	+/-0.690	1.35	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.482	+/-0.837			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.482	+/-0.473	0.699	1.00	pCi/L			LXP1	04/03/23	0839	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			93.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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 Address : P.O. Box 2946101  
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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56437	Project: SOOP00119
Sample ID: 613005004	Client ID: SOOP001
Matrix: GW	
Collect Date: 28-FEB-23 10:24	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-0.766	+/-0.835	1.75	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.569	+/-0.926			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.569	+/-0.399	0.392	1.00	pCi/L			LXP1	04/03/23	0839 2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			91.5	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



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Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56438 Project: SOOP00119  
Sample ID: 613005005 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-FEB-23 14:31  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.60	+/-1.20	1.68	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.92	+/-1.36			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.32	+/-0.639	0.633	1.00	pCi/L			LXP1	04/03/23	0839 2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56402	Project: SOOP00119
Sample ID: 613005006	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-23 12:47	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.51	+/-1.11	1.75	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.78	+/-1.28			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.26	+/-0.631	0.611	1.00	pCi/L			LXP1	04/03/23	0839	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			93.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56403 Project: SOOP00119  
Sample ID: 613005007 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-FEB-23 09:57  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-0.163	+/-1.41	2.61	3.00	pCi/L		JE1	03/29/23	1353	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.55	+/-1.56			pCi/L		1 NXL1	04/03/23	1450	2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.55	+/-0.668	0.494	1.00	pCi/L		LXP1	04/03/23	0839	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56404	Project: SOOP00119
Sample ID: 613005008	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-23 10:02	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.00	+/-1.16	1.94	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.12	+/-1.42			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.11	+/-0.816	0.467	1.00	pCi/L			LXP1	04/03/23	0913	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: April 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56434	Project: SOOP00119
Sample ID: 613005009	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-23 15:44	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.28	+/-1.34	2.01	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.38	+/-1.47			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.11	+/-0.592	0.650	1.00	pCi/L			LXP1	04/03/23	0913 2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Santee Cooper  
 Address : P.O. Box 2946101  
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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56414	Project: SOOP00119
Sample ID: 613005010	Client ID: SOOP001
Matrix: GW	
Collect Date: 02-MAR-23 12:46	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.86	+/-1.32	2.04	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.89	+/-1.53			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.03	+/-0.775	0.608	1.00	pCi/L			LXP1	04/03/23	0913	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Santee Cooper  
 Address : P.O. Box 2946101  
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 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56423	Project: SOOP00119
Sample ID: 613005011	Client ID: SOOP001
Matrix: GW	
Collect Date: 02-MAR-23 09:52	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.86	+/-1.55	2.31	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		5.59	+/-1.83			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.72	+/-0.971	0.718	1.00	pCi/L			LXP1	04/03/23	0913 2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Santee Cooper  
Address : P.O. Box 2946101  
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Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56428 Project: SOOP00119  
Sample ID: 613005012 Client ID: SOOP001  
Matrix: GW  
Collect Date: 02-MAR-23 10:56  
Receive Date: 03-MAR-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.86	+/-1.30	2.02	3.00	pCi/L		JE1	03/29/23	1353	2397799		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.02	+/-1.43			pCi/L		1 NXL1	04/03/23	1450	2397798		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.16	+/-0.597	0.592	1.00	pCi/L		LXP1	04/03/23	0913	2397388		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



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 Address : P.O. Box 2946101  
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 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56421	Project: SOOP00119
Sample ID: 613005013	Client ID: SOOP001
Matrix: GW	
Collect Date: 01-MAR-23 14:41	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.24	+/-0.981	1.55	3.00	pCi/L			JE1	03/29/23	1354	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.94	+/-1.10			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.704	+/-0.496	0.628	1.00	pCi/L			LXP1	04/03/23	0913	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			87.2	(15%-125%)

**Notes:**  
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56424	Project: SOOP00119
Sample ID: 613005014	Client ID: SOOP001
Matrix: GW	
Collect Date: 01-MAR-23 13:37	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.794	+/-1.11	1.91	3.00	pCi/L		JE1	03/29/23	1354	2397799		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.98	+/-1.28			pCi/L		1 NXL1	04/03/23	1450	2397798		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.18	+/-0.630	0.605	1.00	pCi/L		LXP1	04/03/23	0913	2397388		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			66.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56439	Project: SOOP00119
Sample ID: 613005015	Client ID: SOOP001
Matrix: GW	
Collect Date: 01-MAR-23 10:22	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.580	+/-0.976	1.72	3.00	pCi/L			JE1	03/29/23	1354	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.994	+/-1.03			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.414	+/-0.336	0.373	1.00	pCi/L			LXP1	04/03/23	0913	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			69.6	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56441	Project: SOOP00119
Sample ID: 613005016	Client ID: SOOP001
Matrix: GW	
Collect Date: 01-MAR-23 11:45	
Receive Date: 03-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.269	+/-0.783	1.43	3.00	pCi/L		JE1	03/29/23	1354	2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.02	+/-0.912			pCi/L		1 NXL1	04/03/23	1450	2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.747	+/-0.468	0.416	1.00	pCi/L		LXP1	04/03/23	0931	2397388	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			91.4	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: April 3, 2023

Page 1 of 2

**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Contact: Ms. Jeanette Gilmetti**

**Workorder: 613005**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2397799										
QC1205344410	613005001	DUP									
Radium-228	U	-0.249		1.56	pCi/L	276*		(0% - 100%)	JE1	03/29/23	13:53
	Uncertainty	+/-0.781		+/-1.00							
QC1205344411	LCS										
Radium-228	62.2			70.2	pCi/L		113	(75%-125%)		03/29/23	13:53
	Uncertainty			+/-4.54							
QC1205344409	MB										
Radium-228			U	0.121	pCi/L					03/29/23	13:53
	Uncertainty			+/-1.00							
<b>Rad Ra-226</b>											
Batch	2397388										
QC1205343453	613005001	DUP									
Radium-226		0.644		1.16	pCi/L	57.3		(0% - 100%)	LXP1	04/03/23	09:48
	Uncertainty	+/-0.455		+/-0.620							
QC1205343455	LCS										
Radium-226	26.5			30.7	pCi/L		116	(75%-125%)		04/03/23	09:48
	Uncertainty			+/-2.99							
QC1205343452	MB										
Radium-226			U	0.167	pCi/L					04/03/23	09:48
	Uncertainty			+/-0.305							
QC1205343454	613005001	MS									
Radium-226	132	0.644		101	pCi/L		75.5	(75%-125%)		04/03/23	09:48
	Uncertainty	+/-0.455		+/-11.8							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 613005

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 613005**

**Product: Radium-226+Radium-228 Calculation**

**Analytical Method: Calculation**

**Analytical Procedure: GL-RAD-D-003 REV# 45**

**Analytical Batch: 2397798**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613005001	AF56433
613005002	AF56435
613005003	AF56436
613005004	AF56437
613005005	AF56438
613005006	AF56402
613005007	AF56403
613005008	AF56404
613005009	AF56434
613005010	AF56414
613005011	AF56423
613005012	AF56428
613005013	AF56421
613005014	AF56424
613005015	AF56439
613005016	AF56441

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product: GFPC, Ra228, Liquid**

**Analytical Method: EPA 904.0/SW846 9320 Modified**

**Analytical Procedure: GL-RAD-A-063 REV# 5**

**Analytical Batch: 2397799**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613005001	AF56433
613005002	AF56435
613005003	AF56436

613005004	AF56437
613005005	AF56438
613005006	AF56402
613005007	AF56403
613005008	AF56404
613005009	AF56434
613005010	AF56414
613005011	AF56423
613005012	AF56428
613005013	AF56421
613005014	AF56424
613005015	AF56439
613005016	AF56441
1205344409	Method Blank (MB)
1205344410	613005001(AF56433) Sample Duplicate (DUP)
1205344411	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Duplication Criteria between QC Sample and Duplicate Sample**

The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205344410 (AF56433DUP)	Radium-228	RPD 276* (0.0%-100.0%) RER 2.65 (0-3)

**Product:** Lucas Cell, Ra226, Liquid

**Analytical Method:** EPA 903.1 Modified

**Analytical Procedure:** GL-RAD-A-008 REV# 15

**Analytical Batch:** 2397388

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613005001	AF56433
613005002	AF56435
613005003	AF56436
613005004	AF56437
613005005	AF56438
613005006	AF56402
613005007	AF56403



613005008	AF56404
613005009	AF56434
613005010	AF56414
613005011	AF56423
613005012	AF56428
613005013	AF56421
613005014	AF56424
613005015	AF56439
613005016	AF56441
1205343452	Method Blank (MB)
1205343453	613005001(AF56433) Sample Duplicate (DUP)
1205343454	613005001(AF56433) Matrix Spike (MS)
1205343455	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Miscellaneous Information**

**Additional Comments**

The matrix spike, 1205343454 (AF56433MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JMO2.09.G01.1 / 36500 Rerun request for any flagged QC Yes  No

### Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	ALKALINITY	SULFIDE	TOC/POC	RAP 226/228
AF56433	WLF-A1-1	2/23/23	1258	ZDM ML	6	P/G	G	GW	*	* SULFIDE HAS SHORT HOLD	1	1	2	2
35	WLF-A1-3		1144											
36	WLF-A1-4		1019							* PRESERVATIVES				
37	WLF-A1-4D		1024							TOC- H2SO4 SULFIDE-ZINC ACETATE, NaOH				
38	WLF-A1-5		1431							RAD-HNO3 <4°C				
AF56402	WAP-9	2/21/23	1247	ZDM ML										
03	WAP-10		0957							ALK - TOTAL, BICARB, CARB				
04	WAP-10 D		1002											
434	WLF-A1-2		1544							DOC - NOT FIELD FILTERED				

TOTAL RAD CMLL

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Sibrown	35594	3/3/23	0740	ML	GEL	3/3/23	0740
ML	GEL	3/3/23	1450	ML	GEL	3/3/23	1550

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

RAD 4/7/23

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 13 / 23 Send report to lcwillia@santecooper.com & sjbrown@santecooper.com



Santee Cooper  
One Riverwood Drive  
Moncks Corner, SC 29461  
Phone: (843)761-8000 Ext. 5148  
Fax: (843)761-4175

# Chain of Custody

Customer Email/Report Recipient: \_\_\_\_\_ Date Results Needed by: \_\_\_\_\_ Project/Task/Unit #: \_\_\_\_\_ Rerun request for any flagged QC

LCWILLIA @santecooper.com \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ 125915 / JMO2.09.G01 / 36500 Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	ALKALINITY	SULFIDE	TDC/DOC	RAD 226/228	TOTAL RAD CALC.
AF56414	WAP-15	3/2/23	1246	ZDM ML	6	P/G	G	GW	*	* SULFIDE HAS SHORT HOLD	1	1	2	2	
23	WAP-23		0952												
28	WAP-27		1056							* PRESERVATIVES					
AF56421	WAP-21	3/1/23	1441							TOC- H2SO4 SULFIDE - ZINC ACETATE, NaOH					
24	24		1337							RAD - HNO3 <4°C					
39	WLF-A2-1		1022												
41	WLF-A2-2		1145							ALKAL-TOTAL, BICARB, CARB					
										DOC-NOT FIELD FILTERED					

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	3/3/23	0640	<i>DWP</i>	GEL	3/3/23	0740
<i>DWP</i>	666	3/3/23	1540	<i>MHA</i>	Cell	03/03/23	1550

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

SAMPLE RECEIPT & REVIEW FORM

Client: <u>OOO</u>		SDG/AR/COC/Work Order: <u>612999 / 613005</u>		
Received By: <u>MVH</u>		Date Received: <u>03-03-2023</u>		
Carrier and Tracking Number		Circle Applicable: FedEx Express    FedEx Ground    UPS    Field Services <u>Courier</u> Other		
Suspected Hazard Information		Yes	No	
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.				
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/hr Classified as: Rad 1    Rad 2    Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below: PCB's    Flammable    Foreign Soil    RCRA    Asbestos    Beryllium    Other: _____	
Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC    COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs    Dry ice    None    Other: *all temperatures are recorded in Celsius    TEMP: <u>1</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
6 Samples requiring chemical preservation at proper pH? <u>MUHO3-CG-23</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: <u>AF5643, AF56428, AF56421, AF56403, AF56402, AF5643</u>
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers    No times on containers    COC missing info    Other (describe) <u>Times for samples AF57692, and AF57693 are</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC    Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished    Other (describe)
Comments (Use Continuation Form if needed):				

PM (or PMA) review: Initials JM Date 3-7-23 Page 1 of 1

**List of current GEL Certifications as of 03 April 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 20, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 613953

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 10, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613953 GEL Work Order: 613953

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

*Heather Millar*

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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

---

Client Sample ID:	AF56414	Project:	SOOP00119
Sample ID:	613953001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	02-MAR-23 12:46		
Receive Date:	10-MAR-23		
Collector:	Client		

---

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	0951	2395701	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56423 Project: SOOP00119  
Sample ID: 613953002 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 02-MAR-23 09:52  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	0957	2395701	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

*Certificate of Analysis*

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

---

Client Sample ID: AF56428 Project: SOOP00119  
Sample ID: 613953003 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 02-MAR-23 10:56  
Receive Date: 10-MAR-23  
Collector: Client

---

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Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Nutrient Analysis</b>												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	0958	2395701	1

---

The following Analytical Methods were performed:

---

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

---

**Notes:**

*Column headers are defined as follows:*

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56406 Project: SOOP00119  
Sample ID: 613953004 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 10:29  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	0959	2395701	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56407 Project: SOOP00119  
Sample ID: 613953005 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 10:34  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	1001	2395701	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56418 Project: SOOP00119  
Sample ID: 613953006 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 12:07  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	1002	2395701	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 20, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56422 Project: SOOP00119  
Sample ID: 613953007 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 13:19  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3	03/13/23	1003	2395701	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2 Low Level		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## QC Summary

Report Date: March 20, 2023

Page 1 of 2

**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Ms. Jeanette Gilmetti**

**Contact:**  
**Workorder: 613953**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Nutrient Analysis</b>											
Batch	2395701										
QC1205340398	613378004	DUP									
Nitrogen, Nitrate/Nitrite		3.24		3.16	mg/L	2.5		(0%-20%)	AXH3	03/13/23	09:29
QC1205340397	LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.07	mg/L		107	(90%-110%)		03/13/23	09:25
QC1205340396	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					03/13/23	09:24
QC1205340399	613378004	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.324		1.32	mg/L		99.6	(90%-110%)		03/13/23	09:30

**Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 613953

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1		See case narrative									
R		Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.									
B		The target analyte was detected in the associated blank.									
e		5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes									
J		See case narrative for an explanation									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



**Technical Case Narrative**  
**Santee Cooper**  
**SDG #: 613953**

**General Chemistry**

**Product:** Nitrate/Nitrite Cad Redux Low Level

**Analytical Method:** EPA 353.2 Low Level

**Analytical Procedure:** GL-GC-E-128 REV# 11

**Analytical Batch:** 2395701

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613953001	AF56414
613953002	AF56423
613953003	AF56428
613953004	AF56406
613953005	AF56407
613953006	AF56418
613953007	AF56422
1205340396	Method Blank (MB)
1205340397	Laboratory Control Sample (LCS)
1205340398	613378004(NonSDG) Sample Duplicate (DUP)
1205340399	613378004(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Sample Dilutions**

The following samples 1205340398 (Non SDG 613378004DUP) and 1205340399 (Non SDG 613378004PS) were diluted because target analyte concentrations exceeded the calibration range. The following samples 613953001 (AF56414), 613953002 (AF56423), 613953003 (AF56428), 613953004 (AF56406), 613953005 (AF56407), 613953006 (AF56418) and 613953007 (AF56422) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	613953						
	001	002	003	004	005	006	007
Nitrogen, Nitrate/Nitrite	10X	10X	10X	10X	10X	10X	10X

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

613953

# Chain of Custody



Santee Cooper  
One Riverwood Drive  
Moncks Corner, SC 29461  
Phone: (843)761-8000 Ext. 5148  
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com

\_\_\_/\_\_\_/\_\_\_

125915 / JM02.09.G01.1 / 36500

Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	NO <sub>3</sub> /NO <sub>2</sub>
AF56414	WAP-15	3/2/23	1246	EDM ML	1	P	G	GW	3/1		X
23	WAP-23		0952								
28	WAP-27		1056								
06	WAP-12	3/9/22	1029								
07	WAP-12D		1034								
18	WAP-18		1207								
22	WAP-22		1319								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	3/10/23	1100	<i>M. An</i>	GEL	3/10/23	1100
<i>M. An</i>	GEL	3/10/23	1120	<i>Sjbrown</i>	GEL	3/10/23	1120

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

**SAMPLE RECEIPT & REVIEW FORM**

Client: Scop SDG/AR/COC/Work Order: 613953

Received By: JW Date Received: 3/10/23

Carrier and Tracking Number

Circle Applicable:  
 FedEx Express    FedEx Ground    UPS    Field Services    Courier    Other

Suspected Hazard Information    Yes    No    \*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous?        Hazard Class Shipped:    UN#:    If UN2910, Is the Radioactive Shipment Survey Compliant? Yes \_\_\_ No \_\_\_

B) Did the client designate the samples are to be received as radioactive?        COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive?        Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): 0 0 CPM mR/Hr  
 Classified as: Rad 1    Rad 2    Rad 3

D) Did the client designate samples are hazardous?        COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards?        If D or E is yes, select Hazards below.  
 PCB's    Flammable    Foreign Soil    RCRA    Asbestos    Beryllium    Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC    COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs    Dry ice    None    Other: *all temperatures are recorded in Celsius    TEMP: <u>2</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IRI-23</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers    No times on containers    COC missing info    Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC    Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished    Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JW Date 3/13/23 Page 1 of 1

**List of current GEL Certifications as of 20 March 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 21, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 613959

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 10, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613959 GEL Work Order: 613959

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- H Analytical holding time was exceeded
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

*Heather Millar*

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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56409 Project: SOOP00119  
Sample ID: 613959001 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 12:14  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		8.36	0.660	2.00	mg/L		2	TSM	03/21/23	0112	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	H	198	13.2	40.0	mg/L		400	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		344	2.42	6.67	mg/L			EK1	03/13/23	1409	2397768	3
Bicarbonate alkalinity (CaCO3)		344	2.42	6.67	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.42	6.67	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56409 Project: SOOP00119  
Sample ID: 613959002 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 12:14  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		8.18	0.660	2.00	mg/L		2	TSM	03/20/23	1639	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/17/23	1237	2397540
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56410 Project: SOOP00119  
Sample ID: 613959003 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 12:19  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		8.00	0.660	2.00	mg/L		2	TSM	03/21/23	0217	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	H	69.6	6.60	20.0	mg/L		200	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		339	2.07	5.71	mg/L			EK1	03/13/23	1420	2397768	3
Bicarbonate alkalinity (CaCO3)		339	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56410 Project: SOOP00119  
Sample ID: 613959004 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 12:19  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.7	1.65	5.00	mg/L		5	TSM	03/16/23	1637	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56411 Project: SOOP00119  
Sample ID: 613959005 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 11:08  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		4.17	0.330	1.00	mg/L		1	TSM	03/21/23	0239	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	H	59.2	3.30	10.0	mg/L		100	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		221	2.07	5.71	mg/L			EK1	03/13/23	1426	2397768	3
Bicarbonate alkalinity (CaCO3)		221	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56411 Project: SOOP00119  
Sample ID: 613959006 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 11:08  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		6.08	1.65	5.00	mg/L		5	TSM	03/16/23	1658	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56412 Project: SOOP00119  
Sample ID: 613959007 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 15:15  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.81	0.330	1.00	mg/L		1	TSM	03/21/23	0301	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	UH	ND	0.825	2.50	mg/L		25	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		157	2.07	5.71	mg/L			EK1	03/13/23	1431	2397768	3
Bicarbonate alkalinity (CaCO3)		157	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56412 Project: SOOP00119  
Sample ID: 613959008 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 15:15  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		3.44	0.330	1.00	mg/L		1	TSM	03/20/23	1744	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540
EPA 160	Laboratory Filtration - DOC	TSM	03/17/23	1237	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56413      Project: SOOP00119  
Sample ID: 613959009      Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 13:41  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.895	0.330	1.00	mg/L		1	TSM	03/21/23	0323	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1924	2396527	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	2.07	5.71	mg/L			EK1	03/13/23	1434	2397768	3
Bicarbonate alkalinity (CaCO3)		104	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56413 Project: SOOP00119  
Sample ID: 613959010 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 13:41  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		1.61	0.330	1.00	mg/L		1	TSM	03/16/23	1740	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56430 Project: SOOP00119  
Sample ID: 613959011 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 10:10  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		3.76	0.330	1.00	mg/L		1	TSM	03/21/23	0405	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1924	2396527	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		126	2.07	5.71	mg/L			EK1	03/13/23	1439	2397768	3
Bicarbonate alkalinity (CaCO3)		126	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper  
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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56430 Project: SOOP00119  
Sample ID: 613959012 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 06-MAR-23 10:10  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		4.42	0.330	1.00	mg/L		1	TSM	03/16/23	1824	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56419 Project: SOOP00119  
Sample ID: 613959013 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 14:51  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.6	0.330	1.00	mg/L		1	TSM	03/21/23	0427	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1925	2396527	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		222	2.07	5.71	mg/L			EK1	03/13/23	1441	2397768	3
Bicarbonate alkalinity (CaCO3)		222	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper  
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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56419 Project: SOOP00119  
Sample ID: 613959014 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 14:51  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		8.47	0.330	1.00	mg/L		1	TSM	03/16/23	1846	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56425 Project: SOOP00119  
Sample ID: 613959015 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 12:49  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.77	0.330	1.00	mg/L		1	TSM	03/21/23	0447	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1907	2395803	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		183	2.07	5.71	mg/L			EK1	03/13/23	1444	2397768	3
Bicarbonate alkalinity (CaCO3)		183	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56425 Project: SOOP00119  
Sample ID: 613959016 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 12:49  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		3.09	0.330	1.00	mg/L		1	TSM	03/16/23	1906	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56426 Project: SOOP00119  
Sample ID: 613959017 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 10:22  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.05	0.330	1.00	mg/L		1	TSM	03/21/23	0507	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1907	2395803	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		7.14	2.07	5.71	mg/L			EK1	03/13/23	1447	2397768	3
Bicarbonate alkalinity (CaCO3)		7.14	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56426 Project: SOOP00119  
Sample ID: 613959018 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 10:22  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average	J	0.864	0.330	1.00	mg/L		1	TSM	03/16/23	1926	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56427 Project: SOOP00119  
Sample ID: 613959019 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 10:27  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.730	0.330	1.00	mg/L		1	TSM	03/21/23	0526	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	J	0.0420	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.3	2.07	5.71	mg/L			EK1	03/13/23	1450	2397768	3
Bicarbonate alkalinity (CaCO3)		10.3	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper  
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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56427 Project: SOOP00119  
Sample ID: 613959020 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 10:27  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average	J	0.950	0.330	1.00	mg/L		1	TSM	03/16/23	1947	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56408 Project: SOOP00119  
Sample ID: 613959021 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 13:38  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		9.05	0.330	1.00	mg/L		1	TSM	03/21/23	0546	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		481	2.07	5.71	mg/L			EK1	03/13/23	1456	2397768	3
Bicarbonate alkalinity (CaCO3)		481	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56408 Project: SOOP00119  
Sample ID: 613959022 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 13:38  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		7.68	0.330	1.00	mg/L		1	TSM	03/20/23	1806	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540
EPA 160	Laboratory Filtration - DOC	TSM	03/17/23	1237	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56415 Project: SOOP00119  
Sample ID: 613959023 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 15:13  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		21.1	0.660	2.00	mg/L		2	TSM	03/21/23	0608	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		322	2.07	5.71	mg/L			EK1	03/13/23	1507	2397768	3
Bicarbonate alkalinity (CaCO3)		322	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56415 Project: SOOP00119  
Sample ID: 613959024 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 15:13  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		19.2	0.330	1.00	mg/L		1	TSM	03/16/23	2114	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56416 Project: SOOP00119  
Sample ID: 613959025 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 10:09  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.1	0.330	1.00	mg/L		1	TSM	03/21/23	0708	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	J	0.0396	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		67.4	2.07	5.71	mg/L			EK1	03/13/23	1511	2397768	3
Bicarbonate alkalinity (CaCO3)		67.4	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56416 Project: SOOP00119  
Sample ID: 613959026 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 10:09  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.1	0.330	1.00	mg/L		1	TSM	03/16/23	2134	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56417 Project: SOOP00119  
Sample ID: 613959027 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 10:14  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.5	0.330	1.00	mg/L		1	TSM	03/21/23	0750	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		59.4	2.07	5.71	mg/L			EK1	03/13/23	1513	2397768	3
Bicarbonate alkalinity (CaCO3)		59.4	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56417 Project: SOOP00119  
Sample ID: 613959028 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 10:14  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.7	0.330	1.00	mg/L		1	TSM	03/16/23	2216	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56429	Project: SOOP00119
Sample ID: 613959029	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-MAR-23 12:12	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Carbon Analysis</b>												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.31	0.330	1.00	mg/L		1	TSM	03/21/23	0810	2397544	1
<b>Spectrometric Analysis</b>												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
<b>Titration and Ion Analysis</b>												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		13.1	2.07	5.71	mg/L			EK1	03/13/23	1515	2397768	3
Bicarbonate alkalinity (CaCO3)		13.1	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

**Notes:**

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56429 Project: SOOP00119  
Sample ID: 613959030 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 08-MAR-23 12:12  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		2.22	0.330	1.00	mg/L		1	TSM	03/16/23	2236	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56406 Project: SOOP00119  
Sample ID: 613959031 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 10:29  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		7.15	0.330	1.00	mg/L		1	TSM	03/21/23	0830	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	5.43	2.07	5.71	mg/L			EK1	03/13/23	1518	2397768	3
Bicarbonate alkalinity (CaCO3)	J	5.43	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56406 Project: SOOP00119  
Sample ID: 613959032 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 10:29  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		6.20	0.330	1.00	mg/L		1	TSM	03/16/23	2257	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56407 Project: SOOP00119  
Sample ID: 613959033 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 10:34  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		7.16	0.330	1.00	mg/L		1	TSM	03/21/23	0850	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		7.14	2.07	5.71	mg/L			EK1	03/13/23	1521	2397768	3
Bicarbonate alkalinity (CaCO3)		7.14	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56407 Project: SOOP00119  
Sample ID: 613959034 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 10:34  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		6.25	0.330	1.00	mg/L		1	TSM	03/16/23	2317	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56418 Project: SOOP00119  
Sample ID: 613959035 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 12:07  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.3	0.330	1.00	mg/L		1	TSM	03/21/23	0910	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.0	2.07	5.71	mg/L			EK1	03/13/23	1523	2397768	3
Bicarbonate alkalinity (CaCO3)		32.0	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56418 Project: SOOP00119  
Sample ID: 613959036 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 12:07  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		10.1	0.330	1.00	mg/L		1	TSM	03/16/23	2337	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56422 Project: SOOP00119  
Sample ID: 613959037 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 13:19  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		3.78	0.330	1.00	mg/L		1	TSM	03/21/23	0930	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		282	2.07	5.71	mg/L			EK1	03/13/23	1524	2397768	3
Bicarbonate alkalinity (CaCO3)		282	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: March 21, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56422 Project: SOOP00119  
Sample ID: 613959038 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 09-MAR-23 13:19  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carbon Average		2.90	0.330	1.00	mg/L		1	TSM	03/16/23	2357	2399632	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## QC Summary

Report Date: March 21, 2023

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Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 613959

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Carbon Analysis</b>											
Batch 2397544											
QC1205343816	613959001	DUP									
Total Organic Carbon Average		8.36		8.18	mg/L	2.15 ^		(+/-2.00)	TSM	03/21/23	01:34
QC1205343817	613959023	DUP									
Total Organic Carbon Average		21.1		21.1	mg/L	0.104		(0%-20%)		03/21/23	06:28
QC1205343815	LCS										
Total Organic Carbon Average	10.0			9.96	mg/L		99.6	(80%-120%)		03/21/23	00:38
QC1205343814	MB										
Total Organic Carbon Average			U	ND	mg/L					03/21/23	00:28
QC1205343818	613959001	PS									
Total Organic Carbon Average	10.0	4.18		13.4	mg/L		92.5	(65%-120%)		03/21/23	01:56
QC1205343819	613959023	PS									
Total Organic Carbon Average	10.0	10.5		22.1	mg/L		116	(65%-120%)		03/21/23	06:48
Batch 2399632											
QC1205343804	613959002	DUP									
Dissolved Organic Carbon Average		8.18		8.04	mg/L	1.78 ^		(+/-2.00)	TSM	03/20/23	17:01
QC1205343805	613959022	DUP									
Dissolved Organic Carbon Average		7.68		7.55	mg/L	1.75		(0%-20%)		03/20/23	18:29
QC1205343803	FB										
Dissolved Organic Carbon Average			U	ND	mg/L					03/16/23	15:12
Dissolved Organic Carbon Average			U	ND	mg/L					03/20/23	16:29

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## QC Summary

Workorder: 613959

Page 2 of 5

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Carbon Analysis</b>											
Batch	2399632										
QC1205347787	LCS										
Dissolved Organic Carbon Average	10.0			9.94	mg/L		99.4	(80%-120%)	TSM	03/16/23	15:23
QC1205347786	MB										
Dissolved Organic Carbon Average			U	ND	mg/L					03/16/23	15:02
QC1205343806	613959002 PS										
Dissolved Organic Carbon Average	10.0		4.09	4.49	mg/L		3.98*	(65%-120%)		03/20/23	17:23
QC1205343807	613959022 PS										
Dissolved Organic Carbon Average	10.0		7.68	12.2	mg/L		45.7*	(65%-120%)		03/20/23	18:51
<b>Spectrometric Analysis</b>											
Batch	2395803										
QC1205340625	LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	HH2	03/13/23	19:07
QC1205340624	MB										
Total Sulfide			U	ND	mg/L					03/13/23	19:07
QC1205343956	613152021 PS										
Total Sulfide	0.400	U	ND	0.437	mg/L		109	(75%-125%)		03/13/23	19:07
QC1205343957	613152021 PSD										
Total Sulfide	0.400	U	ND	0.438	mg/L	0.266	109	(0%-15%)		03/13/23	19:07
Batch	2396527										
QC1205341655	LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	HH2	03/13/23	19:24
QC1205341654	MB										
Total Sulfide			U	ND	mg/L					03/13/23	19:24

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## QC Summary

Workorder: 613959

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Spectrometric Analysis</b>											
Batch 2396527											
QC1205344918	613959009	PS									
Total Sulfide	0.400	U	ND	0.403	mg/L		100	(75%-125%)	HH2	03/13/23	19:24
QC1205344919	613959009	PSD									
Total Sulfide	0.400	U	ND	0.402	mg/L	0.289	100	(0%-15%)		03/13/23	19:25
Batch 2397596											
QC1205343969	LCS										
Total Sulfide	0.400			0.404	mg/L		101	(85%-115%)	HH2	03/14/23	17:59
QC1205343968	MB										
Total Sulfide			U	ND	mg/L					03/14/23	17:59
QC1205343970	613959019	PS									
Total Sulfide	0.400	J	0.0420	0.423	mg/L		95.2	(75%-125%)		03/14/23	17:59
QC1205345470	613959033	PS									
Total Sulfide	0.400	U	ND	0.247	mg/L		59.7*	(75%-125%)		03/14/23	17:59
QC1205343971	613959019	PSD									
Total Sulfide	0.400	J	0.0420	0.425	mg/L	0.549	95.8	(0%-15%)		03/14/23	17:59
QC1205345471	613959033	PSD									
Total Sulfide	0.400	U	ND	0.250	mg/L	1.4	60.5*	(0%-15%)		03/14/23	17:59
<b>Titration and Ion Analysis</b>											
Batch 2397768											
QC1205344345	613959001	DUP									
Alkalinity, Total as CaCO3			344	344	mg/L	0.0969		(0%-20%)	EK1	03/13/23	14:11
Bicarbonate alkalinity (CaCO3)			344	344	mg/L	0.0969		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				



# GEL LABORATORIES LLC

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## QC Summary

Workorder: 613959

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Titration and Ion Analysis</b>											
Batch	2397768										
QC1205344347	613959021	DUP									
Alkalinity, Total as CaCO3		481		482	mg/L	0.238		(0%-20%)	EK1	03/13/23	15:00
Bicarbonate alkalinity (CaCO3)		481		482	mg/L	0.238		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205344344	LCS										
Alkalinity, Total as CaCO3	100			106	mg/L		106	(90%-110%)		03/13/23	14:04
QC1205344346	613959001	MS									
Alkalinity, Total as CaCO3	167	344		513	mg/L		102	(80%-120%)		03/13/23	14:15
QC1205344348	613959021	MS									
Alkalinity, Total as CaCO3	143	481		595	mg/L		80.4	(80%-120%)		03/13/23	15:04

**Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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## QC Summary

Workorder: 613959

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1		See case narrative									
R		Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.									
B		The target analyte was detected in the associated blank.									
e		5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes									
J		See case narrative for an explanation									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 613959**

**Product:** Carbon, Total Organic

**Analytical Method:** SM 5310 B

**Analytical Procedure:** GL-GC-E-093 REV# 21

**Analytical Batch:** 2397544

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613959001	AF56409
613959003	AF56410
613959005	AF56411
613959007	AF56412
613959009	AF56413
613959011	AF56430
613959013	AF56419
613959015	AF56425
613959017	AF56426
613959019	AF56427
613959021	AF56408
613959023	AF56415
613959025	AF56416
613959027	AF56417
613959029	AF56429
613959031	AF56406
613959033	AF56407
613959035	AF56418
613959037	AF56422
1205343814	Method Blank (MB)
1205343815	Laboratory Control Sample (LCS)
1205343816	613959001(AF56409) Sample Duplicate (DUP)
1205343817	613959023(AF56415) Sample Duplicate (DUP)
1205343818	613959001(AF56409) Post Spike (PS)
1205343819	613959023(AF56415) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Sample Dilutions**

The following samples 1205343817 (AF56415DUP), 1205343819 (AF56415PS) and 613959023 (AF56415) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205343816 (AF56409DUP), 1205343818 (AF56409PS), 613959001 (AF56409) and 613959003 (AF56410) in

this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	613959		
	001	003	023
Total Organic Carbon Average	2X	2X	2X

**Product:** Carbon, Dissolved Organic

**Analytical Method:** SM 5310 B

**Analytical Procedure:** GL-GC-E-093 REV# 21

**Analytical Batch:** 2399632

**Filtration Method:** EPA 160

**Filtration Procedure:** GL-LB-E-034 REV# 4

**Filtration Batch:** 2397540

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613959002	AF56409
613959004	AF56410
613959006	AF56411
613959008	AF56412
613959010	AF56413
613959012	AF56430
613959014	AF56419
613959016	AF56425
613959018	AF56426
613959020	AF56427
613959022	AF56408
613959024	AF56415
613959026	AF56416
613959028	AF56417
613959030	AF56429
613959032	AF56406
613959034	AF56407
613959036	AF56418
613959038	AF56422
1205343803	Foam Blank (FB)
1205343804	613959002(AF56409 ) Sample Duplicate (DUP)
1205343805	613959022(AF56408) Sample Duplicate (DUP)
1205343806	613959002(AF56409 ) Post Spike (PS)
1205343807	613959022(AF56408) Post Spike (PS)
1205347786	Method Blank (MB)
1205347787	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and

procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Dissolved Organic Carbon Average	1205343806 (AF56409 PS)	3.98* (65%-120%)
	1205343807 (AF56408PS)	45.7* (65%-120%)

Both QC's was rerun to verify recoveries.

Sample	Analyte	Value
1205343806 (AF56409 PS)	Dissolved Organic Carbon Average	3.98* (65%-120%)
1205343807 (AF56408PS)	Dissolved Organic Carbon Average	45.7* (65%-120%)

**Miscellaneous Information**

**Additional Comments**

The following sample was reanalyzed neat. 613959008 (AF56412).

**Product: Sulfide, Total**

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2395803

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613959015	AF56425
613959017	AF56426
1205340624	Method Blank (MB)
1205340625	Laboratory Control Sample (LCS)
1205343956	613152021(NonSDG) Post Spike (PS)
1205343957	613152021(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product: Sulfide, Total**

**Analytical Method:** SM 4500-S (2-) D  
**Analytical Procedure:** GL-GC-E-052 REV# 12  
**Analytical Batch:** 2396527

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613959009	AF56413
613959011	AF56430
613959013	AF56419
1205341654	Method Blank (MB)
1205341655	Laboratory Control Sample (LCS)
1205344918	613959009(AF56413) Post Spike (PS)
1205344919	613959009(AF56413) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product: Sulfide, Total**

**Analytical Method:** SM 4500-S (2-) D  
**Analytical Procedure:** GL-GC-E-052 REV# 12  
**Analytical Batch:** 2397596

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613959001	AF56409
613959003	AF56410
613959005	AF56411
613959007	AF56412
613959019	AF56427
613959021	AF56408
613959023	AF56415
613959025	AF56416
613959027	AF56417
613959029	AF56429
613959031	AF56406
613959033	AF56407
613959035	AF56418
613959037	AF56422
1205343968	Method Blank (MB)
1205343969	Laboratory Control Sample (LCS)
1205343970	613959019(AF56427) Post Spike (PS)
1205343971	613959019(AF56427) Post Spike Duplicate (PSD)
1205345470	613959033(AF56407) Post Spike (PS)
1205345471	613959033(AF56407) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205345470 (AF56407PS)	59.7* (75%-125%)
	1205345471 (AF56407PSD)	60.5* (75%-125%)

**Technical Information**

**Holding Times**

Samples 613959001 (AF56409), 613959003 (AF56410), 613959005 (AF56411) and 613959007 (AF56412) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of diluted samples. The data is qualified.

**Sample Dilutions**

The following samples 613959001 (AF56409), 613959003 (AF56410) and 613959005 (AF56411) were diluted because target analyte concentrations exceeded the calibration range. The following sample 613959007 (AF56412) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	613959			
	001	003	005	007
Total Sulfide	400X	200X	100X	25X

**Product: Alkalinity**

**Analytical Method:** SM 2320B

**Analytical Procedure:** GL-GC-E-033 REV# 14

**Analytical Batch:** 2397768

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613959001	AF56409
613959003	AF56410
613959005	AF56411
613959007	AF56412
613959009	AF56413
613959011	AF56430
613959013	AF56419
613959015	AF56425

613959017	AF56426
613959019	AF56427
613959021	AF56408
613959023	AF56415
613959025	AF56416
613959027	AF56417
613959029	AF56429
613959031	AF56406
613959033	AF56407
613959035	AF56418
613959037	AF56422
1205344344	Laboratory Control Sample (LCS)
1205344345	613959001(AF56409) Sample Duplicate (DUP)
1205344346	613959001(AF56409) Matrix Spike (MS)
1205344347	613959021(AF56408) Sample Duplicate (DUP)
1205344348	613959021(AF56408) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Miscellaneous Information**

**Additional Comments**

35 mL aliquots were used due to sample concentration

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



### Chain of Custody



Customer Email/Report Recipient: LCWILLIA@santeecooper.com Date Results Needed by:     /    /     Project/Task/Unit #: 125915 / JM02.09.GP1.1 / 36500 Rerun request for any flagged QC: Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle types (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOC/DOC	ALKALINITY	SULFIDE	RAD 226 + 228	TOTAL RAD CALC
AF56409	WAP-14	3/6/23	1214	ZDM ML	6	P/G	G	GW	*	* SULFIDE HAS SHORT HOLD	2	1	1	2	
10	WAP-14D		1219												
11	WAP-14A		1108							* PRESERVATIVES					
12	WAP-14B		1515							TOC - H2SO4 SULFIDE EWACETATE, NaOH					
13	WAP-14C		1341							RAD #NO3 24°C					
30	WAP-29		1010												
AF56419	WAP-19	3/7/23	1451							ALKAL - TOTAL, BICARB, CARB					
25	25		1249							RAD - INCLUDE TOTAL CALC.					
26	26		1022							DOC - NOT FIELD FILTERED					
27	26D		1027												

Relinquished by: <u>Sibrown</u>	Employee# <u>35594</u>	Date <u>3/10/23</u>	Time <u>1100</u>	Received by: <u>M. An</u>	Employee # <u>GEL</u>	Date <u>3/10/23</u>	Time <u>1100</u>
Relinquished by: <u>M. An</u>	Employee# <u>GEL</u>	Date <u>3-10-23</u>	Time <u>1620</u>	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> DOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Petroleum
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> TPT/PO4	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum Cell	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Oil	<input type="checkbox"/> Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> NH4-N	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> Iodo	<input type="checkbox"/> Ash	<input type="checkbox"/> Carbon	<input type="checkbox"/> Ash
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NO2	<input type="checkbox"/> VOC	<input type="checkbox"/> Alum	<input type="checkbox"/> Sulph	<input type="checkbox"/> Sulph	<input type="checkbox"/> Sulph
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> NO3	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> P/PO4	<input type="checkbox"/> ETU	<input type="checkbox"/> Family	<input type="checkbox"/> Nitrogen
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> SO4	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sludge	<input type="checkbox"/> Volatile
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> Total Coliform	<input type="checkbox"/> pH	<input type="checkbox"/> CHN	<input type="checkbox"/> Moisture	<input type="checkbox"/> Moisture
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> pH	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Other Tests	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> XRF Scan
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg		<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> Rad 226	<input type="checkbox"/> HGI	<input type="checkbox"/> Fineness	<input type="checkbox"/> Fineness
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> Rad 228	<input type="checkbox"/> PCB	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Particulate Matter

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

RAD - 4/17/23

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 20 / 23 Send report to lcwillia@santecooper.com & sjbrown@santecooper.com



Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC Yes (No)

Analysis Group

Main Chain of Custody table with columns: Labworks ID #, Sample Location/Description, Collection Date, Collection Time, Sample Collector, Total # of containers, Bottle type, Grab or Composite, Matrix, Preservative, Comments, and Analysis Group columns (TDC/DOC, ALKALINITY, SULFIDE, RAD 226/228).

Relinquished by / Received by table with columns: Relinquished by, Employee #, Date, Time, Received by, Employee #, Date, Time.

Sample Receiving (Internal Use Only) TEMP (°C): Initial: Correct pH: Yes No Preservative Lot#: Date/Time/Init for preservative:

Checklist grid for METALS (all), Nutrients, MISC., Gypsum, Coal, Flyash, and Oil.

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-llimestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section) Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



Laboratories LLC

### SAMPLE RECEIPT & REVIEW FORM

Client: **SOOP** SDG/AR/COC/Work Order: **613963 / 613959**

Received By: **Anna Johnson** Date Received: **March 10, 2023**

Carrier and Tracking Number: **Anna Johnson** Circle Applicable: **Courier** FedEx Express FedEx Ground UPS Field Services Other

Suspected Hazard Information: **Yes** **No** \*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? **Yes** **No** Hazard Class Shipped: **UN#:** If UN2910, Is the Radioactive Shipment Survey Compliant? Yes \_\_\_ No \_\_\_

B) Did the client designate the samples are to be received as radioactive? **Yes** **No** COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? **Yes** **No** Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): **0** CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? **Yes** **No** COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? **Yes** **No** If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria: **Yes** **NA** **No** Comments/Qualifiers (Required for Non-Conforming Items)

1 Shipping containers received intact and sealed? **Yes** **NA** **No** Circle Applicable: Seals broken Damaged container Leaking container Other (describe)

2 Chain of custody documents included with shipment? **Yes** **NA** **No** Circle Applicable: Client contacted and provided COC COC created upon receipt

3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?\* **Yes** **NA** **No** Preservation Method: **Wet Ice** Ice Packs Dry Ice None Other: **Gchem - 2°** **Rchem** TEMP: **20.3°C**

4 Daily check performed and passed on IR temperature gun? **Yes** **NA** **No** Temperature Device Serial #: **IR3-22** Secondary Temperature Device Serial # (If Applicable):

5 Sample containers intact and sealed? **Yes** **NA** **No** Circle Applicable: Seals broken Damaged container Leaking container Other (describe)

6 Samples requiring chemical preservation at proper pH? **Yes** **NA** **No** Sample ID's and Containers Affected:

If Preservation added, Lot#: **IR3-22** If Yes, are Encores or Soil Kits present for solids? Yes \_\_\_ No \_\_\_ NA \_\_\_ (If yes, take to VOA Freezer)

7 Do any samples require Volatile Analysis? **Yes** **NA** **No** Do liquid VOA vials contain acid preservation? Yes \_\_\_ No \_\_\_ NA \_\_\_ (If unknown, select No)

Are liquid VOA vials free of headspace? Yes \_\_\_ No \_\_\_ NA \_\_\_ Sample ID's and containers affected:

8 Samples received within holding time? **Yes** **NA** **No** ID's and tests affected:

9 Sample ID's on COC match ID's on bottles? **Yes** **NA** **No** ID's and containers affected: **\***

10 Date & time on COC match date & time on bottles? **Yes** **NA** **No** Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)

11 Number of containers received match number indicated on COC? **Yes** **NA** **No** Circle Applicable: No container count on COC Other (describe)

12 Are sample containers identifiable as GEL provided by use of GEL labels? **Yes** **NA** **No**

13 COC form is properly signed in relinquished/received sections? **Yes** **NA** **No** Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed): **\*COC says AF WAP-28. Container says WAP-8... dates/times correct. (hand written sample ID)**

**List of current GEL Certifications as of 21 March 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



April 11, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 613963

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 10, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Sample ID on the container did not match the sample ID on the Chain of Custody. *613963015(AF56429)*.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613963 GEL Work Order: 613963

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

  
\_\_\_\_\_

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56409	Project: SOOP00119
Sample ID: 613963001	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 06-MAR-23 12:14	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.18	+/-1.16	1.68	3.00	pCi/L		JE1	04/04/23	1245	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.15	+/-1.26			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.971	+/-0.495	0.366	1.00	pCi/L		LXP1	04/11/23	0819	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56410	Project: SOOP00119
Sample ID: 613963002	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 06-MAR-23 12:19	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.73	+/-0.952	1.36	3.00	pCi/L		JE1	04/04/23	1245	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.14	+/-1.01			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.405	+/-0.330	0.406	1.00	pCi/L		LXP1	04/11/23	0819	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			82.7	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56411	Project: SOOP00119
Sample ID: 613963003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 06-MAR-23 11:08	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.627	+/-1.16	2.05	3.00	pCi/L		JE1	04/04/23	1245	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.30	+/-1.23			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.673	+/-0.404	0.395	1.00	pCi/L		LXP1	04/11/23	0819	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56412	Project: SOOP00119
Sample ID: 613963004	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 06-MAR-23 15:15	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.54	+/-1.09	1.65	3.00	pCi/L		JE1	04/04/23	1246	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.48	+/-1.52			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.95	+/-1.06	0.613	1.00	pCi/L		LXP1	04/11/23	0819	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.5	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56413	Project: SOOP00119
Sample ID: 613963005	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 06-MAR-23 13:41	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.35	+/-1.31	2.15	3.00	pCi/L		JE1	04/04/23	1246	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.49	+/-1.49			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.14	+/-0.717	0.503	1.00	pCi/L		LXP1	04/11/23	0819	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			65.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56430	Project: SOOP00119
Sample ID: 613963006	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 06-MAR-23 10:10	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.88	+/-1.61	2.36	3.00	pCi/L		JE1	04/04/23	1246	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.38	+/-1.64			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.499	+/-0.350	0.343	1.00	pCi/L		LXP1	04/11/23	0819	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			55.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56419	Project: SOOP00119
Sample ID: 613963007	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 07-MAR-23 14:51	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.89	+/-1.13	1.72	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		2.70	+/-1.24			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.809	+/-0.511	0.606	1.00	pCi/L		LXP1	04/11/23	0819	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF56425 Project: SOOP00119  
Sample ID: 613963008 Client ID: SOOP001  
Matrix: Ground Water  
Collect Date: 07-MAR-23 12:49  
Receive Date: 10-MAR-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-0.250	+/-0.593	1.24	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.520	+/-0.729			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.520	+/-0.424	0.550	1.00	pCi/L		LXP1	04/11/23	0819	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.3	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration    SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56426	Project: SOOP00119
Sample ID: 613963009	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 07-MAR-23 10:22	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-1.31	+/-1.21	2.50	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.567	+/-1.28			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.567	+/-0.398	0.390	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56427	Project: SOOP00119
Sample ID: 613963010	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 07-MAR-23 10:27	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.0970	+/-0.674	1.31	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.05	+/-0.832			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.958	+/-0.488	0.361	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.7	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56408	Project: SOOP00119
Sample ID: 613963011	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-MAR-23 13:38	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.311	+/-0.884	1.62	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.84	+/-1.08			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.53	+/-0.619	0.431	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.7	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56415	Project: SOOP00119
Sample ID: 613963012	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-MAR-23 15:13	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	1.63	+/-1.08	1.65	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.33	+/-1.29			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.69	+/-0.717	0.572	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56416	Project: SOOP00119
Sample ID: 613963013	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-MAR-23 10:09	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.331	+/-0.898	1.61	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.476	+/-0.942			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.145	+/-0.285	0.545	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.6	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56417	Project: SOOP00119
Sample ID: 613963014	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-MAR-23 10:14	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.50	+/-1.09	1.51	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.19	+/-1.18			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.690	+/-0.459	0.562	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89.6	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

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Client Sample ID: AF56429	Project: SOOP00119
Sample ID: 613963015	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-MAR-23 12:12	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		3.39	+/-1.22	1.54	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.97	+/-1.29			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.578	+/-0.409	0.483	1.00	pCi/L		LXP1	04/11/23	0854	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.1	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56406	Project: SOOP00119
Sample ID: 613963016	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-MAR-23 10:29	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.757	+/-0.814	1.35	3.00	pCi/L		JE1	04/04/23	1246	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.81	+/-0.979			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.06	+/-0.544	0.508	1.00	pCi/L		LXP1	04/11/23	0854	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			84.9	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56407	Project: SOOP00119
Sample ID: 613963017	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-MAR-23 10:34	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.0962	+/-1.20	2.19	3.00	pCi/L		JE1	04/04/23	1246	2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.39	+/-1.35			pCi/L		NXL1	04/11/23	1121	2402065	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.29	+/-0.623	0.554	1.00	pCi/L		LXP1	04/11/23	0930	2402018	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56418	Project: SOOP00119
Sample ID: 613963018	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-MAR-23 12:07	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.0769	+/-0.950	1.77	3.00	pCi/L		JE1	04/04/23	1246	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.17	+/-1.09			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.09	+/-0.528	0.499	1.00	pCi/L		LXP1	04/11/23	0930	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			81.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: April 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF56422	Project: SOOP00119
Sample ID: 613963019	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-MAR-23 13:19	
Receive Date: 10-MAR-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.992	+/-0.901	1.45	3.00	pCi/L		JE1	04/04/23	1247	2402066		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.31	+/-1.07			pCi/L		NXL1	04/11/23	1121	2402065		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.32	+/-0.571	0.464	1.00	pCi/L		LXP1	04/11/23	0930	2402018		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## QC Summary

Report Date: April 11, 2023

Page 1 of 2

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 613963

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2402066										
QC1205352839	613963001	DUP									
Radium-228		2.18	U	1.38	pCi/L	45.2		(0% - 100%)	JE1	04/04/23	12:45
	Uncertainty	+/-1.16		+/-1.13							
QC1205352840	LCS										
Radium-228	81.6			77.8	pCi/L		95.3	(75%-125%)		04/04/23	12:45
	Uncertainty			+/-4.42							
QC1205352838	MB										
Radium-228			U	0.382	pCi/L					04/04/23	12:45
	Uncertainty			+/-0.779							
<b>Rad Ra-226</b>											
Batch	2402018										
QC1205352737	613963001	DUP									
Radium-226		0.971		0.957	pCi/L	1.4		(0% - 100%)	LXP1	04/11/23	09:30
	Uncertainty	+/-0.495		+/-0.511							
QC1205352739	LCS										
Radium-226	26.4			22.4	pCi/L		84.9	(75%-125%)		04/11/23	09:30
	Uncertainty			+/-2.39							
QC1205352736	MB										
Radium-226			U	0.253	pCi/L					04/11/23	09:30
	Uncertainty			+/-0.405							
QC1205352738	613963001	MS									
Radium-226	132	0.971		101	pCi/L		75.9	(75%-125%)		04/11/23	09:30
	Uncertainty	+/-0.495		+/-10.7							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

# GEL LABORATORIES LLC

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## QC Summary

Workorder: 613963

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 613963**

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified

**Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2402066

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613963001	AF56409
613963002	AF56410
613963003	AF56411
613963004	AF56412
613963005	AF56413
613963006	AF56430
613963007	AF56419
613963008	AF56425
613963009	AF56426
613963010	AF56427
613963011	AF56408
613963012	AF56415
613963013	AF56416
613963014	AF56417
613963015	AF56429
613963016	AF56406
613963017	AF56407
613963018	AF56418
613963019	AF56422
1205352838	Method Blank (MB)
1205352839	613963001(AF56409) Sample Duplicate (DUP)
1205352840	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Preparation Information**

**Homogenous Matrix**

Samples 613963012 (AF56415), 613963013 (AF56416), 613963014 (AF56417), 613963016 (AF56406), 613963017 (AF56407) and 613963018 (AF56418) were non-homogenous matrix. yellow tint 613963012 (AF56415), 613963013 (AF56416), 613963014 (AF56417), 613963016 (AF56406), 613963017 (AF56407) and 613963018 (AF56418).

**Product:** Lucas Cell, Ra226, Liquid

**Analytical Method:** EPA 903.1 Modified

**Analytical Procedure:** GL-RAD-A-008 REV# 15

**Analytical Batch:** 2402018

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
613963001	AF56409
613963002	AF56410
613963003	AF56411
613963004	AF56412
613963005	AF56413
613963006	AF56430
613963007	AF56419
613963008	AF56425
613963009	AF56426
613963010	AF56427
613963011	AF56408
613963012	AF56415
613963013	AF56416
613963014	AF56417
613963015	AF56429
613963016	AF56406
613963017	AF56407
613963018	AF56418
613963019	AF56422
1205352736	Method Blank (MB)
1205352737	613963001(AF56409) Sample Duplicate (DUP)
1205352738	613963001(AF56409) Matrix Spike (MS)
1205352739	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Preparation Information**

**Homogenous Matrix**

Samples 613963012 (AF56415), 613963013 (AF56416), 613963014 (AF56417), 613963017 (AF56407) and 613963018 (AF56418) were non-homogenous matrix.

**Miscellaneous Information**

**Additional Comments**

The matrix spike, 1205352738 (AF56409MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

613959

RAD - 4/17/23

613963

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 20 / 23

Send report to lcwillia@santecooper.com & sjbrown@santecooper.com



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Chain of Custody

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santecooper.com

/ /

125915 / JMO2.09.681.1 / 36500

Yes (No)

Analysis Group

Table with columns: Labworks ID # (Internal use only), Sample Location/Description, Collection Date, Collection Time, Sample Collector, Total # of containers, Bottle type: (Glass-G/Plastic-P), Grab (G) or Composite (C), Matrix(see below), Preservative (see below), Comments, TOC/DOC, ALKALINITY, SULFIDE, RAD 226+228, TOTAL RAD CALC.

Table with columns: Relinquished by, Employee#, Date, Time, Received by, Employee #, Date, Time. Includes handwritten entries for GEL and M. An.

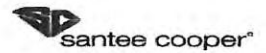
Sample Receiving (Internal Use Only)
TEMP (°C): Initial:
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

Checklist for analysis groups: METALS (all), Nutrients, MISC., Gypsum, Coal, Flyash, Oil. Includes checkboxes for various parameters like Ag, Cu, Sb, TOC, DOC, TP/TPO4, etc.

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

RAD - 4/17/23

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 20 / 23 Send report to lcwillia@santecooper.com & sjbrown@santecooper.com



Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.09. G01.1 / 36500 Rerun request for any flagged QC Yes (No)

Analysis Group

Main Chain of Custody table with columns: Labworks ID #, Sample Location/Description, Collection Date, Collection Time, Sample Collector, Total # of containers, Bottle type, Matrix, Preservative, Comments, TOC/DOC, ALKALINITY, SULFIDE, RAD 226/228, TOTAL RAD CALC.

Relinquished by/Received by table with columns: Relinquished by, Employee#, Date, Time, Received by, Employee #, Date, Time

Sample Receiving (Internal Use Only) TEMP (°C): Initial: Correct pH: Yes No Preservative Lot#: Date/Time/Init for preservative:

Checklist grid for METALS (all), Nutrients, MISC., Gypsum, Coal, Flyash, and Oil. Includes sub-sections like Ultimate, Other Tests, NPDES, and Used Oil.

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section) Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



**SAMPLE RECEIPT & REVIEW FORM**

Client: SCOOP SDG/AR/COC/Work Order: 613959/613963  
 Received By: JW Date Received: 3/10/23  
 Carrier and Tracking Number: \_\_\_\_\_  
 FedEx Express    FedEx Ground    UPS    Field Services    Courier    Other

Suspected Hazard Information    Yes    No    \*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous?        Hazard Class Shipped: \_\_\_\_\_ UN#: \_\_\_\_\_  
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes \_\_\_ No \_\_\_

B) Did the client designate the samples are to be received as radioactive?        COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive?        Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): 0 CPM mR/Hr  
 Classified as: Rad 1    Rad 2    Rad 3

D) Did the client designate samples are hazardous?        COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards?        If D or E is yes, select Hazards below.  
 PCB's    Flammable    Foreign Soil    RCRA    Asbestos    Beryllium    Other: \_\_\_\_\_

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC    COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs    Dry ice    None    Other: _____ *all temperatures are recorded in Celsius    TEMP: <u>2</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IRI-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: _____ If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers    No times on containers    COC missing info    Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC    Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished    Other (describe)

Comments (Use Continuation Form if needed): \_\_\_\_\_

PM (or PMA) review: Initials JW Date 3/13/23 Page 1 of 1

## Jordan Melton

---

**From:** Linda Williams <linda.williams@santeecooper.com>  
**Sent:** Tuesday, March 14, 2023 8:08 AM  
**To:** Jordan Melton  
**Cc:** Jeanette Gilmetti; Courtney Ames Watkins; Sherri Brown  
**Subject:** RE: Sample ID verification for "AF56429: WAP-28" 613963

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hello Jordan,

The sample should be WAP-28 id AF56429.

Thank you,

*Linda Williams*

Manager Analytical Services  
843-761-8000 x5184



---

**From:** Jeanette Gilmetti <jeanette.gilmetti@santeecooper.com>  
**Sent:** Tuesday, March 14, 2023 7:21 AM  
**To:** Linda Williams <linda.williams@santeecooper.com>; Courtney Ames Watkins <COURTNEY.AMESWATKINS@santeecooper.com>  
**Subject:** FW: Sample ID verification for "AF56429: WAP-28" 613963

Please see note below and let me know if this has been resolved or if I can assist.

**Jeanette Gilmetti**



Environmental Resources  
(843) 761-8000 ext. 4564  
[jeanette.gilmetti@santeecooper.com](mailto:jeanette.gilmetti@santeecooper.com)

---

**From:** Jordan Melton <Jordan.Melton@gel.com>  
**Sent:** Monday, March 13, 2023 12:12 PM  
**To:** Sherri Brown <sherri.brown@santeecooper.com>  
**Cc:** Jeanette Gilmetti <jeanette.gilmetti@santeecooper.com>  
**Subject:** [EXTERNAL SENDER] Sample ID verification for "AF56429: WAP-28" 613963

---

Good afternoon,

GEL received ground water samples for Rad 226 and Rad 228 analysis. Sample AF56429 was received with the ID "WAP-8" on the container. The chain of custody lists the sample ID as "WAP-28". Please confirm which sample ID should be used.

Thank you,

**Jordan Melton**

**Project Manager Assistant**



2040 Savage Road, Charleston, SC 29407 | P.O. Box 30712, Charleston, SC 29417

Office Main: 843.556.8171 | Office Fax: 843.769.7383

E-Mail: [Jordan.Melton@gel.com](mailto:Jordan.Melton@gel.com) | Website: [www.gel.com](http://www.gel.com)

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Do not click on any links or open any attachments unless you are confident it is from a trusted source.

If you have questions, please call the Technology Service Desk at Ext. 7777.

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**List of current GEL Certifications as of 11 April 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 3/28/2023 6:24:21 PM

## JOB DESCRIPTION

125915/JM02.09.G01.1/36500

## JOB NUMBER

680-232195-1

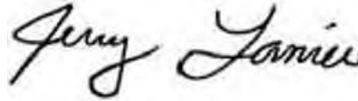
# Eurofins Savannah

## Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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3/28/2023 6:24:21 PM

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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

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**Job ID: 680-232195-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

---

**Job Narrative  
680-232195-1**

**Receipt**

The samples were received on 3/17/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.3°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

- 1
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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-232195-1	AF56421	Water	03/01/23 14:41	03/17/23 10:30
680-232195-2	AF56424	Water	03/01/23 13:37	03/17/23 10:30
680-232195-3	AF56439	Water	03/01/23 10:22	03/17/23 10:30
680-232195-4	AF56441	Water	03/01/23 11:45	03/17/23 10:30
680-232195-5	AF56414	Water	03/02/23 12:46	03/17/23 10:30
680-232195-6	AF56423	Water	03/02/23 09:52	03/17/23 10:30
680-232195-7	AF56428	Water	03/02/23 10:56	03/17/23 10:30
680-232195-8	AF56419	Water	03/07/23 14:51	03/17/23 10:30
680-232195-9	AF56425	Water	03/07/23 12:49	03/17/23 10:30
680-232195-10	AF56426	Water	03/07/23 10:22	03/17/23 10:30
680-232195-11	AF56427	Water	03/07/23 10:27	03/17/23 10:30
680-232195-12	AF56408	Water	03/08/23 13:38	03/17/23 10:30
680-232195-13	AF56415	Water	03/08/23 15:13	03/17/23 10:30
680-232195-14	AF56416	Water	03/08/23 10:09	03/17/23 10:30
680-232195-15	AF56417	Water	03/08/23 10:14	03/17/23 10:30
680-232195-16	AF56429	Water	03/08/23 12:12	03/17/23 10:30
680-232195-17	AF56394	Water	02/14/23 12:33	03/17/23 10:30
680-232195-18	AF56331	Water	02/14/23 13:51	03/17/23 10:30
680-232195-19	AF56332	Water	02/14/23 15:22	03/17/23 10:30
680-232195-20	AF56395	Water	02/15/23 11:36	03/17/23 10:30
680-232195-21	AF56396	Water	02/15/23 13:21	03/17/23 10:30
680-232195-22	AF56397	Water	02/16/23 10:53	03/17/23 10:30
680-232195-23	AF56400	Water	02/16/23 12:55	03/17/23 10:30
680-232195-24	AF56442	Water	02/16/23 14:07	03/17/23 10:30
680-232195-25	AF56443	Water	02/16/23 14:12	03/17/23 10:30
680-232195-26	AF56402	Water	02/27/23 12:47	03/17/23 10:30
680-232195-27	AF56403	Water	02/27/23 09:57	03/17/23 10:30
680-232195-28	AF56404	Water	02/27/23 10:02	03/17/23 10:30
680-232195-29	AF56434	Water	02/27/23 15:44	03/17/23 10:30
680-232195-30	AF56433	Water	02/28/23 12:58	03/17/23 10:30
680-232195-31	AF56435	Water	02/28/23 11:44	03/17/23 10:30
680-232195-32	AF56436	Water	02/28/23 10:19	03/17/23 10:30
680-232195-33	AF56437	Water	02/28/23 10:24	03/17/23 10:30
680-232195-34	AF56438	Water	02/28/23 14:31	03/17/23 10:30
680-232195-35	AF56409	Water	03/06/23 12:14	03/17/23 10:30
680-232195-36	AF56410	Water	03/06/23 12:19	03/17/23 10:30
680-232195-37	AF56411	Water	03/06/23 11:08	03/17/23 10:30
680-232195-38	AF56412	Water	03/06/23 15:15	03/17/23 10:30
680-232195-39	AF56413	Water	03/06/23 13:41	03/17/23 10:30
680-232195-40	AF56430	Water	03/06/23 10:10	03/17/23 10:30
680-232195-41	AF56406	Water	03/09/23 10:29	03/17/23 10:30
680-232195-42	AF56407	Water	03/09/23 10:34	03/17/23 10:30
680-232195-43	AF56418	Water	03/09/23 12:07	03/17/23 10:30
680-232195-44	AF56422	Water	03/09/23 13:19	03/17/23 10:30



# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SL
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3010A	Preparation, Total Metals	SW846	EET SL

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Client Sample ID: AF56421

## Lab Sample ID: 680-232195-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	99400		500		ug/L	1		6010D	Dissolved
Iron	3540		100		ug/L	1		6010D	Dissolved
Magnesium	14600		500		ug/L	1		6010D	Dissolved
Potassium	9160		1000		ug/L	1		6010D	Dissolved
Sodium	19200		2000		ug/L	1		6010D	Dissolved
Aluminum	127		100		ug/L	1		6020B	Dissolved
Barium	33.3		5.00		ug/L	1		6020B	Dissolved

## Client Sample ID: AF56424

## Lab Sample ID: 680-232195-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	175000		500		ug/L	1		6010D	Dissolved
Iron	269		100		ug/L	1		6010D	Dissolved
Magnesium	13100		500		ug/L	1		6010D	Dissolved
Potassium	5550		1000		ug/L	1		6010D	Dissolved
Sodium	34700		2000		ug/L	1		6010D	Dissolved
Barium	9.67		5.00		ug/L	1		6020B	Dissolved

## Client Sample ID: AF56439

## Lab Sample ID: 680-232195-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	126000		500		ug/L	1		6010D	Dissolved
Iron	7900		100		ug/L	1		6010D	Dissolved
Magnesium	13000		500		ug/L	1		6010D	Dissolved
Potassium	6990		1000		ug/L	1		6010D	Dissolved
Sodium	35800		2000		ug/L	1		6010D	Dissolved
Aluminum	850		100		ug/L	1		6020B	Dissolved
Arsenic	40.1		3.00		ug/L	1		6020B	Dissolved
Barium	90.0		5.00		ug/L	1		6020B	Dissolved
Cobalt	6.59		0.500		ug/L	1		6020B	Dissolved
Zinc	43.1		20.0		ug/L	1		6020B	Dissolved

## Client Sample ID: AF56441

## Lab Sample ID: 680-232195-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	140		50.0		ug/L	1		6010D	Dissolved
Calcium	174000		500		ug/L	1		6010D	Dissolved
Iron	4580		100		ug/L	1		6010D	Dissolved
Magnesium	9730		500		ug/L	1		6010D	Dissolved
Potassium	5050		1000		ug/L	1		6010D	Dissolved
Sodium	22900		2000		ug/L	1		6010D	Dissolved
Arsenic	177		3.00		ug/L	1		6020B	Dissolved
Barium	76.2		5.00		ug/L	1		6020B	Dissolved

## Client Sample ID: AF56414

## Lab Sample ID: 680-232195-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	63.0		50.0		ug/L	1		6010D	Dissolved
Calcium	443000		500		ug/L	1		6010D	Dissolved
Iron	21800		100		ug/L	1		6010D	Dissolved
Magnesium	43600		500		ug/L	1		6010D	Dissolved
Potassium	6180		1000		ug/L	1		6010D	Dissolved
Sodium	94600		2000		ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56414 (Continued)

Lab Sample ID: 680-232195-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	367		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56423

Lab Sample ID: 680-232195-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	95.7		50.0		ug/L	1		6010D	Dissolved
Calcium	382000		500		ug/L	1		6010D	Dissolved
Iron	14000		100		ug/L	1		6010D	Dissolved
Magnesium	46400		500		ug/L	1		6010D	Dissolved
Potassium	11800		1000		ug/L	1		6010D	Dissolved
Sodium	85500		2000		ug/L	1		6010D	Dissolved
Arsenic	307		3.00		ug/L	1		6020B	Dissolved
Barium	214		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56428

Lab Sample ID: 680-232195-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	95200		500		ug/L	1		6010D	Dissolved
Iron	76100		100		ug/L	1		6010D	Dissolved
Magnesium	21000		500		ug/L	1		6010D	Dissolved
Potassium	9830		1000		ug/L	1		6010D	Dissolved
Sodium	35400		2000		ug/L	1		6010D	Dissolved
Arsenic	75.4		3.00		ug/L	1		6020B	Dissolved
Barium	108		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.610		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56419

Lab Sample ID: 680-232195-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	223		50.0		ug/L	1		6010D	Dissolved
Calcium	535000		500		ug/L	1		6010D	Dissolved
Iron	1430		100		ug/L	1		6010D	Dissolved
Magnesium	78800		500		ug/L	1		6010D	Dissolved
Molybdenum	55.9		10.0		ug/L	1		6010D	Dissolved
Potassium	19700		1000		ug/L	1		6010D	Dissolved
Sodium	41700		2000		ug/L	1		6010D	Dissolved
Arsenic	103		3.00		ug/L	1		6020B	Dissolved
Barium	71.5		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.26		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56425

Lab Sample ID: 680-232195-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	247000		500		ug/L	1		6010D	Dissolved
Iron	1290		100		ug/L	1		6010D	Dissolved
Magnesium	35800		500		ug/L	1		6010D	Dissolved
Molybdenum	19.3		10.0		ug/L	1		6010D	Dissolved
Potassium	13000		1000		ug/L	1		6010D	Dissolved
Sodium	68500		2000		ug/L	1		6010D	Dissolved
Barium	42.8		5.00		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56426

### Lab Sample ID: 680-232195-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	192000		500		ug/L	1		6010D	Dissolved
Iron	3230		100		ug/L	1		6010D	Dissolved
Magnesium	18700		500		ug/L	1		6010D	Dissolved
Potassium	11200		1000		ug/L	1		6010D	Dissolved
Sodium	127000		2000		ug/L	1		6010D	Dissolved
Aluminum	149		100		ug/L	1		6020B	Dissolved
Barium	35.1		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56427

### Lab Sample ID: 680-232195-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	382000		500		ug/L	1		6010D	Dissolved
Iron	41600		100		ug/L	1		6010D	Dissolved
Magnesium	27600		500		ug/L	1		6010D	Dissolved
Potassium	2620		1000		ug/L	1		6010D	Dissolved
Sodium	121000		2000		ug/L	1		6010D	Dissolved
Aluminum	156		100		ug/L	1		6020B	Dissolved
Barium	35.8		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56408

### Lab Sample ID: 680-232195-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	21000		500		ug/L	1		6010D	Dissolved
Iron	256		100		ug/L	1		6010D	Dissolved
Magnesium	1650		500		ug/L	1		6010D	Dissolved
Sodium	4330		2000		ug/L	1		6010D	Dissolved
Barium	251		5.00		ug/L	1		6020B	Dissolved
Chromium	40.5		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.575		0.500		ug/L	1		6020B	Dissolved
Zinc	53.9		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56415

### Lab Sample ID: 680-232195-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19600		500		ug/L	1		6010D	Dissolved
Iron	213		100		ug/L	1		6010D	Dissolved
Magnesium	1630		500		ug/L	1		6010D	Dissolved
Sodium	4310		2000		ug/L	1		6010D	Dissolved
Barium	76.3		5.00		ug/L	1		6020B	Dissolved
Zinc	30.6		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56416

### Lab Sample ID: 680-232195-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	66800		500		ug/L	1		6010D	Dissolved
Iron	891		100		ug/L	1		6010D	Dissolved
Magnesium	2920		500		ug/L	1		6010D	Dissolved
Potassium	2190		1000		ug/L	1		6010D	Dissolved
Sodium	11100		2000		ug/L	1		6010D	Dissolved
Arsenic	74.8		3.00		ug/L	1		6020B	Dissolved
Barium	42.0		5.00		ug/L	1		6020B	Dissolved
Zinc	182		20.0		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56417

### Lab Sample ID: 680-232195-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	270000		500		ug/L	1		6010D	Dissolved
Iron	1940		100		ug/L	1		6010D	Dissolved
Magnesium	38900		500		ug/L	1		6010D	Dissolved
Molybdenum	21.2		10.0		ug/L	1		6010D	Dissolved
Potassium	14100		1000		ug/L	1		6010D	Dissolved
Sodium	72300		2000		ug/L	1		6010D	Dissolved
Arsenic	84.0		3.00		ug/L	1		6020B	Dissolved
Barium	50.0		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56429

### Lab Sample ID: 680-232195-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74200		500		ug/L	1		6010D	Dissolved
Iron	92900		100		ug/L	1		6010D	Dissolved
Magnesium	26000		500		ug/L	1		6010D	Dissolved
Sodium	82900		2000		ug/L	1		6010D	Dissolved
Aluminum	2310		100		ug/L	1		6020B	Dissolved
Barium	245		5.00		ug/L	1		6020B	Dissolved
Beryllium	0.965		0.500		ug/L	1		6020B	Dissolved
Cobalt	19.1		0.500		ug/L	1		6020B	Dissolved
Lead	2.54		2.50		ug/L	1		6020B	Dissolved
Nickel	5.89		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56394

### Lab Sample ID: 680-232195-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	11200		500		ug/L	1		6010D	Dissolved
Iron	3120		100		ug/L	1		6010D	Dissolved
Magnesium	1020		500		ug/L	1		6010D	Dissolved
Sodium	5650		2000		ug/L	1		6010D	Dissolved
Aluminum	1310		100		ug/L	1		6020B	Dissolved
Arsenic	5.22		3.00		ug/L	1		6020B	Dissolved
Barium	76.1		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.765		0.500		ug/L	1		6020B	Dissolved
Zinc	23.6		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56331

### Lab Sample ID: 680-232195-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	3560		500		ug/L	1		6010D	Dissolved
Magnesium	898		500		ug/L	1		6010D	Dissolved
Sodium	2720		2000		ug/L	1		6010D	Dissolved
Aluminum	793		100		ug/L	1		6020B	Dissolved
Barium	30.1		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.58		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56332

### Lab Sample ID: 680-232195-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	87900		500		ug/L	1		6010D	Dissolved
Iron	5240		100		ug/L	1		6010D	Dissolved
Magnesium	2750		500		ug/L	1		6010D	Dissolved
Potassium	2150		1000		ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56332 (Continued)

Lab Sample ID: 680-232195-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	11700		2000		ug/L	1		6010D	Dissolved
Aluminum	1300		100		ug/L	1		6020B	Dissolved
Barium	102		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56395

Lab Sample ID: 680-232195-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	355000		500		ug/L	1		6010D	Dissolved
Iron	3970		100		ug/L	1		6010D	Dissolved
Magnesium	43700		500		ug/L	1		6010D	Dissolved
Potassium	9610		1000		ug/L	1		6010D	Dissolved
Sodium	71800		2000		ug/L	1		6010D	Dissolved
Aluminum	194		100		ug/L	1		6020B	Dissolved
Arsenic	11.5		3.00		ug/L	1		6020B	Dissolved
Barium	151		5.00		ug/L	1		6020B	Dissolved
Beryllium	1.46		0.500		ug/L	1		6020B	Dissolved
Cobalt	18.5		0.500		ug/L	1		6020B	Dissolved
Nickel	10.1		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56396

Lab Sample ID: 680-232195-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	226000		500		ug/L	1		6010D	Dissolved
Iron	23400		100		ug/L	1		6010D	Dissolved
Magnesium	14600		500		ug/L	1		6010D	Dissolved
Potassium	2050		1000		ug/L	1		6010D	Dissolved
Sodium	42400		2000		ug/L	1		6010D	Dissolved
Barium	149		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.565		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56397

Lab Sample ID: 680-232195-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	54900		500		ug/L	1		6010D	Dissolved
Iron	102		100		ug/L	1		6010D	Dissolved
Magnesium	3940		500		ug/L	1		6010D	Dissolved
Potassium	1830		1000		ug/L	1		6010D	Dissolved
Sodium	17100		2000		ug/L	1		6010D	Dissolved
Barium	34.2		5.00		ug/L	1		6020B	Dissolved
Zinc	114		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56400

Lab Sample ID: 680-232195-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	264000		500		ug/L	1		6010D	Dissolved
Iron	783		100		ug/L	1		6010D	Dissolved
Magnesium	3930		500		ug/L	1		6010D	Dissolved
Potassium	2390		1000		ug/L	1		6010D	Dissolved
Sodium	13900		2000		ug/L	1		6010D	Dissolved
Barium	46.4		5.00		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Client Sample ID: AF56442

Lab Sample ID: 680-232195-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	162000		500		ug/L	1		6010D	Dissolved
Iron	286		100		ug/L	1		6010D	Dissolved
Magnesium	7610		500		ug/L	1		6010D	Dissolved
Potassium	4220		1000		ug/L	1		6010D	Dissolved
Sodium	21500		2000		ug/L	1		6010D	Dissolved
Arsenic	3.62		3.00		ug/L	1		6020B	Dissolved
Barium	34.7		5.00		ug/L	1		6020B	Dissolved

Client Sample ID: AF56443

Lab Sample ID: 680-232195-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	166000		500		ug/L	1		6010D	Dissolved
Iron	359		100		ug/L	1		6010D	Dissolved
Magnesium	7850		500		ug/L	1		6010D	Dissolved
Potassium	4220		1000		ug/L	1		6010D	Dissolved
Sodium	21500		2000		ug/L	1		6010D	Dissolved
Aluminum	239		100		ug/L	1		6020B	Dissolved
Arsenic	4.54		3.00		ug/L	1		6020B	Dissolved
Barium	39.2		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.715		0.500		ug/L	1		6020B	Dissolved

Client Sample ID: AF56402

Lab Sample ID: 680-232195-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	199000		500		ug/L	1		6010D	Dissolved
Iron	22900		100		ug/L	1		6010D	Dissolved
Magnesium	23600		500		ug/L	1		6010D	Dissolved
Potassium	11200		1000		ug/L	1		6010D	Dissolved
Sodium	34600		2000		ug/L	1		6010D	Dissolved
Aluminum	327		100		ug/L	1		6020B	Dissolved
Arsenic	31.0		3.00		ug/L	1		6020B	Dissolved
Barium	77.9		5.00		ug/L	1		6020B	Dissolved

Client Sample ID: AF56403

Lab Sample ID: 680-232195-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	70.2		50.0		ug/L	1		6010D	Dissolved
Calcium	645000		500		ug/L	1		6010D	Dissolved
Iron	22000		100		ug/L	1		6010D	Dissolved
Magnesium	90500		500		ug/L	1		6010D	Dissolved
Potassium	28700		1000		ug/L	1		6010D	Dissolved
Sodium	156000		2000		ug/L	1		6010D	Dissolved
Barium	318		5.00		ug/L	1		6020B	Dissolved

Client Sample ID: AF56404

Lab Sample ID: 680-232195-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	64.9		50.0		ug/L	1		6010D	Dissolved
Calcium	653000		500		ug/L	1		6010D	Dissolved
Iron	22200		100		ug/L	1		6010D	Dissolved
Magnesium	91700		500		ug/L	1		6010D	Dissolved
Potassium	28600		1000		ug/L	1		6010D	Dissolved
Sodium	158000		2000		ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56404 (Continued)

Lab Sample ID: 680-232195-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	313		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56434

Lab Sample ID: 680-232195-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60500		500		ug/L	1		6010D	Dissolved
Iron	2930		100		ug/L	1		6010D	Dissolved
Magnesium	1910		500		ug/L	1		6010D	Dissolved
Sodium	4740		2000		ug/L	1		6010D	Dissolved
Aluminum	929		100		ug/L	1		6020B	Dissolved
Barium	38.9		5.00		ug/L	1		6020B	Dissolved
Cobalt	2.41		0.500		ug/L	1		6020B	Dissolved
Zinc	68.5		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56433

Lab Sample ID: 680-232195-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	448000		500		ug/L	1		6010D	Dissolved
Iron	16300		100		ug/L	1		6010D	Dissolved
Magnesium	12900		500		ug/L	1		6010D	Dissolved
Potassium	5750		1000		ug/L	1		6010D	Dissolved
Sodium	10800		2000		ug/L	1		6010D	Dissolved
Barium	53.8		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56435

Lab Sample ID: 680-232195-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	21900		500		ug/L	1		6010D	Dissolved
Iron	880		100		ug/L	1		6010D	Dissolved
Magnesium	892		500		ug/L	1		6010D	Dissolved
Sodium	3260		2000		ug/L	1		6010D	Dissolved
Aluminum	3790		100		ug/L	1		6020B	Dissolved
Arsenic	8.02		3.00		ug/L	1		6020B	Dissolved
Barium	34.7		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.29		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56436

Lab Sample ID: 680-232195-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92200		500		ug/L	1		6010D	Dissolved
Iron	771		100		ug/L	1		6010D	Dissolved
Magnesium	2500		500		ug/L	1		6010D	Dissolved
Potassium	1580		1000		ug/L	1		6010D	Dissolved
Sodium	5430		2000		ug/L	1		6010D	Dissolved
Barium	37.2		5.00		ug/L	1		6020B	Dissolved
Zinc	42.9		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56437

Lab Sample ID: 680-232195-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	93200		500		ug/L	1		6010D	Dissolved
Iron	1200		100		ug/L	1		6010D	Dissolved
Magnesium	1750		500		ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56437 (Continued)

Lab Sample ID: 680-232195-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1260		1000		ug/L	1		6010D	Dissolved
Sodium	3590		2000		ug/L	1		6010D	Dissolved
Barium	36.8		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56438

Lab Sample ID: 680-232195-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	296000		500		ug/L	1		6010D	Dissolved
Iron	1040		100		ug/L	1		6010D	Dissolved
Magnesium	28800		500		ug/L	1		6010D	Dissolved
Potassium	6790		1000		ug/L	1		6010D	Dissolved
Sodium	18000		2000		ug/L	1		6010D	Dissolved
Barium	41.2		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56409

Lab Sample ID: 680-232195-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	118		50.0		ug/L	1		6010D	Dissolved
Calcium	1140000		5000		ug/L	10		6010D	Dissolved
Magnesium	30500		500		ug/L	1		6010D	Dissolved
Potassium	15500		1000		ug/L	1		6010D	Dissolved
Sodium	139000		2000		ug/L	1		6010D	Dissolved
Arsenic	15.2		3.00		ug/L	1		6020B	Dissolved
Barium	54.6		5.00		ug/L	1		6020B	Dissolved
Chromium	13.2		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56410

Lab Sample ID: 680-232195-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	109		50.0		ug/L	1		6010D	Dissolved
Calcium	1160000		5000		ug/L	10		6010D	Dissolved
Iron	113		100		ug/L	1		6010D	Dissolved
Magnesium	30800		500		ug/L	1		6010D	Dissolved
Potassium	15700		1000		ug/L	1		6010D	Dissolved
Sodium	140000		2000		ug/L	1		6010D	Dissolved
Arsenic	13.0		3.00		ug/L	1		6020B	Dissolved
Barium	56.5		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56411

Lab Sample ID: 680-232195-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	92.4		50.0		ug/L	1		6010D	Dissolved
Calcium	849000		5000		ug/L	10		6010D	Dissolved
Magnesium	42600		500		ug/L	1		6010D	Dissolved
Potassium	13800		1000		ug/L	1		6010D	Dissolved
Sodium	126000		2000		ug/L	1		6010D	Dissolved
Arsenic	7.06		3.00		ug/L	1		6020B	Dissolved
Barium	108		5.00		ug/L	1		6020B	Dissolved
Zinc	35.7		20.0		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

### Client Sample ID: AF56412

### Lab Sample ID: 680-232195-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	64.6		50.0		ug/L	1		6010D	Dissolved
Calcium	698000		500		ug/L	1		6010D	Dissolved
Iron	1420		100		ug/L	1		6010D	Dissolved
Magnesium	29900		500		ug/L	1		6010D	Dissolved
Potassium	7230		1000		ug/L	1		6010D	Dissolved
Sodium	107000		2000		ug/L	1		6010D	Dissolved
Arsenic	6.71		3.00		ug/L	1		6020B	Dissolved
Barium	158		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56413

### Lab Sample ID: 680-232195-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	161000		500		ug/L	1		6010D	Dissolved
Iron	7850		100		ug/L	1		6010D	Dissolved
Magnesium	11100		500		ug/L	1		6010D	Dissolved
Potassium	4680		1000		ug/L	1		6010D	Dissolved
Sodium	71500		2000		ug/L	1		6010D	Dissolved
Barium	85.5		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.955		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56430

### Lab Sample ID: 680-232195-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	448000		500		ug/L	1		6010D	Dissolved
Iron	32200		100		ug/L	1		6010D	Dissolved
Magnesium	72300		500		ug/L	1		6010D	Dissolved
Potassium	6530		1000		ug/L	1		6010D	Dissolved
Sodium	87300		2000		ug/L	1		6010D	Dissolved
Barium	48.0		5.00		ug/L	1		6020B	Dissolved
Cobalt	6.15		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56406

### Lab Sample ID: 680-232195-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	194000		500		ug/L	1		6010D	Dissolved
Iron	1380		100		ug/L	1		6010D	Dissolved
Magnesium	17000		500		ug/L	1		6010D	Dissolved
Potassium	4650		1000		ug/L	1		6010D	Dissolved
Sodium	43100		2000		ug/L	1		6010D	Dissolved
Aluminum	1740		100		ug/L	1		6020B	Dissolved
Barium	38.2		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.83		0.500		ug/L	1		6020B	Dissolved
Zinc	40.6		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56407

### Lab Sample ID: 680-232195-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	210000		500		ug/L	1		6010D	Dissolved
Iron	1430		100		ug/L	1		6010D	Dissolved
Magnesium	18500		500		ug/L	1		6010D	Dissolved
Potassium	5200		1000		ug/L	1		6010D	Dissolved
Sodium	46500		2000		ug/L	1		6010D	Dissolved
Aluminum	1590		100		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Client Sample ID: AF56407 (Continued)

Lab Sample ID: 680-232195-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	38.7		5.00		ug/L	1		6020B	Dissolved
Cobalt	2.01		0.500		ug/L	1		6020B	Dissolved
Zinc	28.0		20.0		ug/L	1		6020B	Dissolved

## Client Sample ID: AF56418

Lab Sample ID: 680-232195-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	87.9		50.0		ug/L	1		6010D	Dissolved
Calcium	95500		500		ug/L	1		6010D	Dissolved
Iron	788		100		ug/L	1		6010D	Dissolved
Magnesium	7530		500		ug/L	1		6010D	Dissolved
Molybdenum	92.0		10.0		ug/L	1		6010D	Dissolved
Potassium	7660		1000		ug/L	1		6010D	Dissolved
Sodium	25300		2000		ug/L	1		6010D	Dissolved
Aluminum	130		100		ug/L	1		6020B	Dissolved
Arsenic	229		3.00		ug/L	1		6020B	Dissolved
Barium	133		5.00		ug/L	1		6020B	Dissolved
Cobalt	2.16		0.500		ug/L	1		6020B	Dissolved

## Client Sample ID: AF56422

Lab Sample ID: 680-232195-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	248000		500		ug/L	1		6010D	Dissolved
Iron	6050		100		ug/L	1		6010D	Dissolved
Magnesium	8900		500		ug/L	1		6010D	Dissolved
Potassium	3850		1000		ug/L	1		6010D	Dissolved
Sodium	73300		2000		ug/L	1		6010D	Dissolved
Arsenic	3.54		3.00		ug/L	1		6020B	Dissolved
Barium	104		5.00		ug/L	1		6020B	Dissolved
Zinc	48.0		20.0		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56421**

**Lab Sample ID: 680-232195-1**

Date Collected: 03/01/23 14:41

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:16	1
<b>Calcium</b>	<b>99400</b>		500		ug/L		03/24/23 14:44	03/24/23 19:56	1
<b>Iron</b>	<b>3540</b>		100		ug/L		03/24/23 14:44	03/24/23 19:56	1
<b>Magnesium</b>	<b>14600</b>		500		ug/L		03/24/23 14:44	03/24/23 19:56	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 19:56	1
<b>Potassium</b>	<b>9160</b>		1000		ug/L		03/24/23 14:44	03/24/23 19:56	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 19:56	1
<b>Sodium</b>	<b>19200</b>		2000		ug/L		03/24/23 14:44	03/24/23 19:56	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>127</b>		100		ug/L		03/20/23 07:40	03/21/23 08:04	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
<b>Barium</b>	<b>33.3</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:04	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:04	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:04	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:04	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:04	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56424**

**Lab Sample ID: 680-232195-2**

Date Collected: 03/01/23 13:37

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:20	1
<b>Calcium</b>	<b>175000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:00	1
<b>Iron</b>	<b>269</b>		100		ug/L		03/24/23 14:44	03/24/23 20:00	1
<b>Magnesium</b>	<b>13100</b>		500		ug/L		03/24/23 14:44	03/24/23 20:00	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:00	1
<b>Potassium</b>	<b>5550</b>		1000		ug/L		03/24/23 14:44	03/24/23 20:00	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:00	1
<b>Sodium</b>	<b>34700</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:00	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:08	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
<b>Barium</b>	<b>9.67</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:08	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:08	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:08	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:08	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:08	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56439**

**Lab Sample ID: 680-232195-3**

Date Collected: 03/01/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:25	1
<b>Calcium</b>	<b>126000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:03	1
<b>Iron</b>	<b>7900</b>		100		ug/L		03/24/23 14:44	03/24/23 20:03	1
<b>Magnesium</b>	<b>13000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:03	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:03	1
<b>Potassium</b>	<b>6990</b>		1000		ug/L		03/24/23 14:44	03/24/23 20:03	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:03	1
<b>Sodium</b>	<b>35800</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:03	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>850</b>		100		ug/L		03/20/23 07:40	03/21/23 08:12	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
<b>Arsenic</b>	<b>40.1</b>		3.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
<b>Barium</b>	<b>90.0</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:12	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:12	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
<b>Cobalt</b>	<b>6.59</b>		0.500		ug/L		03/20/23 07:40	03/21/23 08:12	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:12	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
<b>Zinc</b>	<b>43.1</b>		20.0		ug/L		03/20/23 07:40	03/21/23 08:12	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56441**

**Lab Sample ID: 680-232195-4**

Date Collected: 03/01/23 11:45

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	140		50.0		ug/L		03/23/23 14:17	03/24/23 20:30	1
Calcium	174000		500		ug/L		03/24/23 14:44	03/24/23 20:06	1
Iron	4580		100		ug/L		03/24/23 14:44	03/24/23 20:06	1
Magnesium	9730		500		ug/L		03/24/23 14:44	03/24/23 20:06	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:06	1
Potassium	5050		1000		ug/L		03/24/23 14:44	03/24/23 20:06	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:06	1
Sodium	22900		2000		ug/L		03/24/23 14:44	03/24/23 20:06	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:16	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Arsenic	177		3.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Barium	76.2		5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:16	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:16	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:16	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:16	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:16	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56414**

**Lab Sample ID: 680-232195-5**

Date Collected: 03/02/23 12:46

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	63.0		50.0		ug/L		03/23/23 14:17	03/24/23 20:34	1
Calcium	443000		500		ug/L		03/24/23 14:44	03/24/23 20:09	1
Iron	21800		100		ug/L		03/24/23 14:44	03/24/23 20:09	1
Magnesium	43600		500		ug/L		03/24/23 14:44	03/24/23 20:09	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:09	1
Potassium	6180		1000		ug/L		03/24/23 14:44	03/24/23 20:09	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:09	1
Sodium	94600		2000		ug/L		03/24/23 14:44	03/24/23 20:09	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:20	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Barium	367		5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:20	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:20	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:20	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:20	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:20	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56423**

**Lab Sample ID: 680-232195-6**

Date Collected: 03/02/23 09:52

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	95.7		50.0		ug/L		03/23/23 14:17	03/24/23 20:39	1
Calcium	382000		500		ug/L		03/24/23 14:44	03/24/23 20:19	1
Iron	14000		100		ug/L		03/24/23 14:44	03/24/23 20:19	1
Magnesium	46400		500		ug/L		03/24/23 14:44	03/24/23 20:19	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:19	1
Potassium	11800		1000		ug/L		03/24/23 14:44	03/24/23 20:19	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:19	1
Sodium	85500		2000		ug/L		03/24/23 14:44	03/24/23 20:19	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:24	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Arsenic	307		3.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Barium	214		5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:24	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:24	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:24	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:24	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:24	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232195-7**

Date Collected: 03/02/23 10:56

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:44	1
<b>Calcium</b>	<b>95200</b>		500		ug/L		03/24/23 14:44	03/24/23 20:22	1
<b>Iron</b>	<b>76100</b>		100		ug/L		03/24/23 14:44	03/24/23 20:22	1
<b>Magnesium</b>	<b>21000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:22	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:22	1
<b>Potassium</b>	<b>9830</b>		1000		ug/L		03/24/23 14:44	03/24/23 20:22	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:22	1
<b>Sodium</b>	<b>35400</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:22	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:28	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
<b>Arsenic</b>	<b>75.4</b>		3.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
<b>Barium</b>	<b>108</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:28	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:28	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
<b>Cobalt</b>	<b>0.610</b>		0.500		ug/L		03/20/23 07:40	03/21/23 08:28	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:28	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:28	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56419**

**Lab Sample ID: 680-232195-8**

Date Collected: 03/07/23 14:51

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	223		50.0		ug/L		03/23/23 14:17	03/24/23 20:48	1
Calcium	535000		500		ug/L		03/24/23 14:44	03/24/23 20:25	1
Iron	1430		100		ug/L		03/24/23 14:44	03/24/23 20:25	1
Magnesium	78800		500		ug/L		03/24/23 14:44	03/24/23 20:25	1
Molybdenum	55.9		10.0		ug/L		03/24/23 14:44	03/24/23 20:25	1
Potassium	19700		1000		ug/L		03/24/23 14:44	03/24/23 20:25	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:25	1
Sodium	41700		2000		ug/L		03/24/23 14:44	03/24/23 20:25	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:33	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Arsenic	103		3.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Barium	71.5		5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:33	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:33	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Cobalt	1.26		0.500		ug/L		03/20/23 07:40	03/21/23 08:33	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:33	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:33	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56425**

**Lab Sample ID: 680-232195-9**

Date Collected: 03/07/23 12:49

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:53	1
<b>Calcium</b>	<b>247000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:29	1
<b>Iron</b>	<b>1290</b>		100		ug/L		03/24/23 14:44	03/24/23 20:29	1
<b>Magnesium</b>	<b>35800</b>		500		ug/L		03/24/23 14:44	03/24/23 20:29	1
<b>Molybdenum</b>	<b>19.3</b>		10.0		ug/L		03/24/23 14:44	03/24/23 20:29	1
<b>Potassium</b>	<b>13000</b>		1000		ug/L		03/24/23 14:44	03/24/23 20:29	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:29	1
<b>Sodium</b>	<b>68500</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:29	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:37	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
<b>Barium</b>	<b>42.8</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:37	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:37	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:37	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:37	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:37	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56426**

**Lab Sample ID: 680-232195-10**

Date Collected: 03/07/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:12	1
Calcium	192000		500		ug/L		03/24/23 14:44	03/24/23 20:32	1
Iron	3230		100		ug/L		03/24/23 14:44	03/24/23 20:32	1
Magnesium	18700		500		ug/L		03/24/23 14:44	03/24/23 20:32	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:32	1
Potassium	11200		1000		ug/L		03/24/23 14:44	03/24/23 20:32	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:32	1
Sodium	127000		2000		ug/L		03/24/23 14:44	03/24/23 20:32	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	149		100		ug/L		03/20/23 07:40	03/21/23 08:41	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Barium	35.1		5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:41	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:41	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:41	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:41	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:41	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56427**

**Lab Sample ID: 680-232195-11**

Date Collected: 03/07/23 10:27

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:16	1
<b>Calcium</b>	<b>382000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:35	1
<b>Iron</b>	<b>41600</b>		100		ug/L		03/24/23 14:44	03/24/23 20:35	1
<b>Magnesium</b>	<b>27600</b>		500		ug/L		03/24/23 14:44	03/24/23 20:35	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:35	1
<b>Potassium</b>	<b>2620</b>		1000		ug/L		03/24/23 14:44	03/24/23 20:35	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:35	1
<b>Sodium</b>	<b>121000</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:35	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>156</b>		100		ug/L		03/20/23 07:40	03/21/23 08:53	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
<b>Barium</b>	<b>35.8</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:53	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:53	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:53	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:53	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:53	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56408**

**Lab Sample ID: 680-232195-12**

Date Collected: 03/08/23 13:38

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:21	1
<b>Calcium</b>	<b>21000</b>		500		ug/L		03/24/23 14:44	03/24/23 20:38	1
<b>Iron</b>	<b>256</b>		100		ug/L		03/24/23 14:44	03/24/23 20:38	1
<b>Magnesium</b>	<b>1650</b>		500		ug/L		03/24/23 14:44	03/24/23 20:38	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:38	1
Potassium	1000	U	1000		ug/L		03/24/23 14:44	03/24/23 20:38	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:38	1
<b>Sodium</b>	<b>4330</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:38	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:57	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
<b>Barium</b>	<b>251</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:57	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:57	1
<b>Chromium</b>	<b>40.5</b>		5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
<b>Cobalt</b>	<b>0.575</b>		0.500		ug/L		03/20/23 07:40	03/21/23 08:57	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:57	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
<b>Zinc</b>	<b>53.9</b>		20.0		ug/L		03/20/23 07:40	03/21/23 08:57	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56415**

**Lab Sample ID: 680-232195-13**

Date Collected: 03/08/23 15:13

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:26	1
<b>Calcium</b>	<b>19600</b>		500		ug/L		03/24/23 14:44	03/24/23 20:42	1
<b>Iron</b>	<b>213</b>		100		ug/L		03/24/23 14:44	03/24/23 20:42	1
<b>Magnesium</b>	<b>1630</b>		500		ug/L		03/24/23 14:44	03/24/23 20:42	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:42	1
Potassium	1000	U	1000		ug/L		03/24/23 14:44	03/24/23 20:42	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:42	1
<b>Sodium</b>	<b>4310</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:42	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 09:01	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
<b>Barium</b>	<b>76.3</b>		5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:01	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:01	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:01	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 09:01	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
<b>Zinc</b>	<b>30.6</b>		20.0		ug/L		03/20/23 07:40	03/21/23 09:01	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56416**

**Lab Sample ID: 680-232195-14**

Date Collected: 03/08/23 10:09

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:31	1
<b>Calcium</b>	<b>66800</b>		500		ug/L		03/24/23 14:44	03/24/23 20:45	1
<b>Iron</b>	<b>891</b>		100		ug/L		03/24/23 14:44	03/24/23 20:45	1
<b>Magnesium</b>	<b>2920</b>		500		ug/L		03/24/23 14:44	03/24/23 20:45	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:45	1
<b>Potassium</b>	<b>2190</b>		1000		ug/L		03/24/23 14:44	03/24/23 20:45	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:45	1
<b>Sodium</b>	<b>11100</b>		2000		ug/L		03/24/23 14:44	03/24/23 20:45	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 09:05	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
<b>Arsenic</b>	<b>74.8</b>		3.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
<b>Barium</b>	<b>42.0</b>		5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:05	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:05	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:05	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 09:05	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
<b>Zinc</b>	<b>182</b>		20.0		ug/L		03/20/23 07:40	03/21/23 09:05	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56417**

**Lab Sample ID: 680-232195-15**

Date Collected: 03/08/23 10:14

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:35	1
Calcium	270000		500		ug/L		03/20/23 09:01	03/21/23 19:12	1
Iron	1940		100		ug/L		03/20/23 09:01	03/21/23 19:12	1
Magnesium	38900		500		ug/L		03/20/23 09:01	03/21/23 19:12	1
Molybdenum	21.2		10.0		ug/L		03/20/23 09:01	03/21/23 19:12	1
Potassium	14100		1000		ug/L		03/20/23 09:01	03/21/23 19:12	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:12	1
Sodium	72300		2000		ug/L		03/20/23 09:01	03/21/23 19:12	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:07	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Arsenic	84.0		3.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Barium	50.0		5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:07	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:07	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:07	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:07	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:07	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56429**

**Lab Sample ID: 680-232195-16**

Date Collected: 03/08/23 12:12

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:40	1
<b>Calcium</b>	<b>74200</b>		500		ug/L		03/20/23 09:01	03/21/23 19:22	1
<b>Iron</b>	<b>92900</b>		100		ug/L		03/20/23 09:01	03/21/23 19:22	1
<b>Magnesium</b>	<b>26000</b>		500		ug/L		03/20/23 09:01	03/21/23 19:22	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:22	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:22	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:22	1
<b>Sodium</b>	<b>82900</b>		2000		ug/L		03/20/23 09:01	03/21/23 19:22	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>2310</b>		100		ug/L		03/20/23 09:01	03/21/23 16:19	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
<b>Barium</b>	<b>245</b>		5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
<b>Beryllium</b>	<b>0.965</b>		0.500		ug/L		03/20/23 09:01	03/21/23 16:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:19	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
<b>Cobalt</b>	<b>19.1</b>		0.500		ug/L		03/20/23 09:01	03/21/23 16:19	1
<b>Lead</b>	<b>2.54</b>		2.50		ug/L		03/20/23 09:01	03/21/23 16:19	1
<b>Nickel</b>	<b>5.89</b>		5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:19	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56394**

**Lab Sample ID: 680-232195-17**

Date Collected: 02/14/23 12:33

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 21:54	1
Calcium	11200		500		ug/L		03/20/23 09:01	03/21/23 19:25	1
Iron	3120		100		ug/L		03/20/23 09:01	03/21/23 19:25	1
Magnesium	1020		500		ug/L		03/20/23 09:01	03/21/23 19:25	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:25	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:25	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:25	1
Sodium	5650		2000		ug/L		03/20/23 09:01	03/21/23 19:25	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1310		100		ug/L		03/20/23 09:01	03/21/23 16:23	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Arsenic	5.22		3.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Barium	76.1		5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:23	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:23	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Cobalt	0.765		0.500		ug/L		03/20/23 09:01	03/21/23 16:23	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:23	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Zinc	23.6		20.0		ug/L		03/20/23 09:01	03/21/23 16:23	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56331**

**Lab Sample ID: 680-232195-18**

Date Collected: 02/14/23 13:51

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:26	1
<b>Calcium</b>	<b>3560</b>		500		ug/L		03/20/23 09:01	03/21/23 19:29	1
Iron	100	U	100		ug/L		03/20/23 09:01	03/21/23 19:29	1
<b>Magnesium</b>	<b>898</b>		500		ug/L		03/20/23 09:01	03/21/23 19:29	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:29	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:29	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:29	1
<b>Sodium</b>	<b>2720</b>		2000		ug/L		03/20/23 09:01	03/21/23 19:29	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>793</b>		100		ug/L		03/20/23 09:01	03/21/23 16:27	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
<b>Barium</b>	<b>30.1</b>		5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:27	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:27	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
<b>Cobalt</b>	<b>1.58</b>		0.500		ug/L		03/20/23 09:01	03/21/23 16:27	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:27	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:27	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56332**

**Lab Sample ID: 680-232195-19**

Date Collected: 02/14/23 15:22

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:35	1
Calcium	87900		500		ug/L		03/20/23 09:01	03/21/23 19:38	1
Iron	5240		100		ug/L		03/20/23 09:01	03/21/23 19:38	1
Magnesium	2750		500		ug/L		03/20/23 09:01	03/21/23 19:38	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:38	1
Potassium	2150		1000		ug/L		03/20/23 09:01	03/21/23 19:38	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:38	1
Sodium	11700		2000		ug/L		03/20/23 09:01	03/21/23 19:38	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		100		ug/L		03/20/23 09:01	03/21/23 16:31	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Barium	102		5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:31	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:31	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:31	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:31	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:31	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56395**

**Lab Sample ID: 680-232195-20**

Date Collected: 02/15/23 11:36

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:39	1
Calcium	355000		500		ug/L		03/20/23 09:01	03/21/23 19:42	1
Iron	3970		100		ug/L		03/20/23 09:01	03/21/23 19:42	1
Magnesium	43700		500		ug/L		03/20/23 09:01	03/21/23 19:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:42	1
Potassium	9610		1000		ug/L		03/20/23 09:01	03/21/23 19:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:42	1
Sodium	71800		2000		ug/L		03/20/23 09:01	03/21/23 19:42	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	194		100		ug/L		03/20/23 09:01	03/21/23 16:35	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Arsenic	11.5		3.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Barium	151		5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Beryllium	1.46		0.500		ug/L		03/20/23 09:01	03/21/23 16:35	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:35	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Cobalt	18.5		0.500		ug/L		03/20/23 09:01	03/21/23 16:35	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:35	1
Nickel	10.1		5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:35	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56396**

**Lab Sample ID: 680-232195-21**

Date Collected: 02/15/23 13:21

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:44	1
<b>Calcium</b>	<b>226000</b>		500		ug/L		03/20/23 09:01	03/21/23 19:51	1
<b>Iron</b>	<b>23400</b>		100		ug/L		03/20/23 09:01	03/21/23 19:51	1
<b>Magnesium</b>	<b>14600</b>		500		ug/L		03/20/23 09:01	03/21/23 19:51	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:51	1
<b>Potassium</b>	<b>2050</b>		1000		ug/L		03/20/23 09:01	03/21/23 19:51	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:51	1
<b>Sodium</b>	<b>42400</b>		2000		ug/L		03/20/23 09:01	03/21/23 19:51	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:54	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:24	1
<b>Barium</b>	<b>149</b>		5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:54	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:54	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
<b>Cobalt</b>	<b>0.565</b>		0.500		ug/L		03/20/23 09:01	03/21/23 16:54	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:24	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:24	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:54	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56397**

**Lab Sample ID: 680-232195-22**

Date Collected: 02/16/23 10:53

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:49	1
<b>Calcium</b>	<b>54900</b>		500		ug/L		03/20/23 09:01	03/21/23 19:45	1
<b>Iron</b>	<b>102</b>		100		ug/L		03/20/23 09:01	03/21/23 19:45	1
<b>Magnesium</b>	<b>3940</b>		500		ug/L		03/20/23 09:01	03/21/23 19:45	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:45	1
<b>Potassium</b>	<b>1830</b>		1000		ug/L		03/20/23 09:01	03/21/23 19:45	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:45	1
<b>Sodium</b>	<b>17100</b>		2000		ug/L		03/20/23 09:01	03/21/23 19:45	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:46	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:16	1
<b>Barium</b>	<b>34.2</b>		5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:46	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:46	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:46	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:16	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:16	1
<b>Zinc</b>	<b>114</b>		20.0		ug/L		03/20/23 09:01	03/21/23 16:46	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56400**

**Lab Sample ID: 680-232195-23**

Date Collected: 02/16/23 12:55

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:53	1
<b>Calcium</b>	<b>264000</b>		500		ug/L		03/20/23 09:01	03/21/23 19:48	1
<b>Iron</b>	<b>783</b>		100		ug/L		03/20/23 09:01	03/21/23 19:48	1
<b>Magnesium</b>	<b>3930</b>		500		ug/L		03/20/23 09:01	03/21/23 19:48	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:48	1
<b>Potassium</b>	<b>2390</b>		1000		ug/L		03/20/23 09:01	03/21/23 19:48	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:48	1
<b>Sodium</b>	<b>13900</b>		2000		ug/L		03/20/23 09:01	03/21/23 19:48	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:50	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:20	1
<b>Barium</b>	<b>46.4</b>		5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:50	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:50	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:50	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:20	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:20	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:50	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56442**

**Lab Sample ID: 680-232195-24**

Date Collected: 02/16/23 14:07

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:12	1
Calcium	162000		500		ug/L		03/20/23 09:01	03/21/23 19:55	1
Iron	286		100		ug/L		03/20/23 09:01	03/21/23 19:55	1
Magnesium	7610		500		ug/L		03/20/23 09:01	03/21/23 19:55	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:55	1
Potassium	4220		1000		ug/L		03/20/23 09:01	03/21/23 19:55	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:55	1
Sodium	21500		2000		ug/L		03/20/23 09:01	03/21/23 19:55	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:58	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Arsenic	3.62		3.00		ug/L		03/20/23 09:01	03/22/23 08:28	1
Barium	34.7		5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:58	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:58	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:58	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:28	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:28	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:58	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56443**

**Lab Sample ID: 680-232195-25**

Date Collected: 02/16/23 14:12

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:17	1
Calcium	166000		500		ug/L		03/20/23 09:01	03/21/23 19:58	1
Iron	359		100		ug/L		03/20/23 09:01	03/21/23 19:58	1
Magnesium	7850		500		ug/L		03/20/23 09:01	03/21/23 19:58	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:58	1
Potassium	4220		1000		ug/L		03/20/23 09:01	03/21/23 19:58	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:58	1
Sodium	21500		2000		ug/L		03/20/23 09:01	03/21/23 19:58	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	239		100		ug/L		03/20/23 09:01	03/21/23 17:02	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Arsenic	4.54		3.00		ug/L		03/20/23 09:01	03/22/23 08:32	1
Barium	39.2		5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:02	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:02	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Cobalt	0.715		0.500		ug/L		03/20/23 09:01	03/21/23 17:02	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:32	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:32	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:02	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56402**

**Lab Sample ID: 680-232195-26**

Date Collected: 02/27/23 12:47

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:21	1
Calcium	199000		500		ug/L		03/20/23 09:01	03/21/23 20:01	1
Iron	22900		100		ug/L		03/20/23 09:01	03/21/23 20:01	1
Magnesium	23600		500		ug/L		03/20/23 09:01	03/21/23 20:01	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:01	1
Potassium	11200		1000		ug/L		03/20/23 09:01	03/21/23 20:01	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:01	1
Sodium	34600		2000		ug/L		03/20/23 09:01	03/21/23 20:01	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	327		100		ug/L		03/20/23 09:01	03/21/23 17:06	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Arsenic	31.0		3.00		ug/L		03/20/23 09:01	03/22/23 08:36	1
Barium	77.9		5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:06	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:06	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:06	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:36	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:36	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:06	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56403**

**Lab Sample ID: 680-232195-27**

Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	70.2		50.0		ug/L		03/23/23 14:19	03/24/23 23:26	1
Calcium	645000		500		ug/L		03/20/23 09:01	03/21/23 20:04	1
Iron	22000		100		ug/L		03/20/23 09:01	03/21/23 20:04	1
Magnesium	90500		500		ug/L		03/20/23 09:01	03/21/23 20:04	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:04	1
Potassium	28700		1000		ug/L		03/20/23 09:01	03/21/23 20:04	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:04	1
Sodium	156000		2000		ug/L		03/20/23 09:01	03/21/23 20:04	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:10	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:40	1
Barium	318		5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:10	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:10	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:10	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:40	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:40	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:10	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56404**

**Lab Sample ID: 680-232195-28**

Date Collected: 02/27/23 10:02

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	64.9		50.0		ug/L		03/23/23 14:19	03/24/23 23:31	1
Calcium	653000		500		ug/L		03/20/23 09:01	03/21/23 20:08	1
Iron	22200		100		ug/L		03/20/23 09:01	03/21/23 20:08	1
Magnesium	91700		500		ug/L		03/20/23 09:01	03/21/23 20:08	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:08	1
Potassium	28600		1000		ug/L		03/20/23 09:01	03/21/23 20:08	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:08	1
Sodium	158000		2000		ug/L		03/20/23 09:01	03/21/23 20:08	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:14	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:43	1
Barium	313		5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:14	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:14	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:14	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:43	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:43	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:14	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56434**

**Lab Sample ID: 680-232195-29**

Date Collected: 02/27/23 15:44

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:36	1
<b>Calcium</b>	<b>60500</b>		500		ug/L		03/20/23 09:01	03/21/23 20:17	1
<b>Iron</b>	<b>2930</b>		100		ug/L		03/20/23 09:01	03/21/23 20:17	1
<b>Magnesium</b>	<b>1910</b>		500		ug/L		03/20/23 09:01	03/21/23 20:17	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:17	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 20:17	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:17	1
<b>Sodium</b>	<b>4740</b>		2000		ug/L		03/20/23 09:01	03/21/23 20:17	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>929</b>		100		ug/L		03/20/23 09:01	03/21/23 17:18	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:47	1
<b>Barium</b>	<b>38.9</b>		5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:18	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:18	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
<b>Cobalt</b>	<b>2.41</b>		0.500		ug/L		03/20/23 09:01	03/21/23 17:18	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:47	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:47	1
<b>Zinc</b>	<b>68.5</b>		20.0		ug/L		03/20/23 09:01	03/21/23 17:18	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56433**

**Lab Sample ID: 680-232195-30**

Date Collected: 02/28/23 12:58

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:41	1
<b>Calcium</b>	<b>448000</b>		500		ug/L		03/20/23 09:01	03/21/23 20:21	1
<b>Iron</b>	<b>16300</b>		100		ug/L		03/20/23 09:01	03/21/23 20:21	1
<b>Magnesium</b>	<b>12900</b>		500		ug/L		03/20/23 09:01	03/21/23 20:21	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:21	1
<b>Potassium</b>	<b>5750</b>		1000		ug/L		03/20/23 09:01	03/21/23 20:21	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:21	1
<b>Sodium</b>	<b>10800</b>		2000		ug/L		03/20/23 09:01	03/21/23 20:21	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:22	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:03	1
<b>Barium</b>	<b>53.8</b>		5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:22	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:22	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:22	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:03	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:03	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:22	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56435**

**Lab Sample ID: 680-232195-31**

Date Collected: 02/28/23 11:44

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:45	1
<b>Calcium</b>	<b>21900</b>		500		ug/L		03/20/23 09:01	03/21/23 20:24	1
<b>Iron</b>	<b>880</b>		100		ug/L		03/20/23 09:01	03/21/23 20:24	1
<b>Magnesium</b>	<b>892</b>		500		ug/L		03/20/23 09:01	03/21/23 20:24	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:24	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 20:24	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:24	1
<b>Sodium</b>	<b>3260</b>		2000		ug/L		03/20/23 09:01	03/21/23 20:24	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3790</b>		100		ug/L		03/20/23 09:01	03/21/23 17:33	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
<b>Arsenic</b>	<b>8.02</b>		3.00		ug/L		03/20/23 09:01	03/22/23 09:07	1
<b>Barium</b>	<b>34.7</b>		5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:07	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:33	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
<b>Cobalt</b>	<b>1.29</b>		0.500		ug/L		03/20/23 09:01	03/21/23 17:33	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:07	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:07	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:33	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56436**

**Lab Sample ID: 680-232195-32**

Date Collected: 02/28/23 10:19

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:50	1
<b>Calcium</b>	<b>92200</b>		500		ug/L		03/20/23 09:01	03/21/23 20:30	1
<b>Iron</b>	<b>771</b>		100		ug/L		03/20/23 09:01	03/21/23 20:30	1
<b>Magnesium</b>	<b>2500</b>		500		ug/L		03/20/23 09:01	03/21/23 20:30	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:30	1
<b>Potassium</b>	<b>1580</b>		1000		ug/L		03/20/23 09:01	03/21/23 20:30	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:30	1
<b>Sodium</b>	<b>5430</b>		2000		ug/L		03/20/23 09:01	03/21/23 20:30	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:41	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:15	1
<b>Barium</b>	<b>37.2</b>		5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:15	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:41	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:41	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:15	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:15	1
<b>Zinc</b>	<b>42.9</b>		20.0		ug/L		03/20/23 09:01	03/21/23 17:41	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56437**

**Lab Sample ID: 680-232195-33**

Date Collected: 02/28/23 10:24

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:55	1
<b>Calcium</b>	<b>93200</b>		500		ug/L		03/20/23 09:01	03/21/23 20:27	1
<b>Iron</b>	<b>1200</b>		100		ug/L		03/20/23 09:01	03/21/23 20:27	1
<b>Magnesium</b>	<b>1750</b>		500		ug/L		03/20/23 09:01	03/21/23 20:27	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:27	1
<b>Potassium</b>	<b>1260</b>		1000		ug/L		03/20/23 09:01	03/21/23 20:27	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:27	1
<b>Sodium</b>	<b>3590</b>		2000		ug/L		03/20/23 09:01	03/21/23 20:27	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:37	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:11	1
<b>Barium</b>	<b>36.8</b>		5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:11	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:37	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:37	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:11	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:11	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:37	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56438**

**Lab Sample ID: 680-232195-34**

Date Collected: 02/28/23 14:31

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/25/23 00:13	1
<b>Calcium</b>	<b>296000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:21	1
<b>Iron</b>	<b>1040</b>		100		ug/L		03/20/23 13:39	03/21/23 11:21	1
<b>Magnesium</b>	<b>28800</b>		500		ug/L		03/20/23 13:39	03/21/23 11:21	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:21	1
<b>Potassium</b>	<b>6790</b>		1000		ug/L		03/20/23 13:39	03/21/23 11:21	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:21	1
<b>Sodium</b>	<b>18000</b>		2000		ug/L		03/20/23 13:39	03/21/23 11:21	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:43	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
<b>Barium</b>	<b>41.2</b>		5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:43	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:43	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:43	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:43	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:43	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56409**

**Lab Sample ID: 680-232195-35**

Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	118		50.0		ug/L		03/23/23 14:19	03/25/23 00:18	1
Calcium	1140000		5000		ug/L		03/20/23 13:39	03/22/23 12:16	10
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 11:24	1
Magnesium	30500		500		ug/L		03/20/23 13:39	03/21/23 11:24	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:24	1
Potassium	15500		1000		ug/L		03/20/23 13:39	03/21/23 11:24	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:24	1
Sodium	139000		2000		ug/L		03/20/23 13:39	03/21/23 11:24	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:47	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Arsenic	15.2		3.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Barium	54.6		5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:47	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:47	1
Chromium	13.2		5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:47	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:47	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:47	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56410**

**Lab Sample ID: 680-232195-36**

Date Collected: 03/06/23 12:19

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	109		50.0		ug/L		03/23/23 14:19	03/25/23 00:23	1
Calcium	1160000		5000		ug/L		03/20/23 13:39	03/22/23 12:13	10
Iron	113		100		ug/L		03/20/23 13:39	03/21/23 11:08	1
Magnesium	30800		500		ug/L		03/20/23 13:39	03/21/23 11:08	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:08	1
Potassium	15700		1000		ug/L		03/20/23 13:39	03/21/23 11:08	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:08	1
Sodium	140000		2000		ug/L		03/20/23 13:39	03/21/23 11:08	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:27	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Arsenic	13.0		3.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Barium	56.5		5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:27	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:27	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:27	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:27	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:27	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56411**

**Lab Sample ID: 680-232195-37**

Date Collected: 03/06/23 11:08

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	92.4		50.0		ug/L		03/23/23 14:21	03/25/23 00:37	1
Calcium	849000		5000		ug/L		03/20/23 13:39	03/22/23 12:19	10
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 11:37	1
Magnesium	42600		500		ug/L		03/20/23 13:39	03/21/23 11:37	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:37	1
Potassium	13800		1000		ug/L		03/20/23 13:39	03/21/23 11:37	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:37	1
Sodium	126000		2000		ug/L		03/20/23 13:39	03/21/23 11:37	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 23:02	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Arsenic	7.06		3.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Barium	108		5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:02	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:02	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:02	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 23:02	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Zinc	35.7		20.0		ug/L		03/20/23 13:39	03/21/23 23:02	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56412**

**Lab Sample ID: 680-232195-38**

Date Collected: 03/06/23 15:15

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	64.6		50.0		ug/L		03/23/23 14:21	03/25/23 00:55	1
Calcium	698000		500		ug/L		03/20/23 13:39	03/21/23 11:30	1
Iron	1420		100		ug/L		03/20/23 13:39	03/21/23 11:30	1
Magnesium	29900		500		ug/L		03/20/23 13:39	03/21/23 11:30	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:30	1
Potassium	7230		1000		ug/L		03/20/23 13:39	03/21/23 11:30	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:30	1
Sodium	107000		2000		ug/L		03/20/23 13:39	03/21/23 11:30	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:55	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Arsenic	6.71		3.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Barium	158		5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:55	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:55	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:55	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:55	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:55	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56413**

**Lab Sample ID: 680-232195-39**

Date Collected: 03/06/23 13:41

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:18	1
<b>Calcium</b>	<b>161000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:27	1
<b>Iron</b>	<b>7850</b>		100		ug/L		03/20/23 13:39	03/21/23 11:27	1
<b>Magnesium</b>	<b>11100</b>		500		ug/L		03/20/23 13:39	03/21/23 11:27	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:27	1
<b>Potassium</b>	<b>4680</b>		1000		ug/L		03/20/23 13:39	03/21/23 11:27	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:27	1
<b>Sodium</b>	<b>71500</b>		2000		ug/L		03/20/23 13:39	03/21/23 11:27	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:51	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
<b>Barium</b>	<b>85.5</b>		5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:51	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:51	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
<b>Cobalt</b>	<b>0.955</b>		0.500		ug/L		03/20/23 13:39	03/21/23 22:51	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:51	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:51	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56430**

**Lab Sample ID: 680-232195-40**

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:23	1
<b>Calcium</b>	<b>448000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:11	1
<b>Iron</b>	<b>32200</b>		100		ug/L		03/20/23 13:39	03/21/23 11:11	1
<b>Magnesium</b>	<b>72300</b>		500		ug/L		03/20/23 13:39	03/21/23 11:11	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:11	1
<b>Potassium</b>	<b>6530</b>		1000		ug/L		03/20/23 13:39	03/21/23 11:11	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:11	1
<b>Sodium</b>	<b>87300</b>		2000		ug/L		03/20/23 13:39	03/21/23 11:11	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:31	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
<b>Barium</b>	<b>48.0</b>		5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:31	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:31	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
<b>Cobalt</b>	<b>6.15</b>		0.500		ug/L		03/20/23 13:39	03/21/23 22:31	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:31	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:31	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56406**

**Lab Sample ID: 680-232195-41**

Date Collected: 03/09/23 10:29

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:28	1
<b>Calcium</b>	<b>194000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:40	1
<b>Iron</b>	<b>1380</b>		100		ug/L		03/20/23 13:39	03/21/23 11:40	1
<b>Magnesium</b>	<b>17000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:40	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:40	1
<b>Potassium</b>	<b>4650</b>		1000		ug/L		03/20/23 13:39	03/21/23 11:40	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:40	1
<b>Sodium</b>	<b>43100</b>		2000		ug/L		03/20/23 13:39	03/21/23 11:40	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>1740</b>		100		ug/L		03/20/23 13:39	03/21/23 23:06	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
<b>Barium</b>	<b>38.2</b>		5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:06	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:06	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
<b>Cobalt</b>	<b>1.83</b>		0.500		ug/L		03/20/23 13:39	03/21/23 23:06	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 23:06	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
<b>Zinc</b>	<b>40.6</b>		20.0		ug/L		03/20/23 13:39	03/21/23 23:06	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56407**

**Lab Sample ID: 680-232195-42**

Date Collected: 03/09/23 10:34

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:32	1
<b>Calcium</b>	<b>210000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:43	1
<b>Iron</b>	<b>1430</b>		100		ug/L		03/20/23 13:39	03/21/23 11:43	1
<b>Magnesium</b>	<b>18500</b>		500		ug/L		03/20/23 13:39	03/21/23 11:43	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:43	1
<b>Potassium</b>	<b>5200</b>		1000		ug/L		03/20/23 13:39	03/21/23 11:43	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:43	1
<b>Sodium</b>	<b>46500</b>		2000		ug/L		03/20/23 13:39	03/21/23 11:43	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>1590</b>		100		ug/L		03/20/23 13:39	03/21/23 23:10	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
<b>Barium</b>	<b>38.7</b>		5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:10	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:10	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
<b>Cobalt</b>	<b>2.01</b>		0.500		ug/L		03/20/23 13:39	03/21/23 23:10	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 23:10	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
<b>Zinc</b>	<b>28.0</b>		20.0		ug/L		03/20/23 13:39	03/21/23 23:10	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56418**

**Lab Sample ID: 680-232195-43**

Date Collected: 03/09/23 12:07

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	87.9		50.0		ug/L		03/23/23 14:21	03/25/23 01:37	1
Calcium	95500		500		ug/L		03/20/23 13:39	03/21/23 11:34	1
Iron	788		100		ug/L		03/20/23 13:39	03/21/23 11:34	1
Magnesium	7530		500		ug/L		03/20/23 13:39	03/21/23 11:34	1
Molybdenum	92.0		10.0		ug/L		03/20/23 13:39	03/21/23 11:34	1
Potassium	7660		1000		ug/L		03/20/23 13:39	03/21/23 11:34	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:34	1
Sodium	25300		2000		ug/L		03/20/23 13:39	03/21/23 11:34	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	130		100		ug/L		03/20/23 13:39	03/21/23 22:59	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Arsenic	229		3.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Barium	133		5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:59	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:59	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Cobalt	2.16		0.500		ug/L		03/20/23 13:39	03/21/23 22:59	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:59	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:59	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56422**

**Lab Sample ID: 680-232195-44**

Date Collected: 03/09/23 13:19

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:42	1
<b>Calcium</b>	<b>248000</b>		500		ug/L		03/20/23 13:39	03/21/23 11:05	1
<b>Iron</b>	<b>6050</b>		100		ug/L		03/20/23 13:39	03/21/23 11:05	1
<b>Magnesium</b>	<b>8900</b>		500		ug/L		03/20/23 13:39	03/21/23 11:05	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:05	1
<b>Potassium</b>	<b>3850</b>		1000		ug/L		03/20/23 13:39	03/21/23 11:05	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:05	1
<b>Sodium</b>	<b>73300</b>		2000		ug/L		03/20/23 13:39	03/21/23 11:05	1

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:23	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
<b>Arsenic</b>	<b>3.54</b>		3.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
<b>Barium</b>	<b>104</b>		5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:23	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:23	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:23	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:23	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
<b>Zinc</b>	<b>48.0</b>		20.0		ug/L		03/20/23 13:39	03/21/23 22:23	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6010D - Metals (ICP)

<b>Lab Sample ID: MB 160-604817/1-A</b>							<b>Client Sample ID: Method Blank</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 605060</b>							<b>Prep Batch: 604817</b>			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 19:15	1	
<b>Lab Sample ID: LCS 160-604817/2-A</b>							<b>Client Sample ID: Lab Control Sample</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 605060</b>							<b>Prep Batch: 604817</b>			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lithium	100	104.4		ug/L		104	80 - 120			
<b>Lab Sample ID: MB 160-604819/1-A</b>							<b>Client Sample ID: Method Blank</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 605060</b>							<b>Prep Batch: 604819</b>			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 21:45	1	
<b>Lab Sample ID: LCS 160-604819/2-A</b>							<b>Client Sample ID: Lab Control Sample</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 605060</b>							<b>Prep Batch: 604819</b>			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lithium	100	111.0		ug/L		111	80 - 120			
<b>Lab Sample ID: MB 160-604820/1-A</b>							<b>Client Sample ID: Method Blank</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 605060</b>							<b>Prep Batch: 604820</b>			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 00:28	1	
<b>Lab Sample ID: LCS 160-604820/2-A</b>							<b>Client Sample ID: Lab Control Sample</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 605060</b>							<b>Prep Batch: 604820</b>			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lithium	100	112.0		ug/L		112	80 - 120			
<b>Lab Sample ID: MB 680-768608/1-A</b>							<b>Client Sample ID: Method Blank</b>			
<b>Matrix: Water</b>							<b>Prep Type: Total Recoverable</b>			
<b>Analysis Batch: 768929</b>							<b>Prep Batch: 768608</b>			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Calcium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1	
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 10:42	1	
Magnesium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:42	1	
Potassium	1000	U	1000		ug/L		03/20/23 13:39	03/21/23 10:42	1	
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:42	1	
Sodium	2000	U	2000		ug/L		03/20/23 13:39	03/21/23 10:42	1	

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: LCS 680-768608/2-A**  
**Matrix: Water**  
**Analysis Batch: 768929**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768608**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	5036		ug/L		101	80 - 120	
Iron	5000	5196		ug/L		104	80 - 120	
Magnesium	5010	5075		ug/L		101	80 - 120	
Molybdenum	100	101.3		ug/L		101	80 - 120	
Potassium	6970	7195		ug/L		103	80 - 120	
Selenium	100	91.14		ug/L		91	80 - 120	
Sodium	5050	4981		ug/L		99	80 - 120	

**Lab Sample ID: MB 680-768859/1-A**  
**Matrix: Water**  
**Analysis Batch: 768929**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768859**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1
Iron	100	U	100		ug/L		03/20/23 09:01	03/21/23 19:06	1
Magnesium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:06	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:06	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:06	1
Sodium	2000	U	2000		ug/L		03/20/23 09:01	03/21/23 19:06	1

**Lab Sample ID: LCS 680-768859/2-A**  
**Matrix: Water**  
**Analysis Batch: 768929**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768859**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	5013		ug/L		100	80 - 120	
Iron	5000	5131		ug/L		103	80 - 120	
Magnesium	5010	5094		ug/L		102	80 - 120	
Molybdenum	100	100.7		ug/L		101	80 - 120	
Potassium	6970	7245		ug/L		104	80 - 120	
Selenium	100	95.19		ug/L		95	80 - 120	
Sodium	5050	5031		ug/L		100	80 - 120	

**Lab Sample ID: MB 680-769547/1-A**  
**Matrix: Water**  
**Analysis Batch: 769727**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 769547**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		03/24/23 14:44	03/24/23 19:40	1
Iron	100	U	100		ug/L		03/24/23 14:44	03/24/23 19:40	1
Magnesium	500	U	500		ug/L		03/24/23 14:44	03/24/23 19:40	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 19:40	1
Potassium	1000	U	1000		ug/L		03/24/23 14:44	03/24/23 19:40	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 19:40	1
Sodium	2000	U	2000		ug/L		03/24/23 14:44	03/24/23 19:40	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: LCS 680-769547/2-A**  
**Matrix: Water**  
**Analysis Batch: 769727**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 769547**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Calcium	5000	4687		ug/L		94	80 - 120	
Iron	5000	4647		ug/L		93	80 - 120	
Magnesium	5010	4712		ug/L		94	80 - 120	
Molybdenum	100	94.36		ug/L		94	80 - 120	
Potassium	6970	6849		ug/L		98	80 - 120	
Selenium	100	88.77		ug/L		89	80 - 120	
Sodium	5050	4885		ug/L		97	80 - 120	

**Lab Sample ID: 680-232195-17 MS**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: AF56394**  
**Prep Type: Dissolved**  
**Prep Batch: 604819**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
									Limits	
Lithium	50.0	U	100	109.8		ug/L		110	75 - 125	

**Lab Sample ID: 680-232195-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: AF56394**  
**Prep Type: Dissolved**  
**Prep Batch: 604819**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									Limits		RPD	Limit
Lithium	50.0	U	100	105.2		ug/L		105	75 - 125	4	20	

**Lab Sample ID: 680-232195-37 MS**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: AF56411**  
**Prep Type: Dissolved**  
**Prep Batch: 604820**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
									Limits	
Lithium	92.4		100	217.4		ug/L		125	75 - 125	

**Lab Sample ID: 680-232195-37 MSD**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: AF56411**  
**Prep Type: Dissolved**  
**Prep Batch: 604820**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									Limits		RPD	Limit
Lithium	92.4		100	216.3		ug/L		124	75 - 125	1	20	

**Lab Sample ID: 680-232195-15 MS**  
**Matrix: Water**  
**Analysis Batch: 768929**

**Client Sample ID: AF56417**  
**Prep Type: Dissolved**  
**Prep Batch: 768859**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
									Limits	
Calcium	270000		5000	260000	4	ug/L		-196	75 - 125	
Iron	1940		5000	6853		ug/L		98	75 - 125	
Magnesium	38900		5010	42060	4	ug/L		62	75 - 125	
Molybdenum	21.2		100	121.2		ug/L		100	75 - 125	
Potassium	14100		6970	20270		ug/L		89	75 - 125	
Selenium	20.0	U	100	90.82		ug/L		91	75 - 125	
Sodium	72300		5050	73490	4	ug/L		25	75 - 125	

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-232195-15 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56417

Prep Type: Dissolved

Prep Batch: 768859

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	270000		5000	255000	4	ug/L		-296	75 - 125	2	20
Iron	1940		5000	6800		ug/L		97	75 - 125	1	20
Magnesium	38900		5010	41060	4	ug/L		42	75 - 125	2	20
Molybdenum	21.2		100	119.7		ug/L		99	75 - 125	1	20
Potassium	14100		6970	20170		ug/L		88	75 - 125	0	20
Selenium	20.0	U	100	95.36		ug/L		95	75 - 125	5	20
Sodium	72300		5050	71860	4	ug/L		-8	75 - 125	2	20

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-768492/1-A

Matrix: Water

Analysis Batch: 768799

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 768492

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 07:15	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Barium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 07:15	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 07:15	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 07:15	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 07:15	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 07:15	1

Lab Sample ID: LCS 680-768492/2-A

Matrix: Water

Analysis Batch: 768799

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 768492

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Aluminum	5000	4932		ug/L		99	80 - 120
Antimony	50.0	47.96		ug/L		96	80 - 120
Arsenic	100	100.2		ug/L		100	80 - 120
Barium	100	97.57		ug/L		98	80 - 120
Beryllium	50.0	49.66		ug/L		99	80 - 120
Cadmium	50.0	48.34		ug/L		97	80 - 120
Chromium	100	101.0		ug/L		101	80 - 120
Cobalt	50.0	50.30		ug/L		101	80 - 120
Lead	505	492.9		ug/L		98	80 - 120
Nickel	100	98.30		ug/L		98	80 - 120
Silver	50.0	47.86		ug/L		96	80 - 120
Thallium	50.0	47.36		ug/L		95	80 - 120
Zinc	100	104.8		ug/L		105	80 - 120

Eurofins Savannah

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 680-768540/1-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768540**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 15:59	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 15:59	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 15:59	1

**Lab Sample ID: LCS 680-768540/2-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768540**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	51.80		ug/L		104	80 - 120
Arsenic	100	103.7		ug/L		104	80 - 120
Barium	100	102.1		ug/L		102	80 - 120
Beryllium	50.0	54.66		ug/L		109	80 - 120
Cadmium	50.0	51.98		ug/L		104	80 - 120
Chromium	100	108.2		ug/L		108	80 - 120
Cobalt	50.0	53.54		ug/L		107	80 - 120
Lead	505	507.5		ug/L		101	80 - 120
Nickel	100	105.2		ug/L		105	80 - 120
Silver	50.0	54.86		ug/L		110	80 - 120
Thallium	50.0	49.92		ug/L		100	80 - 120
Zinc	100	110.6		ug/L		111	80 - 120

**Lab Sample ID: MB 680-768613/1-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768613**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 21:56	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Barium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 21:56	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-768613/1-A  
 Matrix: Water  
 Analysis Batch: 768945

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 768613

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 21:56	1

Lab Sample ID: LCS 680-768613/2-A  
 Matrix: Water  
 Analysis Batch: 768945

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 768613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	50.30		ug/L		101	80 - 120
Arsenic	100	96.86		ug/L		97	80 - 120
Barium	100	96.16		ug/L		96	80 - 120
Beryllium	50.0	49.35		ug/L		99	80 - 120
Cadmium	50.0	49.86		ug/L		100	80 - 120
Chromium	100	98.60		ug/L		99	80 - 120
Cobalt	50.0	50.99		ug/L		102	80 - 120
Lead	505	475.9		ug/L		94	80 - 120
Nickel	100	96.51		ug/L		97	80 - 120
Silver	50.0	49.14		ug/L		98	80 - 120
Thallium	50.0	47.31		ug/L		95	80 - 120
Zinc	100	101.1		ug/L		101	80 - 120

Lab Sample ID: 680-232195-15 MS  
 Matrix: Water  
 Analysis Batch: 768945

Client Sample ID: AF56417  
 Prep Type: Dissolved  
 Prep Batch: 768540

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Aluminum	100	U	5000	5266		ug/L		104	75 - 125
Antimony	5.00	U	50.0	51.47		ug/L		103	75 - 125
Arsenic	84.0		100	178.9		ug/L		95	75 - 125
Barium	50.0		100	145.4		ug/L		95	75 - 125
Beryllium	0.500	U	50.0	54.31		ug/L		109	75 - 125
Cadmium	0.500	U	50.0	51.03		ug/L		102	75 - 125
Chromium	5.00	U	100	107.5		ug/L		106	75 - 125
Cobalt	0.500	U	50.0	52.11		ug/L		104	75 - 125
Lead	2.50	U	505	509.1		ug/L		101	75 - 125
Nickel	5.00	U	100	102.7		ug/L		103	75 - 125
Silver	1.00	U	50.0	50.31		ug/L		101	75 - 125
Thallium	1.00	U	50.0	50.73		ug/L		101	75 - 125
Zinc	20.0	U	100	101.3		ug/L		97	75 - 125

Lab Sample ID: 680-232195-15 MSD  
 Matrix: Water  
 Analysis Batch: 768945

Client Sample ID: AF56417  
 Prep Type: Dissolved  
 Prep Batch: 768540

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Aluminum	100	U	5000	5228		ug/L		104	75 - 125	1	20
Antimony	5.00	U	50.0	49.87		ug/L		100	75 - 125	3	20
Arsenic	84.0		100	181.5		ug/L		98	75 - 125	1	20

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-232195-15 MSD

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56417

Prep Type: Dissolved

Prep Batch: 768540

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Barium	50.0		100	145.6		ug/L		96	75 - 125	0	20
Beryllium	0.500	U	50.0	52.47		ug/L		105	75 - 125	3	20
Cadmium	0.500	U	50.0	49.32		ug/L		99	75 - 125	3	20
Chromium	5.00	U	100	104.1		ug/L		103	75 - 125	3	20
Cobalt	0.500	U	50.0	52.90		ug/L		106	75 - 125	2	20
Lead	2.50	U	505	507.0		ug/L		100	75 - 125	0	20
Nickel	5.00	U	100	99.09		ug/L		99	75 - 125	4	20
Silver	1.00	U	50.0	50.77		ug/L		102	75 - 125	1	20
Thallium	1.00	U	50.0	50.56		ug/L		101	75 - 125	0	20
Zinc	20.0	U	100	102.5		ug/L		98	75 - 125	1	20



# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals

### Prep Batch: 604817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	3010A	
680-232195-2	AF56424	Dissolved	Water	3010A	
680-232195-3	AF56439	Dissolved	Water	3010A	
680-232195-4	AF56441	Dissolved	Water	3010A	
680-232195-5	AF56414	Dissolved	Water	3010A	
680-232195-6	AF56423	Dissolved	Water	3010A	
680-232195-7	AF56428	Dissolved	Water	3010A	
680-232195-8	AF56419	Dissolved	Water	3010A	
680-232195-9	AF56425	Dissolved	Water	3010A	
680-232195-10	AF56426	Dissolved	Water	3010A	
680-232195-11	AF56427	Dissolved	Water	3010A	
680-232195-12	AF56408	Dissolved	Water	3010A	
680-232195-13	AF56415	Dissolved	Water	3010A	
680-232195-14	AF56416	Dissolved	Water	3010A	
680-232195-15	AF56417	Dissolved	Water	3010A	
680-232195-16	AF56429	Dissolved	Water	3010A	
MB 160-604817/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	3010A	

### Prep Batch: 604819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-17	AF56394	Dissolved	Water	3010A	
680-232195-18	AF56331	Dissolved	Water	3010A	
680-232195-19	AF56332	Dissolved	Water	3010A	
680-232195-20	AF56395	Dissolved	Water	3010A	
680-232195-21	AF56396	Dissolved	Water	3010A	
680-232195-22	AF56397	Dissolved	Water	3010A	
680-232195-23	AF56400	Dissolved	Water	3010A	
680-232195-24	AF56442	Dissolved	Water	3010A	
680-232195-25	AF56443	Dissolved	Water	3010A	
680-232195-26	AF56402	Dissolved	Water	3010A	
680-232195-27	AF56403	Dissolved	Water	3010A	
680-232195-28	AF56404	Dissolved	Water	3010A	
680-232195-29	AF56434	Dissolved	Water	3010A	
680-232195-30	AF56433	Dissolved	Water	3010A	
680-232195-31	AF56435	Dissolved	Water	3010A	
680-232195-32	AF56436	Dissolved	Water	3010A	
680-232195-33	AF56437	Dissolved	Water	3010A	
680-232195-34	AF56438	Dissolved	Water	3010A	
680-232195-35	AF56409	Dissolved	Water	3010A	
680-232195-36	AF56410	Dissolved	Water	3010A	
MB 160-604819/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604819/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232195-17 MS	AF56394	Dissolved	Water	3010A	
680-232195-17 MSD	AF56394	Dissolved	Water	3010A	

### Prep Batch: 604820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-37	AF56411	Dissolved	Water	3010A	
680-232195-38	AF56412	Dissolved	Water	3010A	
680-232195-39	AF56413	Dissolved	Water	3010A	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Prep Batch: 604820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-40	AF56430	Dissolved	Water	3010A	
680-232195-41	AF56406	Dissolved	Water	3010A	
680-232195-42	AF56407	Dissolved	Water	3010A	
680-232195-43	AF56418	Dissolved	Water	3010A	
680-232195-44	AF56422	Dissolved	Water	3010A	
MB 160-604820/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604820/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232195-37 MS	AF56411	Dissolved	Water	3010A	
680-232195-37 MSD	AF56411	Dissolved	Water	3010A	

### Analysis Batch: 605060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	6010D	604817
680-232195-2	AF56424	Dissolved	Water	6010D	604817
680-232195-3	AF56439	Dissolved	Water	6010D	604817
680-232195-4	AF56441	Dissolved	Water	6010D	604817
680-232195-5	AF56414	Dissolved	Water	6010D	604817
680-232195-6	AF56423	Dissolved	Water	6010D	604817
680-232195-7	AF56428	Dissolved	Water	6010D	604817
680-232195-8	AF56419	Dissolved	Water	6010D	604817
680-232195-9	AF56425	Dissolved	Water	6010D	604817
680-232195-10	AF56426	Dissolved	Water	6010D	604817
680-232195-11	AF56427	Dissolved	Water	6010D	604817
680-232195-12	AF56408	Dissolved	Water	6010D	604817
680-232195-13	AF56415	Dissolved	Water	6010D	604817
680-232195-14	AF56416	Dissolved	Water	6010D	604817
680-232195-15	AF56417	Dissolved	Water	6010D	604817
680-232195-16	AF56429	Dissolved	Water	6010D	604817
680-232195-17	AF56394	Dissolved	Water	6010D	604819
680-232195-18	AF56331	Dissolved	Water	6010D	604819
680-232195-19	AF56332	Dissolved	Water	6010D	604819
680-232195-20	AF56395	Dissolved	Water	6010D	604819
680-232195-21	AF56396	Dissolved	Water	6010D	604819
680-232195-22	AF56397	Dissolved	Water	6010D	604819
680-232195-23	AF56400	Dissolved	Water	6010D	604819
680-232195-24	AF56442	Dissolved	Water	6010D	604819
680-232195-25	AF56443	Dissolved	Water	6010D	604819
680-232195-26	AF56402	Dissolved	Water	6010D	604819
680-232195-27	AF56403	Dissolved	Water	6010D	604819
680-232195-28	AF56404	Dissolved	Water	6010D	604819
680-232195-29	AF56434	Dissolved	Water	6010D	604819
680-232195-30	AF56433	Dissolved	Water	6010D	604819
680-232195-31	AF56435	Dissolved	Water	6010D	604819
680-232195-32	AF56436	Dissolved	Water	6010D	604819
680-232195-33	AF56437	Dissolved	Water	6010D	604819
680-232195-34	AF56438	Dissolved	Water	6010D	604819
680-232195-35	AF56409	Dissolved	Water	6010D	604819
680-232195-36	AF56410	Dissolved	Water	6010D	604819
680-232195-37	AF56411	Dissolved	Water	6010D	604820
680-232195-38	AF56412	Dissolved	Water	6010D	604820
680-232195-39	AF56413	Dissolved	Water	6010D	604820

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Analysis Batch: 605060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-40	AF56430	Dissolved	Water	6010D	604820
680-232195-41	AF56406	Dissolved	Water	6010D	604820
680-232195-42	AF56407	Dissolved	Water	6010D	604820
680-232195-43	AF56418	Dissolved	Water	6010D	604820
680-232195-44	AF56422	Dissolved	Water	6010D	604820
MB 160-604817/1-A	Method Blank	Total/NA	Water	6010D	604817
MB 160-604819/1-A	Method Blank	Total/NA	Water	6010D	604819
MB 160-604820/1-A	Method Blank	Total/NA	Water	6010D	604820
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	6010D	604817
LCS 160-604819/2-A	Lab Control Sample	Total/NA	Water	6010D	604819
LCS 160-604820/2-A	Lab Control Sample	Total/NA	Water	6010D	604820
680-232195-17 MS	AF56394	Dissolved	Water	6010D	604819
680-232195-17 MSD	AF56394	Dissolved	Water	6010D	604819
680-232195-37 MS	AF56411	Dissolved	Water	6010D	604820
680-232195-37 MSD	AF56411	Dissolved	Water	6010D	604820

### Prep Batch: 768492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	3005A	
680-232195-2	AF56424	Dissolved	Water	3005A	
680-232195-3	AF56439	Dissolved	Water	3005A	
680-232195-4	AF56441	Dissolved	Water	3005A	
680-232195-5	AF56414	Dissolved	Water	3005A	
680-232195-6	AF56423	Dissolved	Water	3005A	
680-232195-7	AF56428	Dissolved	Water	3005A	
680-232195-8	AF56419	Dissolved	Water	3005A	
680-232195-9	AF56425	Dissolved	Water	3005A	
680-232195-10	AF56426	Dissolved	Water	3005A	
680-232195-11	AF56427	Dissolved	Water	3005A	
680-232195-12	AF56408	Dissolved	Water	3005A	
680-232195-13	AF56415	Dissolved	Water	3005A	
680-232195-14	AF56416	Dissolved	Water	3005A	
MB 680-768492/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768492/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 768540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	3005A	
680-232195-16	AF56429	Dissolved	Water	3005A	
680-232195-17	AF56394	Dissolved	Water	3005A	
680-232195-18	AF56331	Dissolved	Water	3005A	
680-232195-19	AF56332	Dissolved	Water	3005A	
680-232195-20	AF56395	Dissolved	Water	3005A	
680-232195-21	AF56396	Dissolved	Water	3005A	
680-232195-22	AF56397	Dissolved	Water	3005A	
680-232195-23	AF56400	Dissolved	Water	3005A	
680-232195-24	AF56442	Dissolved	Water	3005A	
680-232195-25	AF56443	Dissolved	Water	3005A	
680-232195-26	AF56402	Dissolved	Water	3005A	
680-232195-27	AF56403	Dissolved	Water	3005A	
680-232195-28	AF56404	Dissolved	Water	3005A	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Prep Batch: 768540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-29	AF56434	Dissolved	Water	3005A	
680-232195-30	AF56433	Dissolved	Water	3005A	
680-232195-31	AF56435	Dissolved	Water	3005A	
680-232195-32	AF56436	Dissolved	Water	3005A	
680-232195-33	AF56437	Dissolved	Water	3005A	
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232195-15 MS	AF56417	Dissolved	Water	3005A	
680-232195-15 MSD	AF56417	Dissolved	Water	3005A	

### Prep Batch: 768608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-34	AF56438	Dissolved	Water	3005A	
680-232195-35	AF56409	Dissolved	Water	3005A	
680-232195-36	AF56410	Dissolved	Water	3005A	
680-232195-37	AF56411	Dissolved	Water	3005A	
680-232195-38	AF56412	Dissolved	Water	3005A	
680-232195-39	AF56413	Dissolved	Water	3005A	
680-232195-40	AF56430	Dissolved	Water	3005A	
680-232195-41	AF56406	Dissolved	Water	3005A	
680-232195-42	AF56407	Dissolved	Water	3005A	
680-232195-43	AF56418	Dissolved	Water	3005A	
680-232195-44	AF56422	Dissolved	Water	3005A	
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 768613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-34	AF56438	Dissolved	Water	3005A	
680-232195-35	AF56409	Dissolved	Water	3005A	
680-232195-36	AF56410	Dissolved	Water	3005A	
680-232195-37	AF56411	Dissolved	Water	3005A	
680-232195-38	AF56412	Dissolved	Water	3005A	
680-232195-39	AF56413	Dissolved	Water	3005A	
680-232195-40	AF56430	Dissolved	Water	3005A	
680-232195-41	AF56406	Dissolved	Water	3005A	
680-232195-42	AF56407	Dissolved	Water	3005A	
680-232195-43	AF56418	Dissolved	Water	3005A	
680-232195-44	AF56422	Dissolved	Water	3005A	
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 768799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	6020B	768492
680-232195-2	AF56424	Dissolved	Water	6020B	768492
680-232195-3	AF56439	Dissolved	Water	6020B	768492
680-232195-4	AF56441	Dissolved	Water	6020B	768492
680-232195-5	AF56414	Dissolved	Water	6020B	768492
680-232195-6	AF56423	Dissolved	Water	6020B	768492
680-232195-7	AF56428	Dissolved	Water	6020B	768492

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Analysis Batch: 768799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-8	AF56419	Dissolved	Water	6020B	768492
680-232195-9	AF56425	Dissolved	Water	6020B	768492
680-232195-10	AF56426	Dissolved	Water	6020B	768492
680-232195-11	AF56427	Dissolved	Water	6020B	768492
680-232195-12	AF56408	Dissolved	Water	6020B	768492
680-232195-13	AF56415	Dissolved	Water	6020B	768492
680-232195-14	AF56416	Dissolved	Water	6020B	768492
MB 680-768492/1-A	Method Blank	Total Recoverable	Water	6020B	768492
LCS 680-768492/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768492

### Prep Batch: 768859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	3005A	
680-232195-16	AF56429	Dissolved	Water	3005A	
680-232195-17	AF56394	Dissolved	Water	3005A	
680-232195-18	AF56331	Dissolved	Water	3005A	
680-232195-19	AF56332	Dissolved	Water	3005A	
680-232195-20	AF56395	Dissolved	Water	3005A	
680-232195-21	AF56396	Dissolved	Water	3005A	
680-232195-22	AF56397	Dissolved	Water	3005A	
680-232195-23	AF56400	Dissolved	Water	3005A	
680-232195-24	AF56442	Dissolved	Water	3005A	
680-232195-25	AF56443	Dissolved	Water	3005A	
680-232195-26	AF56402	Dissolved	Water	3005A	
680-232195-27	AF56403	Dissolved	Water	3005A	
680-232195-28	AF56404	Dissolved	Water	3005A	
680-232195-29	AF56434	Dissolved	Water	3005A	
680-232195-30	AF56433	Dissolved	Water	3005A	
680-232195-31	AF56435	Dissolved	Water	3005A	
680-232195-32	AF56436	Dissolved	Water	3005A	
680-232195-33	AF56437	Dissolved	Water	3005A	
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232195-15 MS	AF56417	Dissolved	Water	3005A	
680-232195-15 MSD	AF56417	Dissolved	Water	3005A	

### Analysis Batch: 768929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	6010D	768859
680-232195-16	AF56429	Dissolved	Water	6010D	768859
680-232195-17	AF56394	Dissolved	Water	6010D	768859
680-232195-18	AF56331	Dissolved	Water	6010D	768859
680-232195-19	AF56332	Dissolved	Water	6010D	768859
680-232195-20	AF56395	Dissolved	Water	6010D	768859
680-232195-21	AF56396	Dissolved	Water	6010D	768859
680-232195-22	AF56397	Dissolved	Water	6010D	768859
680-232195-23	AF56400	Dissolved	Water	6010D	768859
680-232195-24	AF56442	Dissolved	Water	6010D	768859
680-232195-25	AF56443	Dissolved	Water	6010D	768859
680-232195-26	AF56402	Dissolved	Water	6010D	768859
680-232195-27	AF56403	Dissolved	Water	6010D	768859

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Analysis Batch: 768929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-28	AF56404	Dissolved	Water	6010D	768859
680-232195-29	AF56434	Dissolved	Water	6010D	768859
680-232195-30	AF56433	Dissolved	Water	6010D	768859
680-232195-31	AF56435	Dissolved	Water	6010D	768859
680-232195-32	AF56436	Dissolved	Water	6010D	768859
680-232195-33	AF56437	Dissolved	Water	6010D	768859
680-232195-34	AF56438	Dissolved	Water	6010D	768608
680-232195-35	AF56409	Dissolved	Water	6010D	768608
680-232195-36	AF56410	Dissolved	Water	6010D	768608
680-232195-37	AF56411	Dissolved	Water	6010D	768608
680-232195-38	AF56412	Dissolved	Water	6010D	768608
680-232195-39	AF56413	Dissolved	Water	6010D	768608
680-232195-40	AF56430	Dissolved	Water	6010D	768608
680-232195-41	AF56406	Dissolved	Water	6010D	768608
680-232195-42	AF56407	Dissolved	Water	6010D	768608
680-232195-43	AF56418	Dissolved	Water	6010D	768608
680-232195-44	AF56422	Dissolved	Water	6010D	768608
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	6010D	768608
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	6010D	768859
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768608
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768859
680-232195-15 MS	AF56417	Dissolved	Water	6010D	768859
680-232195-15 MSD	AF56417	Dissolved	Water	6010D	768859

### Analysis Batch: 768945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	6020B	768540
680-232195-16	AF56429	Dissolved	Water	6020B	768540
680-232195-17	AF56394	Dissolved	Water	6020B	768540
680-232195-18	AF56331	Dissolved	Water	6020B	768540
680-232195-19	AF56332	Dissolved	Water	6020B	768540
680-232195-20	AF56395	Dissolved	Water	6020B	768540
680-232195-21	AF56396	Dissolved	Water	6020B	768540
680-232195-22	AF56397	Dissolved	Water	6020B	768540
680-232195-23	AF56400	Dissolved	Water	6020B	768540
680-232195-24	AF56442	Dissolved	Water	6020B	768540
680-232195-25	AF56443	Dissolved	Water	6020B	768540
680-232195-26	AF56402	Dissolved	Water	6020B	768540
680-232195-27	AF56403	Dissolved	Water	6020B	768540
680-232195-28	AF56404	Dissolved	Water	6020B	768540
680-232195-29	AF56434	Dissolved	Water	6020B	768540
680-232195-30	AF56433	Dissolved	Water	6020B	768540
680-232195-31	AF56435	Dissolved	Water	6020B	768540
680-232195-32	AF56436	Dissolved	Water	6020B	768540
680-232195-33	AF56437	Dissolved	Water	6020B	768540
680-232195-34	AF56438	Dissolved	Water	6020B	768613
680-232195-35	AF56409	Dissolved	Water	6020B	768613
680-232195-36	AF56410	Dissolved	Water	6020B	768613
680-232195-37	AF56411	Dissolved	Water	6020B	768613
680-232195-38	AF56412	Dissolved	Water	6020B	768613
680-232195-39	AF56413	Dissolved	Water	6020B	768613

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Analysis Batch: 768945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-40	AF56430	Dissolved	Water	6020B	768613
680-232195-41	AF56406	Dissolved	Water	6020B	768613
680-232195-42	AF56407	Dissolved	Water	6020B	768613
680-232195-43	AF56418	Dissolved	Water	6020B	768613
680-232195-44	AF56422	Dissolved	Water	6020B	768613
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	6020B	768540
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	6020B	768613
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768540
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768613
680-232195-15 MS	AF56417	Dissolved	Water	6020B	768540
680-232195-15 MSD	AF56417	Dissolved	Water	6020B	768540

### Analysis Batch: 769014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-21	AF56396	Dissolved	Water	6020B	768540
680-232195-22	AF56397	Dissolved	Water	6020B	768540
680-232195-23	AF56400	Dissolved	Water	6020B	768540
680-232195-24	AF56442	Dissolved	Water	6020B	768540
680-232195-25	AF56443	Dissolved	Water	6020B	768540
680-232195-26	AF56402	Dissolved	Water	6020B	768540
680-232195-27	AF56403	Dissolved	Water	6020B	768540
680-232195-28	AF56404	Dissolved	Water	6020B	768540
680-232195-29	AF56434	Dissolved	Water	6020B	768540
680-232195-30	AF56433	Dissolved	Water	6020B	768540
680-232195-31	AF56435	Dissolved	Water	6020B	768540
680-232195-32	AF56436	Dissolved	Water	6020B	768540
680-232195-33	AF56437	Dissolved	Water	6020B	768540

### Analysis Batch: 769167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-35	AF56409	Dissolved	Water	6010D	768608
680-232195-36	AF56410	Dissolved	Water	6010D	768608
680-232195-37	AF56411	Dissolved	Water	6010D	768608

### Prep Batch: 769547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	3005A	
680-232195-2	AF56424	Dissolved	Water	3005A	
680-232195-3	AF56439	Dissolved	Water	3005A	
680-232195-4	AF56441	Dissolved	Water	3005A	
680-232195-5	AF56414	Dissolved	Water	3005A	
680-232195-6	AF56423	Dissolved	Water	3005A	
680-232195-7	AF56428	Dissolved	Water	3005A	
680-232195-8	AF56419	Dissolved	Water	3005A	
680-232195-9	AF56425	Dissolved	Water	3005A	
680-232195-10	AF56426	Dissolved	Water	3005A	
680-232195-11	AF56427	Dissolved	Water	3005A	
680-232195-12	AF56408	Dissolved	Water	3005A	
680-232195-13	AF56415	Dissolved	Water	3005A	
680-232195-14	AF56416	Dissolved	Water	3005A	
MB 680-769547/1-A	Method Blank	Total Recoverable	Water	3005A	

# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Metals (Continued)

### Prep Batch: 769547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-769547/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 769727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	6010D	769547
680-232195-2	AF56424	Dissolved	Water	6010D	769547
680-232195-3	AF56439	Dissolved	Water	6010D	769547
680-232195-4	AF56441	Dissolved	Water	6010D	769547
680-232195-5	AF56414	Dissolved	Water	6010D	769547
680-232195-6	AF56423	Dissolved	Water	6010D	769547
680-232195-7	AF56428	Dissolved	Water	6010D	769547
680-232195-8	AF56419	Dissolved	Water	6010D	769547
680-232195-9	AF56425	Dissolved	Water	6010D	769547
680-232195-10	AF56426	Dissolved	Water	6010D	769547
680-232195-11	AF56427	Dissolved	Water	6010D	769547
680-232195-12	AF56408	Dissolved	Water	6010D	769547
680-232195-13	AF56415	Dissolved	Water	6010D	769547
680-232195-14	AF56416	Dissolved	Water	6010D	769547
MB 680-769547/1-A	Method Blank	Total Recoverable	Water	6010D	769547
LCS 680-769547/2-A	Lab Control Sample	Total Recoverable	Water	6010D	769547



## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56421**

**Lab Sample ID: 680-232195-1**

Date Collected: 03/01/23 14:41

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:16
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 19:56
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:04

**Client Sample ID: AF56424**

**Lab Sample ID: 680-232195-2**

Date Collected: 03/01/23 13:37

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:20
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:00
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:08

**Client Sample ID: AF56439**

**Lab Sample ID: 680-232195-3**

Date Collected: 03/01/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:25
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:03
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:12

**Client Sample ID: AF56441**

**Lab Sample ID: 680-232195-4**

Date Collected: 03/01/23 11:45

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:30
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:06
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:16

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56414**

**Lab Sample ID: 680-232195-5**

Date Collected: 03/02/23 12:46

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:34
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:09
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:20

**Client Sample ID: AF56423**

**Lab Sample ID: 680-232195-6**

Date Collected: 03/02/23 09:52

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:39
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:19
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:24

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232195-7**

Date Collected: 03/02/23 10:56

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:44
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:22
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:28

**Client Sample ID: AF56419**

**Lab Sample ID: 680-232195-8**

Date Collected: 03/07/23 14:51

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:48
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:25
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:33

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56425**

**Lab Sample ID: 680-232195-9**

Date Collected: 03/07/23 12:49

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:53
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:29
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:37

**Client Sample ID: AF56426**

**Lab Sample ID: 680-232195-10**

Date Collected: 03/07/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:12
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:32
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:41

**Client Sample ID: AF56427**

**Lab Sample ID: 680-232195-11**

Date Collected: 03/07/23 10:27

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:16
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:35
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:53

**Client Sample ID: AF56408**

**Lab Sample ID: 680-232195-12**

Date Collected: 03/08/23 13:38

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:21
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:38
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:57

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56415**

**Lab Sample ID: 680-232195-13**

Date Collected: 03/08/23 15:13

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:26
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:42
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 09:01

**Client Sample ID: AF56416**

**Lab Sample ID: 680-232195-14**

Date Collected: 03/08/23 10:09

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:31
Dissolved	Prep	3005A			769547	BCB	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:45
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 09:05

**Client Sample ID: AF56417**

**Lab Sample ID: 680-232195-15**

Date Collected: 03/08/23 10:14

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:35
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:12
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:07

**Client Sample ID: AF56429**

**Lab Sample ID: 680-232195-16**

Date Collected: 03/08/23 12:12

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:40
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:22
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:19

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56394**

**Lab Sample ID: 680-232195-17**

Date Collected: 02/14/23 12:33

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:54
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:25
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:23

**Client Sample ID: AF56331**

**Lab Sample ID: 680-232195-18**

Date Collected: 02/14/23 13:51

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:26
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:29
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:27

**Client Sample ID: AF56332**

**Lab Sample ID: 680-232195-19**

Date Collected: 02/14/23 15:22

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:35
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:38
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:31

**Client Sample ID: AF56395**

**Lab Sample ID: 680-232195-20**

Date Collected: 02/15/23 11:36

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:39
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:42
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:35

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56396**

**Lab Sample ID: 680-232195-21**

Date Collected: 02/15/23 13:21

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:44
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:51
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:54
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:24

**Client Sample ID: AF56397**

**Lab Sample ID: 680-232195-22**

Date Collected: 02/16/23 10:53

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:49
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:45
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:46
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:16

**Client Sample ID: AF56400**

**Lab Sample ID: 680-232195-23**

Date Collected: 02/16/23 12:55

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:53
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:48
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:50
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:20

**Client Sample ID: AF56442**

**Lab Sample ID: 680-232195-24**

Date Collected: 02/16/23 14:07

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:12

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56442**

**Lab Sample ID: 680-232195-24**

Date Collected: 02/16/23 14:07

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:55
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:58
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:28

**Client Sample ID: AF56443**

**Lab Sample ID: 680-232195-25**

Date Collected: 02/16/23 14:12

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:17
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:58
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:02
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:32

**Client Sample ID: AF56402**

**Lab Sample ID: 680-232195-26**

Date Collected: 02/27/23 12:47

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:21
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:01
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:06
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:36

**Client Sample ID: AF56403**

**Lab Sample ID: 680-232195-27**

Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:26
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:04

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56403**

**Lab Sample ID: 680-232195-27**

Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:10
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:40

**Client Sample ID: AF56404**

**Lab Sample ID: 680-232195-28**

Date Collected: 02/27/23 10:02

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:31
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:08
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:14
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:43

**Client Sample ID: AF56434**

**Lab Sample ID: 680-232195-29**

Date Collected: 02/27/23 15:44

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:36
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:17
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:18
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:47

**Client Sample ID: AF56433**

**Lab Sample ID: 680-232195-30**

Date Collected: 02/28/23 12:58

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:41
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:21
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:22



# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56433**

**Lab Sample ID: 680-232195-30**

Date Collected: 02/28/23 12:58

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:03

**Client Sample ID: AF56435**

**Lab Sample ID: 680-232195-31**

Date Collected: 02/28/23 11:44

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:45
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:24
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:33
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:07

**Client Sample ID: AF56436**

**Lab Sample ID: 680-232195-32**

Date Collected: 02/28/23 10:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:50
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:30
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:41
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:15

**Client Sample ID: AF56437**

**Lab Sample ID: 680-232195-33**

Date Collected: 02/28/23 10:24

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:55
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:27
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:37
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:11

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56438**

**Lab Sample ID: 680-232195-34**

Date Collected: 02/28/23 14:31

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:13
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:21
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:43

**Client Sample ID: AF56409**

**Lab Sample ID: 680-232195-35**

Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:18
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:24
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 12:16
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:47

**Client Sample ID: AF56410**

**Lab Sample ID: 680-232195-36**

Date Collected: 03/06/23 12:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:23
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:08
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 12:13
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:27

**Client Sample ID: AF56411**

**Lab Sample ID: 680-232195-37**

Date Collected: 03/06/23 11:08

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:37
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:37

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56411**

**Lab Sample ID: 680-232195-37**

Date Collected: 03/06/23 11:08

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 12:19
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 23:02

**Client Sample ID: AF56412**

**Lab Sample ID: 680-232195-38**

Date Collected: 03/06/23 15:15

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:55
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:30
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:55

**Client Sample ID: AF56413**

**Lab Sample ID: 680-232195-39**

Date Collected: 03/06/23 13:41

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:18
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:27
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:51

**Client Sample ID: AF56430**

**Lab Sample ID: 680-232195-40**

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:23
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:11
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:31

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56406**

**Lab Sample ID: 680-232195-41**

Date Collected: 03/09/23 10:29

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:28
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:40
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 23:06

**Client Sample ID: AF56407**

**Lab Sample ID: 680-232195-42**

Date Collected: 03/09/23 10:34

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:32
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:43
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 23:10

**Client Sample ID: AF56418**

**Lab Sample ID: 680-232195-43**

Date Collected: 03/09/23 12:07

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:37
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:34
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:59

**Client Sample ID: AF56422**

**Lab Sample ID: 680-232195-44**

Date Collected: 03/09/23 13:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:42
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:05
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:23

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858  
 EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Chain of Custody



DISSOLVED

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JMO2.09. G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	DISSOLVED METALS	SCALE ELEMENTS
AF56421	WAP-21	3/1/23	1441	EDM ML	1	P	G	GW	2	SEE SHEET FOR RLS	X	X
24	WAP-24		1337							METHOD 6020		
39	WLF-A2-1		1022									
41	WLF-A2-2		1145									
AF56414	WAP-15	3/2/23	1246				G	GW				
23	WAP-23		0952									
28	WAP-27		1056									



Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>S. Brown</i>	35594	3/16/23	1300	<i>Kurtma/MS</i>		3/19/23	10:30
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
TEMP (°C): 12.3 Initial: 12.3  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> Ag <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> As <input type="checkbox"/> B <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Be <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Cr	<input type="checkbox"/> Cu <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> Li <input type="checkbox"/> Mg <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Ni <input checked="" type="checkbox"/> Pb	<input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Se <input type="checkbox"/> Sn <input type="checkbox"/> Sr <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Tl <input type="checkbox"/> V <input checked="" type="checkbox"/> Zn <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <input type="checkbox"/> Gypsum (all below) <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)



# Chain of Custody



DISSOLVED

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	DISSOLVED METALS - SEE BELOW
AF5649	WAP-19	3/7/23	1451	EDM ML		P	G	GW	2	SEE SHEET FOR RLS	X
25	WAP-25		1249							0020	
26	WAP-26		1022								
27	WAP-26D		1027								
AF56408	WAP-13	3/8/23	1338								
15	WAP-16		1513								
6	WAP-7		1009								
7	WAP-17D		1014								
29	WAP-28		1212								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35597	3/10/23	300				

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input checked="" type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O5 6=Other (Specify)



# Chain of Custody



DISSOLVED

Customer Email/Report Recipient: L.NDA.WILLIAMS @santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JMO2.09-GW.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	DISSOLVED METALS	SEE BELOW
AF56394	WAP-1	2/14/23	1238	ZDM ML	1	P	G	GW	2	SEE SHEET FOR RLS	X	
31	WSW-1		1351							6620		
32	WSW-A1-1		1522									
AF56395	WAP-2	2/15/23	1136									
96	WAP-3		1321									
AF56397	WAP-4	2/16/23	1053	ZDM MDG								
400	WAP-7		1255									
442	WLF-A2-6		1407									
443	WLF-A2-6D		1442									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35594	3/16/23	1300				

Sample Receiving (Internal Use Only)

TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all)			Nutrients		MISC.		Gypsum		Coal		Flyash		Oil	
<input checked="" type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.	<input type="checkbox"/> %Moisture	<input type="checkbox"/> Color	<input type="checkbox"/> %Moisture	<input type="checkbox"/> Color
<input checked="" type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Acidity	<input type="checkbox"/> Mineral	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Acidity
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> E. Coli	<input type="checkbox"/> AIM	<input type="checkbox"/> Total metals	<input type="checkbox"/> Ash	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Dielectric Strength	<input type="checkbox"/> BTUs	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> IFT
<input type="checkbox"/> B	<input checked="" type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> pH	<input type="checkbox"/> TOC	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> BTUs	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dissolved Gases	<input type="checkbox"/> CHN	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> IFT
<input checked="" type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> NO3	<input type="checkbox"/> pH	<input type="checkbox"/> Br	<input type="checkbox"/> Total metals	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> CHN	<input type="checkbox"/> Sieve	<input type="checkbox"/> Used Oil	<input type="checkbox"/> CHN	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Flashpoint
<input checked="" type="checkbox"/> Be	<input type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 226	<input type="checkbox"/> NO3	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> NPDES	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> Metals in oil
<input checked="" type="checkbox"/> Ca	<input checked="" type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> Rad 228	<input type="checkbox"/> Br	<input type="checkbox"/> Sulfites	<input type="checkbox"/> % Moisture	<input type="checkbox"/> HGI	<input type="checkbox"/> HGI	<input type="checkbox"/> NPDES	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)	<input type="checkbox"/> Fineness	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> TX
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input checked="" type="checkbox"/> Zn		<input type="checkbox"/> PCB	<input type="checkbox"/> NO3	<input type="checkbox"/> Sulfites	<input type="checkbox"/> % Moisture	<input type="checkbox"/> pH	<input type="checkbox"/> Fineness	<input type="checkbox"/> NPDES	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)	<input type="checkbox"/> pH	<input type="checkbox"/> As	<input type="checkbox"/> TX
<input checked="" type="checkbox"/> Co	<input checked="" type="checkbox"/> Ni	<input type="checkbox"/> Hg			<input type="checkbox"/> SO4	<input type="checkbox"/> Chlorides	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> NPDES	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)	<input type="checkbox"/> TSS	<input type="checkbox"/> As	<input type="checkbox"/> TX
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI				<input type="checkbox"/> Particle Size	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> NPDES	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)	<input type="checkbox"/> TSS	<input type="checkbox"/> As	<input type="checkbox"/> TX

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=4°C 2=HNO<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4=HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> 6=Other (Specify)



# Chain of Custody



DISSOLVED

Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09.G81.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass/ Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	DISSOLVED METALS	SEE BELOW
AF56402	WAP-9	2/27/23	1247	EDM ML	1	P	G	GW	2	SEE SHEET FOR RLS.	X	
03	WAP-10		0957							6020		
04	WAP-10D		1002									
434	WLF-A1-2		1544									
AF56433	WLF-A1-1	2/28/23	1258									
25	WLF-A1-3		1144									
36	WLF-A1-4		1019									
37	WLF-A1-4D		1024									
38	WLF-A1-5		1421									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35574	3/16/23	1300				

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_

Correct pH: Yes  No

Preservative Lot#:

Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> pH <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=4°C 2=HNO<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> 6-Other (Specify)





# Chain of Custody



DISSOLVED

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      Project/Task/Unit #: 25915 / JMO2 09. G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass/ G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	DI - CHECK SEE BELOW
AF56409	WAP-14	3/6/23	1214	EDM ML	1	P	G	GW	2	SEE SHEET FOR RLS.	X
10	WAP-14D		1219							6022	
11	WAP-14A		1108								
12	WAP-14B		1515								
13	WAP-14C		1341								
130	WAP-29		1010								
AF56406	WAP-12	3/9/23	1029								
07	WAP-2D		1034								
18	WAP-8		1207								
22	WAP-22		1319								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35574	3/10/23	800				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



**Table of Reporting Limits for Groundwater  
Samples-- Metals Only**

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	—
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	—	—
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	—	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	—	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	—
Iron	ug/L	300	—
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	—	—
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	—	—
Potassium	mg/L	—	—
Selenium	ug/L	50	5
Sodium	mg/L	—	—
Thallium	ug/L	2	1
Zinc	ug/L	5000	—

**Eurofins Savannah**

5102 LaRoche Avenue  
Savannah, GA 31404  
Phone: 912-354-7858 Fax: 912-352-0165

**Chain of Custody Record**



Environment Testing



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab PM Lanier, Jerry A	Carrier Tracking No(s)	COC No: 680-731060.1
Shipping/Receiving		Phone: Jerry.Lanier@eurofins.com	State of Origin: South Carolina	Page Page 1 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Florida, State - South Carolina, State Program ...		Job # 680-232195-1
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		<b>Analysis Requested</b>		
Due Date Requested: 3/27/2023		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2OHS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:		
TAT Requested (days):		Perform MS/MSD (Yes or No)		
PO #:		Field Filtered Sample (Yes or No)		
WO #:		6010D/FIELD_FLTRD (MOD) Diss.Lithium by ICP		
Project # 68008190		Total Number of Containers		
SSOW#:		Special Instructions/Note:		
<b>Sample Identification - Client ID (Lab ID)</b>				
AF56421 (680-232195-1)	Sample Date: 3/1/23	Sample Time: 14:41 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56424 (680-232195-2)	Sample Date: 3/1/23	Sample Time: 13:37 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56439 (680-232195-3)	Sample Date: 3/1/23	Sample Time: 10:22 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56441 (680-232195-4)	Sample Date: 3/1/23	Sample Time: 11:45 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56414 (680-232195-5)	Sample Date: 3/2/23	Sample Time: 12:46 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56423 (680-232195-6)	Sample Date: 3/2/23	Sample Time: 09:52 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56428 (680-232195-7)	Sample Date: 3/2/23	Sample Time: 10:56 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56419 (680-232195-8)	Sample Date: 3/7/23	Sample Time: 14:51 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
AF56425 (680-232195-9)	Sample Date: 3/7/23	Sample Time: 12:49 Eastern	Sample Type (C=comp, G=grab): Water	Matrix (Water, Seawater, Other): Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>				
<b>Possible Hazard Identification</b>				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify) _____				
Empty Kit Relinquished by: _____ Date: _____				
Relinquished by: _____ Date/Time: _____ Company: _____				
Relinquished by: <b>FedEx</b> Date/Time: _____ Company: _____				
Relinquished by: _____ Date/Time: _____ Company: _____				
Custody Seals Intact: _____ Custody Seal No.: _____				
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____				
<p>Method of Shipment: _____</p> Received by: _____ Date/Time: _____ Company: _____ Received by: <b>Sharkley - Savannah</b> Date/Time: <b>3/27/23 0910</b> Company: <b>ETA STL</b> Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks: _____				



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab PM Lanier, Jerry A	Carner Tracking No(s)	COC No: 680-731060.2
Client Contact: Earth City		Phone: Jerry Lanier@eurofins.com	State of Origin: South Carolina	Page: Page 2 of 5
Shipping/Receiving: Earth City		E-Mail: Jerry Lanier@eurofins.com	Job #: 680-232195-1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program ...		
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
City: Earth City		<b>Analysis Requested</b>		
State, Zip: MO, 63045		6010/D/FIELD_FLTRD (MOD) Diss Lithium by ICP		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		
Email:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
Project Name: 125915/JM02.09.G01.1/36500		Total Number of containers		
Site: SSOW#		Special Instructions/Note:		
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (Water, Seawater, Overstabil, Br-Tissue, Air)</b>
AF56426 (680-232195-10)	3/7/23	10:22 Eastern	Water	Water
AF56427 (680-232195-11)	3/7/23	10:27 Eastern	Water	Water
AF56408 (680-232195-12)	3/8/23	13:38 Eastern	Water	Water
AF56415 (680-232195-13)	3/8/23	15:13 Eastern	Water	Water
AF56416 (680-232195-14)	3/8/23	10:09 Eastern	Water	Water
AF56417 (680-232195-15)	3/8/23	10:14 Eastern	Water	Water
AF56429 (680-232195-16)	3/8/23	12:12 Eastern	Water	Water
AF56394 (680-232195-17)	2/14/23	12:33 Eastern	Water	Water
AF56331 (680-232195-18)	2/14/23	13:51 Eastern	Water	Water

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/analyte being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

**Possible Hazard Identification**  
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: **FEDEx** Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

Δ Yes Δ No

Special Instructions/QC Requirements:  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Received by: **Sharna Sharkey** Date/Time: **3/22/23 09:10** Company: **ETA ST**

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Lanier, Jerry A	Carrier Tracking No(s): 680-731060.3
Client Contact: Shipping/Receiving		E-Mail: Jerry.Lanier@et.eurofins.com	State of Origin: South Carolina
Company: TestAmerica Laboratories, Inc.		Job #: 680-232195-1	
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City: Earth City		M - Hexane	
State, Zip: MO, 63045		N - None	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		O - AsNaO2	
Email:		P - Na2O4S	
Project Name: 125915/JM02.09.G01.1/36500		Q - Na2SO3	
Site:		R - Na2S2O3	
		S - H2SO4	
		T - TSP Dodecahydrate	
		U - Acetone	
		V - MCAA	
		W - pH 4-5	
		Y - Trizma	
		Z - other (specify)	
<b>Analysis Requested</b>			
Due Date Requested: 3/27/2023	60100/FIELD_FLTRD (MOD) Diss.Lithium by ICP	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
TAT Requested (days):	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
PO #:	Sample Date	Sample Time	Matrix (W=water, S=solid, O=water/oil, B1=Issue, A=Air)
WO #:	Sample Date	Sample Time	Preservation Code:
Project #:	Sample Date	Sample Time	Special Instructions/Note:
SSOW#:	Sample Date	Sample Time	Total Number of Containers
	2/14/23	15:22 Eastern	Water
	2/15/23	11:36 Eastern	Water
	2/15/23	13:21 Eastern	Water
	2/16/23	10:53 Eastern	Water
	2/16/23	12:55 Eastern	Water
	2/16/23	14:07 Eastern	Water
	2/16/23	14:12 Eastern	Water
	2/16/23	12:47 Eastern	Water
	2/27/23	09:57 Eastern	Water
	2/27/23	Eastern	Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC</p>			
<b>Possible Hazard Identification</b>			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements:			
Method of Shipment:			
Received by: _____ Date/Time: _____ Company: _____			
Received by: <i>Wiana Shanbary</i> Date/Time: <i>3/22/23 09:10</i> Company: <i>ETW</i>			
Received by: _____ Date/Time: _____ Company: _____			
Cooler Temperature(s) °C and Other Remarks:			
Custody Seal No.: _____			
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ			

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Lanier, Jerry A	Carrier Tracking No(s): 680-731060.4
Client Contact Shipping/Receiving		Phone: Jerry.Lanier@et.eurofins.com	State of Origin: South Carolina
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Florida, State - South Carolina; State Program ...	
Address: 13715 Rider Trail North,		Job #: 680-232195-1	
City: Earth City		<b>Preservation Codes:</b>	
State, Zip: MO, 63045		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (Specify)	
Email:			
Project Name: 125915/JM02.09.G01.1/36500			
Site: SSOW#			
<b>Due Date Requested:</b> 3/27/2023			
<b>TAT Requested (days):</b>			
PO #:			
WO #:			
Sample Date		Sample Time	Sample Type (C=Comp, G=grab)
Matrix (W=water, S=solid, O=water, A=air, B=issue, A=air)		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
6010D/FIELD_FLTRD (MOD) Diss Lithium by ICP		Total Number of Containers	
Special Instructions/Note:			
AF56404 (680-232195-28)	2/27/23	10:02 Eastern	Water
AF56434 (680-232195-29)	2/27/23	15:44 Eastern	Water
AF56433 (680-232195-30)	2/28/23	12:58 Eastern	Water
AF56435 (680-232195-31)	2/28/23	11:44 Eastern	Water
AF56436 (680-232195-32)	2/28/23	10:19 Eastern	Water
AF56437 (680-232195-33)	2/28/23	10:24 Eastern	Water
AF56438 (680-232195-34)	2/28/23	14:31 Eastern	Water
AF56409 (680-232195-35)	3/6/23	12:14 Eastern	Water
AF56410 (680-232195-36)	3/6/23	12:19 Eastern	Water

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

**Possible Hazard Identification**

Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_  
 Primary Deliverable Rank: 1

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements: \_\_\_\_\_

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM Lanier, Jerry A	Carrier Tracking No(s)	COC No: 680-731060 5
Client Contact Shipping/Receiving		E-Mail Jerry.Lanier@et.eurofins.com	State of Origin South Carolina	Page Page 5 of 5
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Florida, State - South Carolina, State Program		
Address 13715 Rider Trail North,		Job # 680-232195-1		
City: Earth City		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
State, Zip MO, 63045		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone 314-298-8566(Tel) 314-298-8757(Fax)		Analysis Requested		
Email		Total Number of Containers		
Project Name 125915/JM02 09.G01.1/36500		6010FIELD_FLTRD (MOD) Diss.Lithium by ICP		
Site SSOW#		Perform MSM/SD (Yes or No)		
Due Date Requested: 3/27/2023		Field Filtered Sample (Yes or No)		
TAT Requested (days):		Preservation Code:		
PO #		Sample Date		
WO #		Sample Time		
Project # 68008190		Sample Type (C=Comp, G=grab)		
Matrix (W=water, S=solid, O=oil, T=tissue, A=air)		Matrix		
Sample Identification - Client ID (Lab ID)		Sample Time		
AF56411 (680-232195-37)	3/6/23	11:08 Eastern	Water	X
AF56412 (680-232195-38)	3/6/23	15:15 Eastern	Water	X
AF56413 (680-232195-39)	3/6/23	13:41 Eastern	Water	X
AF56430 (680-232195-40)	3/6/23	10:10 Eastern	Water	X
AF56406 (680-232195-41)	3/9/23	10:29 Eastern	Water	X
AF56407 (680-232195-42)	3/9/23	10:34 Eastern	Water	X
AF56418 (680-232195-43)	3/9/23	12:07 Eastern	Water	X
AF56422 (680-232195-44)	3/9/23	13:19 Eastern	Water	X
Special Instructions/Note: <b>(44)</b>				
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is for <b>ware</b> under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC				
<b>Possible Hazard Identification</b>				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1				
Empty Kit Relinquished by: Date:				
Relinquished by: Date/Time: Company:				
Relinquished by: Date/Time: Company:				
Relinquished by: Date/Time: Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks:				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				
Special Instructions/QC Requirements:				
Received by: Date/Time: Company:				
Received by: <i>Trishna Sharkey</i> Date/Time: <i>3/22/23 09</i> Company: <i>06745 IL</i>				
Received by: Date/Time: Company:				

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-232195-1

**Login Number: 232195**

**List Number: 1**

**Creator: Givens, Keshia**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-232195-1

**Login Number: 232195**

**List Number: 2**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 03/22/23 01:48 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 3/28/2023 6:36:20 PM

## JOB DESCRIPTION

125915/JM02.09.G01.1/36500

## JOB NUMBER

680-232196-1

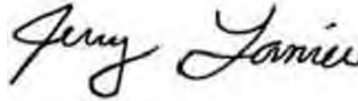
# Eurofins Savannah

## Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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**Job ID: 680-232196-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative**  
**680-232196-1**

**Receipt**

The samples were received on 3/17/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.3°C

**Metals**

Method 6010D: preparation batch 160-604815 Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: AF56407 (680-232196-26).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-232196-1	AF56394	Water	02/14/23 12:33	03/17/23 10:30
680-232196-2	AF56331	Water	02/14/23 13:51	03/17/23 10:30
680-232196-3	AF56332	Water	02/14/23 15:22	03/17/23 10:30
680-232196-4	AF56395	Water	02/15/23 11:36	03/17/23 10:30
680-232196-5	AF56396	Water	02/15/23 13:21	03/17/23 10:30
680-232196-6	AF56397	Water	02/16/23 10:53	03/17/23 10:30
680-232196-7	AF56400	Water	02/16/23 12:55	03/17/23 10:30
680-232196-8	AF56442	Water	02/16/23 14:07	03/17/23 10:30
680-232196-9	AF56443	Water	02/16/23 14:12	03/17/23 10:30
680-232196-10	AF56402	Water	02/27/23 12:47	03/17/23 10:30
680-232196-11	AF56403	Water	02/27/23 09:57	03/17/23 10:30
680-232196-12	AF56404	Water	02/27/23 10:02	03/17/23 10:30
680-232196-13	AF56434	Water	02/27/23 15:44	03/17/23 10:30
680-232196-14	AF56433	Water	02/28/23 12:58	03/17/23 10:30
680-232196-15	AF56435	Water	02/28/23 11:44	03/17/23 10:30
680-232196-16	AF56436	Water	02/28/23 10:19	03/17/23 10:30
680-232196-17	AF56437	Water	02/28/23 10:24	03/17/23 10:30
680-232196-18	AF56438	Water	02/28/23 14:31	03/17/23 10:30
680-232196-19	AF56409	Water	03/06/23 12:14	03/17/23 10:30
680-232196-20	AF56410	Water	03/06/23 12:19	03/17/23 10:30
680-232196-21	AF56411	Water	03/06/23 11:08	03/17/23 10:30
680-232196-22	AF56412	Water	03/06/23 15:15	03/17/23 10:30
680-232196-23	AF56413	Water	03/06/23 13:41	03/17/23 10:30
680-232196-24	AF56430	Water	03/06/23 10:10	03/17/23 10:30
680-232196-25	AF56406	Water	03/09/23 10:29	03/17/23 10:30
680-232196-26	AF56407	Water	03/09/23 10:34	03/17/23 10:30
680-232196-27	AF56418	Water	03/09/23 12:07	03/17/23 10:30
680-232196-28	AF56422	Water	03/09/23 13:19	03/17/23 10:30
680-232196-29	AF56419	Water	03/07/23 14:51	03/17/23 10:30
680-232196-30	AF56425	Water	03/07/23 12:49	03/17/23 10:30
680-232196-31	AF56426	Water	03/07/23 10:22	03/17/23 10:30
680-232196-32	AF56427	Water	03/07/23 10:27	03/17/23 10:30
680-232196-33	AF56408	Water	03/08/23 13:38	03/17/23 10:30
680-232196-34	AF56415	Water	03/08/23 15:13	03/17/23 10:30
680-232196-35	AF56416	Water	03/08/23 10:09	03/17/23 10:30
680-232196-36	AF56417	Water	03/08/23 10:14	03/17/23 10:30
680-232196-37	AF56429	Water	03/08/23 12:12	03/17/23 10:30
680-232196-38	AF56421	Water	03/01/23 14:41	03/17/23 10:30
680-232196-39	AF56428	Water	03/01/23 13:37	03/17/23 10:30
680-232196-40	AF56439	Water	03/01/23 10:22	03/17/23 10:30
680-232196-41	AF56441	Water	03/01/23 11:45	03/17/23 10:30
680-232196-42	AF56414	Water	03/02/23 12:46	03/17/23 10:30
680-232196-43	AF56423	Water	03/02/23 10:56	03/17/23 10:30
680-232196-44	AF56428	Water	03/02/23 00:00	03/17/23 10:30

# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SL
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3010A	Preparation, Total Metals	SW846	EET SL
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566





# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56394

### Lab Sample ID: 680-232196-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	10600		500		ug/L	1		6010D	Total Recoverable
Iron	3060		100		ug/L	1		6010D	Total Recoverable
Magnesium	1000		500		ug/L	1		6010D	Total Recoverable
Sodium	5460		2000		ug/L	1		6010D	Total Recoverable
Aluminum	1280		100		ug/L	1		6020B	Total Recoverable
Arsenic	5.88		3.00		ug/L	1		6020B	Total Recoverable
Barium	76.0		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.705		0.500		ug/L	1		6020B	Total Recoverable
Zinc	24.9		20.0		ug/L	1		6020B	Total Recoverable
Manganese	27.1		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56331

### Lab Sample ID: 680-232196-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2790		500		ug/L	1		6010D	Total Recoverable
Iron	251		100		ug/L	1		6010D	Total Recoverable
Magnesium	902		500		ug/L	1		6010D	Total Recoverable
Sodium	2670		2000		ug/L	1		6010D	Total Recoverable
Aluminum	845		100		ug/L	1		6020B	Total Recoverable
Barium	31.7		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.52		0.500		ug/L	1		6020B	Total Recoverable
Manganese	44.6		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56332

### Lab Sample ID: 680-232196-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	85600		500		ug/L	1		6010D	Total Recoverable
Iron	5130		100		ug/L	1		6010D	Total Recoverable
Magnesium	2660		500		ug/L	1		6010D	Total Recoverable
Potassium	2030		1000		ug/L	1		6010D	Total Recoverable
Sodium	11300		2000		ug/L	1		6010D	Total Recoverable
Aluminum	1170		100		ug/L	1		6020B	Total Recoverable
Barium	88.5		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56332 (Continued)

Lab Sample ID: 680-232196-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	46.7		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56395

Lab Sample ID: 680-232196-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	367000		500		ug/L	1		6010D	Total Recoverable
Iron	5110		100		ug/L	1		6010D	Total Recoverable
Magnesium	45200		500		ug/L	1		6010D	Total Recoverable
Potassium	9860		1000		ug/L	1		6010D	Total Recoverable
Sodium	74600		2000		ug/L	1		6010D	Total Recoverable
Aluminum	948		100		ug/L	1		6020B	Total Recoverable
Arsenic	23.2		3.00		ug/L	1		6020B	Total Recoverable
Barium	167		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	1.96		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	19.7		0.500		ug/L	1		6020B	Total Recoverable
Nickel	11.6		5.00		ug/L	1		6020B	Total Recoverable
Manganese	721		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56396

Lab Sample ID: 680-232196-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	225000		500		ug/L	1		6010D	Total Recoverable
Iron	25400		100		ug/L	1		6010D	Total Recoverable
Magnesium	14300		500		ug/L	1		6010D	Total Recoverable
Potassium	1980		1000		ug/L	1		6010D	Total Recoverable
Sodium	42300		2000		ug/L	1		6010D	Total Recoverable
Barium	146		5.00		ug/L	1		6020B	Total Recoverable
Manganese	213		5.00		ug/L	1		6020B	Total Recoverable
Mercury	0.259	H H3	0.200		ug/L	1		7470A	Total/NA

### Client Sample ID: AF56397

Lab Sample ID: 680-232196-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	54300		500		ug/L	1		6010D	Total Recoverable
Iron	731		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56397 (Continued)

### Lab Sample ID: 680-232196-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	4040		500		ug/L	1		6010D	Total Recoverable
Potassium	1990		1000		ug/L	1		6010D	Total Recoverable
Sodium	17300		2000		ug/L	1		6010D	Total Recoverable
Barium	39.4		5.00		ug/L	1		6020B	Total Recoverable
Zinc	309		20.0		ug/L	1		6020B	Total Recoverable
Manganese	112		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56400

### Lab Sample ID: 680-232196-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	262000		500		ug/L	1		6010D	Total Recoverable
Iron	789		100		ug/L	1		6010D	Total Recoverable
Magnesium	3890		500		ug/L	1		6010D	Total Recoverable
Potassium	2320		1000		ug/L	1		6010D	Total Recoverable
Sodium	13800		2000		ug/L	1		6010D	Total Recoverable
Aluminum	111		100		ug/L	1		6020B	Total Recoverable
Barium	42.1		5.00		ug/L	1		6020B	Total Recoverable
Manganese	18.6		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56442

### Lab Sample ID: 680-232196-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	166000		500		ug/L	1		6010D	Total Recoverable
Iron	450		100		ug/L	1		6010D	Total Recoverable
Magnesium	7730		500		ug/L	1		6010D	Total Recoverable
Potassium	4290		1000		ug/L	1		6010D	Total Recoverable
Sodium	21900		2000		ug/L	1		6010D	Total Recoverable
Barium	32.6		5.00		ug/L	1		6020B	Total Recoverable
Manganese	58.2		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56443

### Lab Sample ID: 680-232196-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160000		500		ug/L	1		6010D	Total Recoverable
Iron	302		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56443 (Continued)

### Lab Sample ID: 680-232196-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	7590		500		ug/L	1		6010D	Total Recoverable
Potassium	4050		1000		ug/L	1		6010D	Total Recoverable
Sodium	20700		2000		ug/L	1		6010D	Total Recoverable
Barium	33.8		5.00		ug/L	1		6020B	Total Recoverable
Manganese	57.3		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56402

### Lab Sample ID: 680-232196-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	204000		500		ug/L	1		6010D	Total Recoverable
Iron	23500		100		ug/L	1		6010D	Total Recoverable
Magnesium	24400		500		ug/L	1		6010D	Total Recoverable
Potassium	11400		1000		ug/L	1		6010D	Total Recoverable
Sodium	35500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	386		100		ug/L	1		6020B	Total Recoverable
Arsenic	31.0		3.00		ug/L	1		6020B	Total Recoverable
Barium	74.9		5.00		ug/L	1		6020B	Total Recoverable
Manganese	283		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56403

### Lab Sample ID: 680-232196-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	51.4		50.0		ug/L	1		6010D	Total/NA
Calcium	644000		500		ug/L	1		6010D	Total Recoverable
Iron	25200		100		ug/L	1		6010D	Total Recoverable
Magnesium	90300		500		ug/L	1		6010D	Total Recoverable
Potassium	28200		1000		ug/L	1		6010D	Total Recoverable
Sodium	155000		2000		ug/L	1		6010D	Total Recoverable
Barium	332		5.00		ug/L	1		6020B	Total Recoverable
Manganese	820		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56404

### Lab Sample ID: 680-232196-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	58.2		50.0		ug/L	1		6010D	Total/NA
Calcium	659000		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56404 (Continued)

### Lab Sample ID: 680-232196-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	25100		100		ug/L	1		6010D	Total Recoverable
Magnesium	91700		500		ug/L	1		6010D	Total Recoverable
Potassium	29000		1000		ug/L	1		6010D	Total Recoverable
Sodium	158000		2000		ug/L	1		6010D	Total Recoverable
Barium	325		5.00		ug/L	1		6020B	Total Recoverable
Manganese	800		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56434

### Lab Sample ID: 680-232196-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62900		500		ug/L	1		6010D	Total Recoverable
Iron	3180		100		ug/L	1		6010D	Total Recoverable
Magnesium	1950		500		ug/L	1		6010D	Total Recoverable
Sodium	4810		2000		ug/L	1		6010D	Total Recoverable
Aluminum	1430		100		ug/L	1		6020B	Total Recoverable
Barium	41.2		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.15		0.500		ug/L	1		6020B	Total Recoverable
Zinc	264		20.0		ug/L	1		6020B	Total Recoverable
Manganese	52.9		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56433

### Lab Sample ID: 680-232196-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	433000		500		ug/L	1		6010D	Total Recoverable
Iron	17100		100		ug/L	1		6010D	Total Recoverable
Magnesium	12200		500		ug/L	1		6010D	Total Recoverable
Potassium	5480		1000		ug/L	1		6010D	Total Recoverable
Sodium	10300		2000		ug/L	1		6010D	Total Recoverable
Aluminum	219		100		ug/L	1		6020B	Total Recoverable
Barium	51.1		5.00		ug/L	1		6020B	Total Recoverable
Manganese	1240		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Client Sample ID: AF56435

## Lab Sample ID: 680-232196-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20400		500		ug/L	1		6010D	Total Recoverable
Iron	863		100		ug/L	1		6010D	Total Recoverable
Magnesium	821		500		ug/L	1		6010D	Total Recoverable
Sodium	3070		2000		ug/L	1		6010D	Total Recoverable
Aluminum	3470		100		ug/L	1		6020B	Total Recoverable
Arsenic	8.46		3.00		ug/L	1		6020B	Total Recoverable
Barium	29.9		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.03		0.500		ug/L	1		6020B	Total Recoverable
Manganese	24.2		5.00		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF56436

## Lab Sample ID: 680-232196-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	85500		500		ug/L	1		6010D	Total Recoverable
Iron	1170		100		ug/L	1		6010D	Total Recoverable
Magnesium	1970		500		ug/L	1		6010D	Total Recoverable
Potassium	1460		1000		ug/L	1		6010D	Total Recoverable
Sodium	4490		2000		ug/L	1		6010D	Total Recoverable
Barium	35.5		5.00		ug/L	1		6020B	Total Recoverable
Zinc	53.3		20.0		ug/L	1		6020B	Total Recoverable
Manganese	81.1		5.00		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF56437

## Lab Sample ID: 680-232196-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92300		500		ug/L	1		6010D	Total Recoverable
Iron	1310		100		ug/L	1		6010D	Total Recoverable
Magnesium	1710		500		ug/L	1		6010D	Total Recoverable
Potassium	1230		1000		ug/L	1		6010D	Total Recoverable
Sodium	3600		2000		ug/L	1		6010D	Total Recoverable
Barium	36.2		5.00		ug/L	1		6020B	Total Recoverable
Manganese	88.0		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56438

### Lab Sample ID: 680-232196-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	287000		500		ug/L	1		6010D	Total Recoverable
Iron	1800		100		ug/L	1		6010D	Total Recoverable
Magnesium	28000		500		ug/L	1		6010D	Total Recoverable
Potassium	6740		1000		ug/L	1		6010D	Total Recoverable
Sodium	17500		2000		ug/L	1		6010D	Total Recoverable
Barium	34.9		5.00		ug/L	1		6020B	Total Recoverable
Manganese	495		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56409

### Lab Sample ID: 680-232196-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	104		50.0		ug/L	1		6010D	Total/NA
Calcium	1150000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	31700		500		ug/L	1		6010D	Total Recoverable
Potassium	15800		1000		ug/L	1		6010D	Total Recoverable
Sodium	144000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	13.8		3.00		ug/L	1		6020B	Total Recoverable
Barium	57.7		5.00		ug/L	1		6020B	Total Recoverable
Manganese	6.96		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56410

### Lab Sample ID: 680-232196-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	128		50.0		ug/L	1		6010D	Total/NA
Calcium	1130000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	30600		500		ug/L	1		6010D	Total Recoverable
Potassium	15400		1000		ug/L	1		6010D	Total Recoverable
Sodium	138000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	12.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	52.0		5.00		ug/L	1		6020B	Total Recoverable
Manganese	7.61		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56411

### Lab Sample ID: 680-232196-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	77.1		50.0		ug/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah



# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Client Sample ID: AF56411 (Continued)

## Lab Sample ID: 680-232196-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	796000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	40800		500		ug/L	1		6010D	Total Recoverable
Potassium	13000		1000		ug/L	1		6010D	Total Recoverable
Sodium	121000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	8.18		3.00		ug/L	1		6020B	Total Recoverable
Barium	95.4		5.00		ug/L	1		6020B	Total Recoverable
Zinc	199	F1	20.0		ug/L	1		6020B	Total Recoverable
Manganese	101		5.00		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF56412

## Lab Sample ID: 680-232196-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	51.5		50.0		ug/L	1		6010D	Total/NA
Calcium	701000		500		ug/L	1		6010D	Total Recoverable
Iron	14700		100		ug/L	1		6010D	Total Recoverable
Magnesium	30200		500		ug/L	1		6010D	Total Recoverable
Potassium	7240		1000		ug/L	1		6010D	Total Recoverable
Sodium	108000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	4.94		3.00		ug/L	1		6020B	Total Recoverable
Barium	165		5.00		ug/L	1		6020B	Total Recoverable
Manganese	355		5.00		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF56413

## Lab Sample ID: 680-232196-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	163000		500		ug/L	1		6010D	Total Recoverable
Iron	10100		100		ug/L	1		6010D	Total Recoverable
Magnesium	11200		500		ug/L	1		6010D	Total Recoverable
Potassium	5010		1000		ug/L	1		6010D	Total Recoverable
Sodium	72500		2000		ug/L	1		6010D	Total Recoverable
Barium	88.7		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.870		0.500		ug/L	1		6020B	Total Recoverable
Manganese	235		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56430**

**Lab Sample ID: 680-232196-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	446000		500		ug/L	1		6010D	Total Recoverable
Iron	33300		100		ug/L	1		6010D	Total Recoverable
Magnesium	72500		500		ug/L	1		6010D	Total Recoverable
Potassium	6540		1000		ug/L	1		6010D	Total Recoverable
Sodium	87200		2000		ug/L	1		6010D	Total Recoverable
Barium	36.3		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	6.51		0.500		ug/L	1		6020B	Total Recoverable
Manganese	3770		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56406**

**Lab Sample ID: 680-232196-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	203000		500		ug/L	1		6010D	Total Recoverable
Iron	1450		100		ug/L	1		6010D	Total Recoverable
Magnesium	18100		500		ug/L	1		6010D	Total Recoverable
Potassium	4990		1000		ug/L	1		6010D	Total Recoverable
Sodium	45500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	1940		100		ug/L	1		6020B	Total Recoverable
Barium	36.4		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.84		0.500		ug/L	1		6020B	Total Recoverable
Zinc	45.6		20.0		ug/L	1		6020B	Total Recoverable
Manganese	183		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56407**

**Lab Sample ID: 680-232196-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	207000		500		ug/L	1		6010D	Total Recoverable
Iron	1440		100		ug/L	1		6010D	Total Recoverable
Magnesium	18200		500		ug/L	1		6010D	Total Recoverable
Potassium	5150		1000		ug/L	1		6010D	Total Recoverable
Sodium	46200		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2090		100		ug/L	1		6020B	Total Recoverable
Barium	36.9		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56407 (Continued)

### Lab Sample ID: 680-232196-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	1.65		0.500		ug/L	1		6020B	Total Recoverable
Zinc	29.1		20.0		ug/L	1		6020B	Total Recoverable
Manganese	207		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56418

### Lab Sample ID: 680-232196-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	76.7		50.0		ug/L	1		6010D	Total/NA
Calcium	94400		500		ug/L	1		6010D	Total Recoverable
Iron	840		100		ug/L	1		6010D	Total Recoverable
Magnesium	7510		500		ug/L	1		6010D	Total Recoverable
Molybdenum	90.2		10.0		ug/L	1		6010D	Total Recoverable
Potassium	7420		1000		ug/L	1		6010D	Total Recoverable
Sodium	25200		2000		ug/L	1		6010D	Total Recoverable
Aluminum	134		100		ug/L	1		6020B	Total Recoverable
Arsenic	249		3.00		ug/L	1		6020B	Total Recoverable
Barium	127		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.17		0.500		ug/L	1		6020B	Total Recoverable
Manganese	113		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56422

### Lab Sample ID: 680-232196-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	250000		500		ug/L	1		6010D	Total Recoverable
Iron	15600		100		ug/L	1		6010D	Total Recoverable
Magnesium	9000		500		ug/L	1		6010D	Total Recoverable
Potassium	3920		1000		ug/L	1		6010D	Total Recoverable
Sodium	74400		2000		ug/L	1		6010D	Total Recoverable
Arsenic	8.53		3.00		ug/L	1		6020B	Total Recoverable
Barium	121		5.00		ug/L	1		6020B	Total Recoverable
Zinc	37.7		20.0		ug/L	1		6020B	Total Recoverable
Manganese	272		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56419**

**Lab Sample ID: 680-232196-29**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	234		50.0		ug/L	1		6010D	Total/NA
Calcium	601000		500		ug/L	1		6010D	Total Recoverable
Iron	19700		100		ug/L	1		6010D	Total Recoverable
Magnesium	88700		500		ug/L	1		6010D	Total Recoverable
Molybdenum	94.7		10.0		ug/L	1		6010D	Total Recoverable
Potassium	22200		1000		ug/L	1		6010D	Total Recoverable
Sodium	44900		2000		ug/L	1		6010D	Total Recoverable
Aluminum	672		100		ug/L	1		6020B	Total Recoverable
Arsenic	474		3.00		ug/L	1		6020B	Total Recoverable
Barium	83.9		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.29		0.500		ug/L	1		6020B	Total Recoverable
Zinc	24.2		20.0		ug/L	1		6020B	Total Recoverable
Manganese	1020		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56425**

**Lab Sample ID: 680-232196-30**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	68500		500		ug/L	1		6010D	Total Recoverable
Iron	3190		100		ug/L	1		6010D	Total Recoverable
Magnesium	2680		500		ug/L	1		6010D	Total Recoverable
Potassium	2060		1000		ug/L	1		6010D	Total Recoverable
Sodium	11100		2000		ug/L	1		6010D	Total Recoverable
Barium	9.10		5.00		ug/L	1		6020B	Total Recoverable
Copper	30.7		5.00		ug/L	1		6020B	Total Recoverable
Manganese	90.8		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56426**

**Lab Sample ID: 680-232196-31**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20600		500		ug/L	1		6010D	Total Recoverable
Iron	386		100		ug/L	1		6010D	Total Recoverable
Magnesium	1730		500		ug/L	1		6010D	Total Recoverable
Sodium	4370		2000		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56426 (Continued)

Lab Sample ID: 680-232196-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	164		100		ug/L	1		6020B	Total Recoverable
Barium	34.6		5.00		ug/L	1		6020B	Total Recoverable
Zinc	32.7		20.0		ug/L	1		6020B	Total Recoverable
Manganese	18.4		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56427

Lab Sample ID: 680-232196-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	22400		500		ug/L	1		6010D	Total Recoverable
Iron	392		100		ug/L	1		6010D	Total Recoverable
Magnesium	1820		500		ug/L	1		6010D	Total Recoverable
Sodium	4470		2000		ug/L	1		6010D	Total Recoverable
Aluminum	178		100		ug/L	1		6020B	Total Recoverable
Barium	34.5		5.00		ug/L	1		6020B	Total Recoverable
Manganese	19.9		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56408

Lab Sample ID: 680-232196-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	416000		500		ug/L	1		6010D	Total Recoverable
Iron	56000		100		ug/L	1		6010D	Total Recoverable
Magnesium	30400		500		ug/L	1		6010D	Total Recoverable
Potassium	2780		1000		ug/L	1		6010D	Total Recoverable
Sodium	127000		2000		ug/L	1		6010D	Total Recoverable
Barium	305		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.555		0.500		ug/L	1		6020B	Total Recoverable
Zinc	136		20.0		ug/L	1		6020B	Total Recoverable
Manganese	694		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56415

Lab Sample ID: 680-232196-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	202000		500		ug/L	1		6010D	Total Recoverable
Iron	8580		100		ug/L	1		6010D	Total Recoverable
Magnesium	19800		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56415 (Continued)

### Lab Sample ID: 680-232196-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	11800		1000		ug/L	1		6010D	Total Recoverable
Sodium	128000		2000		ug/L	1		6010D	Total Recoverable
Barium	86.8		5.00		ug/L	1		6020B	Total Recoverable
Zinc	39.3		20.0		ug/L	1		6020B	Total Recoverable
Manganese	203		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56416

### Lab Sample ID: 680-232196-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	260000		500		ug/L	1		6010D	Total Recoverable
Iron	1570		100		ug/L	1		6010D	Total Recoverable
Magnesium	38100		500		ug/L	1		6010D	Total Recoverable
Molybdenum	18.0		10.0		ug/L	1		6010D	Total Recoverable
Potassium	13800		1000		ug/L	1		6010D	Total Recoverable
Sodium	69700		2000		ug/L	1		6010D	Total Recoverable
Arsenic	85.9		3.00		ug/L	1		6020B	Total Recoverable
Barium	44.4		5.00		ug/L	1		6020B	Total Recoverable
Zinc	413		20.0		ug/L	1		6020B	Total Recoverable
Manganese	82.2		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56417

### Lab Sample ID: 680-232196-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	260000		500		ug/L	1		6010D	Total Recoverable
Iron	1740		100		ug/L	1		6010D	Total Recoverable
Magnesium	37600		500		ug/L	1		6010D	Total Recoverable
Molybdenum	21.2		10.0		ug/L	1		6010D	Total Recoverable
Potassium	13800		1000		ug/L	1		6010D	Total Recoverable
Sodium	69400		2000		ug/L	1		6010D	Total Recoverable
Arsenic	85.8		3.00		ug/L	1		6020B	Total Recoverable
Barium	45.4		5.00		ug/L	1		6020B	Total Recoverable
Zinc	27.9		20.0		ug/L	1		6020B	Total Recoverable
Manganese	84.4		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56429**

**Lab Sample ID: 680-232196-37**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	73100		500		ug/L	1		6010D	Total Recoverable
Iron	94400		100		ug/L	1		6010D	Total Recoverable
Magnesium	26000		500		ug/L	1		6010D	Total Recoverable
Sodium	82200		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2410		100		ug/L	1		6020B	Total Recoverable
Barium	258		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.985		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	18.6		0.500		ug/L	1		6020B	Total Recoverable
Lead	3.19		2.50		ug/L	1		6020B	Total Recoverable
Manganese	1540		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56421**

**Lab Sample ID: 680-232196-38**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	114000		500		ug/L	1		6010D	Total Recoverable
Iron	4430		100		ug/L	1		6010D	Total Recoverable
Magnesium	16900		500		ug/L	1		6010D	Total Recoverable
Potassium	10500		1000		ug/L	1		6010D	Total Recoverable
Sodium	21200		2000		ug/L	1		6010D	Total Recoverable
Aluminum	159		100		ug/L	1		6020B	Total Recoverable
Barium	37.8		5.00		ug/L	1		6020B	Total Recoverable
Manganese	128		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232196-39**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	199000		500		ug/L	1		6010D	Total Recoverable
Iron	714		100		ug/L	1		6010D	Total Recoverable
Magnesium	15200		500		ug/L	1		6010D	Total Recoverable
Potassium	6130		1000		ug/L	1		6010D	Total Recoverable
Sodium	38200		2000		ug/L	1		6010D	Total Recoverable
Barium	8.73		5.00		ug/L	1		6020B	Total Recoverable
Manganese	59.2		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56439**

**Lab Sample ID: 680-232196-40**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	138000		500		ug/L	1		6010D	Total Recoverable
Iron	9540		100		ug/L	1		6010D	Total Recoverable
Magnesium	14600		500		ug/L	1		6010D	Total Recoverable
Potassium	7790		1000		ug/L	1		6010D	Total Recoverable
Sodium	38300		2000		ug/L	1		6010D	Total Recoverable
Aluminum	1000		100		ug/L	1		6020B	Total Recoverable
Arsenic	42.3		3.00		ug/L	1		6020B	Total Recoverable
Barium	104		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	6.88		0.500		ug/L	1		6020B	Total Recoverable
Zinc	67.1		20.0		ug/L	1		6020B	Total Recoverable
Manganese	167		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56441**

**Lab Sample ID: 680-232196-41**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	121		50.0		ug/L	1		6010D	Total/NA
Calcium	191000		500		ug/L	1		6010D	Total Recoverable
Iron	5280		100		ug/L	1		6010D	Total Recoverable
Magnesium	10900		500		ug/L	1		6010D	Total Recoverable
Potassium	5500		1000		ug/L	1		6010D	Total Recoverable
Sodium	24400		2000		ug/L	1		6010D	Total Recoverable
Arsenic	182		3.00		ug/L	1		6020B	Total Recoverable
Barium	78.6		5.00		ug/L	1		6020B	Total Recoverable
Manganese	324		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF56414**

**Lab Sample ID: 680-232196-42**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	495000		500		ug/L	1		6010D	Total Recoverable
Iron	27800		100		ug/L	1		6010D	Total Recoverable
Magnesium	49100		500		ug/L	1		6010D	Total Recoverable
Potassium	6740		1000		ug/L	1		6010D	Total Recoverable
Sodium	101000		2000		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

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## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Client Sample ID: AF56414 (Continued)

### Lab Sample ID: 680-232196-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	413		5.00		ug/L	1		6020B	Total Recoverable
Manganese	626		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56423

### Lab Sample ID: 680-232196-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	104		50.0		ug/L	1		6010D	Total/NA
Calcium	429000		500		ug/L	1		6010D	Total Recoverable
Iron	16600		100		ug/L	1		6010D	Total Recoverable
Magnesium	52600		500		ug/L	1		6010D	Total Recoverable
Potassium	13400		1000		ug/L	1		6010D	Total Recoverable
Sodium	92700		2000		ug/L	1		6010D	Total Recoverable
Arsenic	363		3.00		ug/L	1		6020B	Total Recoverable
Barium	262		5.00		ug/L	1		6020B	Total Recoverable
Manganese	887		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF56428

### Lab Sample ID: 680-232196-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	102000		500		ug/L	1		6010D	Total Recoverable
Iron	89800		100		ug/L	1		6010D	Total Recoverable
Magnesium	23400		500		ug/L	1		6010D	Total Recoverable
Potassium	10800		1000		ug/L	1		6010D	Total Recoverable
Sodium	37100		2000		ug/L	1		6010D	Total Recoverable
Arsenic	88.3		3.00		ug/L	1		6020B	Total Recoverable
Barium	123		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.630		0.500		ug/L	1		6020B	Total Recoverable
Manganese	362		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56394**

**Lab Sample ID: 680-232196-1**

Date Collected: 02/14/23 12:33

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 13:50	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	10600		500		ug/L		03/20/23 09:08	03/21/23 22:21	1
Iron	3060		100		ug/L		03/20/23 09:08	03/21/23 22:21	1
Magnesium	1000		500		ug/L		03/20/23 09:08	03/21/23 22:21	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:21	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:21	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:21	1
Sodium	5460		2000		ug/L		03/20/23 09:08	03/21/23 22:21	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1280		100		ug/L		03/20/23 09:08	03/21/23 18:05	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Arsenic	5.88		3.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Barium	76.0		5.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:30	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:05	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Cobalt	0.705		0.500		ug/L		03/20/23 09:08	03/21/23 18:05	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:05	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:05	1
Zinc	24.9		20.0		ug/L		03/20/23 09:08	03/21/23 18:05	1
Manganese	27.1		5.00		ug/L		03/20/23 09:08	03/21/23 18:05	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 12:30	03/20/23 19:57	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56331**

**Lab Sample ID: 680-232196-2**

Date Collected: 02/14/23 13:51

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:13	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2790		500		ug/L		03/20/23 09:08	03/21/23 22:31	1
Iron	251		100		ug/L		03/20/23 09:08	03/21/23 22:31	1
Magnesium	902		500		ug/L		03/20/23 09:08	03/21/23 22:31	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:31	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:31	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:31	1
Sodium	2670		2000		ug/L		03/20/23 09:08	03/21/23 22:31	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	845		100		ug/L		03/20/23 09:08	03/21/23 18:16	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Barium	31.7		5.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:50	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:16	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Cobalt	1.52		0.500		ug/L		03/20/23 09:08	03/21/23 18:16	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:16	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:16	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:16	1
Manganese	44.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:16	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 12:45	03/21/23 13:40	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56332**

**Lab Sample ID: 680-232196-3**

Date Collected: 02/14/23 15:22

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:18	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	85600		500		ug/L		03/20/23 09:08	03/21/23 22:40	1
Iron	5130		100		ug/L		03/20/23 09:08	03/21/23 22:40	1
Magnesium	2660		500		ug/L		03/20/23 09:08	03/21/23 22:40	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:40	1
Potassium	2030		1000		ug/L		03/20/23 09:08	03/21/23 22:40	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:40	1
Sodium	11300		2000		ug/L		03/20/23 09:08	03/21/23 22:40	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1170		100		ug/L		03/20/23 09:08	03/21/23 18:20	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Barium	88.5		5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:54	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:20	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:20	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:20	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:20	1
Manganese	46.7		5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 12:45	03/21/23 13:20	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56395**

**Lab Sample ID: 680-232196-4**

Date Collected: 02/15/23 11:36

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:36	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	367000		500		ug/L		03/20/23 09:08	03/21/23 22:44	1
Iron	5110		100		ug/L		03/20/23 09:08	03/21/23 22:44	1
Magnesium	45200		500		ug/L		03/20/23 09:08	03/21/23 22:44	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:44	1
Potassium	9860		1000		ug/L		03/20/23 09:08	03/21/23 22:44	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:44	1
Sodium	74600		2000		ug/L		03/20/23 09:08	03/21/23 22:44	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	948		100		ug/L		03/20/23 09:08	03/21/23 18:24	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Arsenic	23.2		3.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Barium	167		5.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Beryllium	1.96		0.500		ug/L		03/20/23 09:08	03/22/23 09:58	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:24	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Cobalt	19.7		0.500		ug/L		03/20/23 09:08	03/21/23 18:24	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:24	1
Nickel	11.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:24	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:24	1
Manganese	721		5.00		ug/L		03/20/23 09:08	03/21/23 18:24	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 12:45	03/21/23 12:56	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56396**

**Lab Sample ID: 680-232196-5**

Date Collected: 02/15/23 13:21

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:41	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	225000		500		ug/L		03/20/23 09:08	03/21/23 22:47	1
Iron	25400		100		ug/L		03/20/23 09:08	03/21/23 22:47	1
Magnesium	14300		500		ug/L		03/20/23 09:08	03/21/23 22:47	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:47	1
Potassium	1980		1000		ug/L		03/20/23 09:08	03/21/23 22:47	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:47	1
Sodium	42300		2000		ug/L		03/20/23 09:08	03/21/23 22:47	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:28	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Barium	146		5.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 10:02	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:28	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:28	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:28	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:28	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:28	1
Manganese	213		5.00		ug/L		03/20/23 09:08	03/21/23 18:28	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.259	H H3	0.200		ug/L		03/20/23 12:45	03/21/23 14:04	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56397**

**Lab Sample ID: 680-232196-6**

Date Collected: 02/16/23 10:53

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:45	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	54300		500		ug/L		03/20/23 09:08	03/21/23 22:50	1
Iron	731		100		ug/L		03/20/23 09:08	03/21/23 22:50	1
Magnesium	4040		500		ug/L		03/20/23 09:08	03/21/23 22:50	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:50	1
Potassium	1990		1000		ug/L		03/20/23 09:08	03/21/23 22:50	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:50	1
Sodium	17300		2000		ug/L		03/20/23 09:08	03/21/23 22:50	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:32	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Barium	39.4		5.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 10:06	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:32	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:32	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:32	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:32	1
Zinc	309		20.0		ug/L		03/20/23 09:08	03/21/23 18:32	1
Manganese	112		5.00		ug/L		03/20/23 09:08	03/21/23 18:32	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 12:45	03/21/23 12:43	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56400**

**Lab Sample ID: 680-232196-7**

Date Collected: 02/16/23 12:55

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:50	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	262000		500		ug/L		03/20/23 09:08	03/21/23 22:53	1
Iron	789		100		ug/L		03/20/23 09:08	03/21/23 22:53	1
Magnesium	3890		500		ug/L		03/20/23 09:08	03/21/23 22:53	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:53	1
Potassium	2320		1000		ug/L		03/20/23 09:08	03/21/23 22:53	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:53	1
Sodium	13800		2000		ug/L		03/20/23 09:08	03/21/23 22:53	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	111		100		ug/L		03/20/23 09:08	03/21/23 18:44	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Barium	42.1		5.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:44	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:44	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:44	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:44	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:44	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:44	1
Manganese	18.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:44	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 13:40	03/21/23 11:09	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56442**

**Lab Sample ID: 680-232196-8**

Date Collected: 02/16/23 14:07

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:08	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	166000		500		ug/L		03/20/23 09:08	03/21/23 22:57	1
Iron	450		100		ug/L		03/20/23 09:08	03/21/23 22:57	1
Magnesium	7730		500		ug/L		03/20/23 09:08	03/21/23 22:57	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:57	1
Potassium	4290		1000		ug/L		03/20/23 09:08	03/21/23 22:57	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:57	1
Sodium	21900		2000		ug/L		03/20/23 09:08	03/21/23 22:57	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:48	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Barium	32.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:48	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:48	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:48	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:48	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:48	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:48	1
Manganese	58.2		5.00		ug/L		03/20/23 09:08	03/21/23 18:48	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 13:40	03/21/23 11:19	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56443**

**Lab Sample ID: 680-232196-9**

Date Collected: 02/16/23 14:12

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:13	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160000		500		ug/L		03/20/23 09:08	03/21/23 23:00	1
Iron	302		100		ug/L		03/20/23 09:08	03/21/23 23:00	1
Magnesium	7590		500		ug/L		03/20/23 09:08	03/21/23 23:00	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:00	1
Potassium	4050		1000		ug/L		03/20/23 09:08	03/21/23 23:00	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:00	1
Sodium	20700		2000		ug/L		03/20/23 09:08	03/21/23 23:00	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:52	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Barium	33.8		5.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:52	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:52	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:52	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:52	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:52	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:52	1
Manganese	57.3		5.00		ug/L		03/20/23 09:08	03/21/23 18:52	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 13:40	03/21/23 10:52	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56402**

**Lab Sample ID: 680-232196-10**

Date Collected: 02/27/23 12:47

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:18	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	204000		500		ug/L		03/20/23 09:08	03/21/23 23:03	1
Iron	23500		100		ug/L		03/20/23 09:08	03/21/23 23:03	1
Magnesium	24400		500		ug/L		03/20/23 09:08	03/21/23 23:03	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:03	1
Potassium	11400		1000		ug/L		03/20/23 09:08	03/21/23 23:03	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:03	1
Sodium	35500		2000		ug/L		03/20/23 09:08	03/21/23 23:03	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	386		100		ug/L		03/20/23 09:08	03/21/23 18:56	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Arsenic	31.0		3.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Barium	74.9		5.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:56	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:56	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:56	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:56	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:56	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:56	1
Manganese	283		5.00		ug/L		03/20/23 09:08	03/21/23 18:56	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:42	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56403**

**Lab Sample ID: 680-232196-11**

Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	51.4		50.0		ug/L		03/23/23 14:13	03/24/23 15:22	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	644000		500		ug/L		03/20/23 09:08	03/21/23 23:06	1
Iron	25200		100		ug/L		03/20/23 09:08	03/21/23 23:06	1
Magnesium	90300		500		ug/L		03/20/23 09:08	03/21/23 23:06	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:06	1
Potassium	28200		1000		ug/L		03/20/23 09:08	03/21/23 23:06	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:06	1
Sodium	155000		2000		ug/L		03/20/23 09:08	03/21/23 23:06	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:00	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Barium	332		5.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:00	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:00	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:00	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:00	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:00	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:00	1
Manganese	820		5.00		ug/L		03/20/23 09:08	03/21/23 19:00	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:32	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56404**

**Lab Sample ID: 680-232196-12**

Date Collected: 02/27/23 10:02

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	58.2		50.0		ug/L		03/23/23 14:13	03/24/23 15:27	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	659000		500		ug/L		03/20/23 09:08	03/21/23 23:10	1
Iron	25100		100		ug/L		03/20/23 09:08	03/21/23 23:10	1
Magnesium	91700		500		ug/L		03/20/23 09:08	03/21/23 23:10	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:10	1
Potassium	29000		1000		ug/L		03/20/23 09:08	03/21/23 23:10	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:10	1
Sodium	158000		2000		ug/L		03/20/23 09:08	03/21/23 23:10	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:03	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Barium	325		5.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:03	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:03	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:03	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:03	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:03	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:03	1
Manganese	800		5.00		ug/L		03/20/23 09:08	03/21/23 19:03	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:50	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56434**

**Lab Sample ID: 680-232196-13**

Date Collected: 02/27/23 15:44

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:32	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62900		500		ug/L		03/20/23 09:08	03/21/23 23:19	1
Iron	3180		100		ug/L		03/20/23 09:08	03/21/23 23:19	1
Magnesium	1950		500		ug/L		03/20/23 09:08	03/21/23 23:19	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:19	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 23:19	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:19	1
Sodium	4810		2000		ug/L		03/20/23 09:08	03/21/23 23:19	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1430		100		ug/L		03/20/23 09:08	03/21/23 19:07	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Barium	41.2		5.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:07	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:07	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Cobalt	2.15		0.500		ug/L		03/20/23 09:08	03/21/23 19:07	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:07	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:07	1
Zinc	264		20.0		ug/L		03/20/23 09:08	03/21/23 19:07	1
Manganese	52.9		5.00		ug/L		03/20/23 09:08	03/21/23 19:07	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:36	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56433**

**Lab Sample ID: 680-232196-14**

Date Collected: 02/28/23 12:58

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:37	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	433000		500		ug/L		03/20/23 09:08	03/21/23 23:23	1
Iron	17100		100		ug/L		03/20/23 09:08	03/21/23 23:23	1
Magnesium	12200		500		ug/L		03/20/23 09:08	03/21/23 23:23	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:23	1
Potassium	5480		1000		ug/L		03/20/23 09:08	03/21/23 23:23	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:23	1
Sodium	10300		2000		ug/L		03/20/23 09:08	03/21/23 23:23	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	219		100		ug/L		03/20/23 09:08	03/21/23 19:11	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Barium	51.1		5.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:11	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:11	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:11	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:11	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:11	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:11	1
Manganese	1240		5.00		ug/L		03/20/23 09:08	03/21/23 19:11	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:16	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56435**

**Lab Sample ID: 680-232196-15**

Date Collected: 02/28/23 11:44

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:42	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20400		500		ug/L		03/20/23 09:08	03/21/23 23:26	1
Iron	863		100		ug/L		03/20/23 09:08	03/21/23 23:26	1
Magnesium	821		500		ug/L		03/20/23 09:08	03/21/23 23:26	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:26	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 23:26	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:26	1
Sodium	3070		2000		ug/L		03/20/23 09:08	03/21/23 23:26	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3470		100		ug/L		03/20/23 09:08	03/21/23 19:15	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Arsenic	8.46		3.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Barium	29.9		5.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:15	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:15	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Cobalt	1.03		0.500		ug/L		03/20/23 09:08	03/21/23 19:15	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:15	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:15	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:15	1
Manganese	24.2		5.00		ug/L		03/20/23 09:08	03/21/23 19:15	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:06	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56436**

**Lab Sample ID: 680-232196-16**

Date Collected: 02/28/23 10:19

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:46	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	85500		500		ug/L		03/20/23 09:08	03/21/23 23:29	1
Iron	1170		100		ug/L		03/20/23 09:08	03/21/23 23:29	1
Magnesium	1970		500		ug/L		03/20/23 09:08	03/21/23 23:29	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:29	1
Potassium	1460		1000		ug/L		03/20/23 09:08	03/21/23 23:29	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:29	1
Sodium	4490		2000		ug/L		03/20/23 09:08	03/21/23 23:29	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:19	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Barium	35.5		5.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:19	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:19	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:19	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:19	1
Zinc	53.3		20.0		ug/L		03/20/23 09:08	03/21/23 19:19	1
Manganese	81.1		5.00		ug/L		03/20/23 09:08	03/21/23 19:19	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 12:39	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56437**

**Lab Sample ID: 680-232196-17**

Date Collected: 02/28/23 10:24

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:51	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	92300		500		ug/L		03/20/23 09:08	03/21/23 23:32	1
Iron	1310		100		ug/L		03/20/23 09:08	03/21/23 23:32	1
Magnesium	1710		500		ug/L		03/20/23 09:08	03/21/23 23:32	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:32	1
Potassium	1230		1000		ug/L		03/20/23 09:08	03/21/23 23:32	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:32	1
Sodium	3600		2000		ug/L		03/20/23 09:08	03/21/23 23:32	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:31	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Barium	36.2		5.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:31	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:31	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:31	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:31	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:31	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:31	1
Manganese	88.0		5.00		ug/L		03/20/23 09:08	03/21/23 19:31	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:35	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56438**

**Lab Sample ID: 680-232196-18**

Date Collected: 02/28/23 14:31

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 16:10	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	287000		500		ug/L		03/20/23 09:08	03/21/23 23:36	1
Iron	1800		100		ug/L		03/20/23 09:08	03/21/23 23:36	1
Magnesium	28000		500		ug/L		03/20/23 09:08	03/21/23 23:36	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:36	1
Potassium	6740		1000		ug/L		03/20/23 09:08	03/21/23 23:36	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:36	1
Sodium	17500		2000		ug/L		03/20/23 09:08	03/21/23 23:36	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:35	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Barium	34.9		5.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:35	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:35	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:35	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:35	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:35	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:35	1
Manganese	495		5.00		ug/L		03/20/23 09:08	03/21/23 19:35	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:32	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56409**

**Lab Sample ID: 680-232196-19**

Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	104		50.0		ug/L		03/23/23 14:13	03/24/23 16:14	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1150000		5000		ug/L		03/20/23 09:08	03/22/23 11:50	10
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 23:39	1
Magnesium	31700		500		ug/L		03/20/23 09:08	03/21/23 23:39	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:39	1
Potassium	15800		1000		ug/L		03/20/23 09:08	03/21/23 23:39	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:39	1
Sodium	144000		2000		ug/L		03/20/23 09:08	03/21/23 23:39	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:39	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Arsenic	13.8		3.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Barium	57.7		5.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:39	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:39	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:39	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:39	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:39	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:39	1
Manganese	6.96		5.00		ug/L		03/20/23 09:08	03/21/23 19:39	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:12	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56410**

**Lab Sample ID: 680-232196-20**

Date Collected: 03/06/23 12:19

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	128		50.0		ug/L		03/23/23 14:13	03/24/23 16:19	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1130000		5000		ug/L		03/20/23 09:08	03/22/23 11:53	10
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 23:42	1
Magnesium	30600		500		ug/L		03/20/23 09:08	03/21/23 23:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:42	1
Potassium	15400		1000		ug/L		03/20/23 09:08	03/21/23 23:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:42	1
Sodium	138000		2000		ug/L		03/20/23 09:08	03/21/23 23:42	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:43	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Arsenic	12.6		3.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Barium	52.0		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:43	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:43	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:43	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:43	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:43	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:43	1
Manganese	7.61		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:59	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56411**

**Lab Sample ID: 680-232196-21**

Date Collected: 03/06/23 11:08

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	77.1		50.0		ug/L		03/23/23 14:15	03/24/23 16:42	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	796000		5000		ug/L		03/20/23 09:08	03/22/23 11:56	10
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:50	1
Magnesium	40800		500		ug/L		03/20/23 09:08	03/21/23 20:50	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 20:50	1
Potassium	13000		1000		ug/L		03/20/23 09:08	03/21/23 20:50	1
Selenium	20.0	U F2 F1	20.0		ug/L		03/20/23 09:08	03/21/23 20:50	1
Sodium	121000		2000		ug/L		03/20/23 09:08	03/21/23 20:50	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:02	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Arsenic	8.18		3.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Barium	95.4		5.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:02	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:02	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:02	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:02	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Thallium	1.00	U F1	1.00		ug/L		03/20/23 09:08	03/21/23 20:02	1
Zinc	199	F1	20.0		ug/L		03/20/23 09:08	03/21/23 20:02	1
Manganese	101		5.00		ug/L		03/20/23 09:08	03/21/23 20:02	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:38	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56412**

**Lab Sample ID: 680-232196-22**

Date Collected: 03/06/23 15:15

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	51.5		50.0		ug/L		03/23/23 14:15	03/24/23 16:51	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	701000		500		ug/L		03/20/23 09:08	03/21/23 21:00	1
Iron	14700		100		ug/L		03/20/23 09:08	03/21/23 21:00	1
Magnesium	30200		500		ug/L		03/20/23 09:08	03/21/23 21:00	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:00	1
Potassium	7240		1000		ug/L		03/20/23 09:08	03/21/23 21:00	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:00	1
Sodium	108000		2000		ug/L		03/20/23 09:08	03/21/23 21:00	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:14	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Arsenic	4.94		3.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Barium	165		5.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:14	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:14	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:14	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:14	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:14	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:14	1
Manganese	355		5.00		ug/L		03/20/23 09:08	03/21/23 20:14	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 14:20	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56413**

**Lab Sample ID: 680-232196-23**

Date Collected: 03/06/23 13:41

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:23	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	163000		500		ug/L		03/20/23 09:08	03/21/23 21:03	1
Iron	10100		100		ug/L		03/20/23 09:08	03/21/23 21:03	1
Magnesium	11200		500		ug/L		03/20/23 09:08	03/21/23 21:03	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:03	1
Potassium	5010		1000		ug/L		03/20/23 09:08	03/21/23 21:03	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:03	1
Sodium	72500		2000		ug/L		03/20/23 09:08	03/21/23 21:03	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:18	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Barium	88.7		5.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:18	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:18	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Cobalt	0.870		0.500		ug/L		03/20/23 09:08	03/21/23 20:18	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:18	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:18	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:18	1
Manganese	235		5.00		ug/L		03/20/23 09:08	03/21/23 20:18	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:46	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56430**

**Lab Sample ID: 680-232196-24**

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:28	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	446000		500		ug/L		03/20/23 09:08	03/21/23 21:06	1
Iron	33300		100		ug/L		03/20/23 09:08	03/21/23 21:06	1
Magnesium	72500		500		ug/L		03/20/23 09:08	03/21/23 21:06	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:06	1
Potassium	6540		1000		ug/L		03/20/23 09:08	03/21/23 21:06	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:06	1
Sodium	87200		2000		ug/L		03/20/23 09:08	03/21/23 21:06	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:22	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Barium	36.3		5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:22	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:22	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Cobalt	6.51		0.500		ug/L		03/20/23 09:08	03/21/23 20:22	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:22	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:22	1
Manganese	3770		5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 14:10	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56406**

**Lab Sample ID: 680-232196-25**

Date Collected: 03/09/23 10:29

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:33	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	203000		500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Iron	1450		100		ug/L		03/20/23 09:08	03/21/23 21:09	1
Magnesium	18100		500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:09	1
Potassium	4990		1000		ug/L		03/20/23 09:08	03/21/23 21:09	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:09	1
Sodium	45500		2000		ug/L		03/20/23 09:08	03/21/23 21:09	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1940		100		ug/L		03/20/23 09:08	03/21/23 20:26	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Barium	36.4		5.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:26	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:26	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Cobalt	1.84		0.500		ug/L		03/20/23 09:08	03/21/23 20:26	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:26	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:26	1
Zinc	45.6		20.0		ug/L		03/20/23 09:08	03/21/23 20:26	1
Manganese	183		5.00		ug/L		03/20/23 09:08	03/21/23 20:26	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:13	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56407**

**Lab Sample ID: 680-232196-26**

Date Collected: 03/09/23 10:34

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	100	U	100		ug/L		03/23/23 14:15	03/24/23 17:38	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	207000		500		ug/L		03/20/23 09:08	03/21/23 21:13	1
Iron	1440		100		ug/L		03/20/23 09:08	03/21/23 21:13	1
Magnesium	18200		500		ug/L		03/20/23 09:08	03/21/23 21:13	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:13	1
Potassium	5150		1000		ug/L		03/20/23 09:08	03/21/23 21:13	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:13	1
Sodium	46200		2000		ug/L		03/20/23 09:08	03/21/23 21:13	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2090		100		ug/L		03/20/23 09:08	03/21/23 20:30	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Barium	36.9		5.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:30	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:30	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Cobalt	1.65		0.500		ug/L		03/20/23 09:08	03/21/23 20:30	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:30	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:30	1
Zinc	29.1		20.0		ug/L		03/20/23 09:08	03/21/23 20:30	1
Manganese	207		5.00		ug/L		03/20/23 09:08	03/21/23 20:30	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:03	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56418**

**Lab Sample ID: 680-232196-27**

Date Collected: 03/09/23 12:07

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	76.7		50.0		ug/L		03/23/23 14:15	03/24/23 17:42	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	94400		500		ug/L		03/20/23 09:08	03/21/23 21:22	1
Iron	840		100		ug/L		03/20/23 09:08	03/21/23 21:22	1
Magnesium	7510		500		ug/L		03/20/23 09:08	03/21/23 21:22	1
Molybdenum	90.2		10.0		ug/L		03/20/23 09:08	03/21/23 21:22	1
Potassium	7420		1000		ug/L		03/20/23 09:08	03/21/23 21:22	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:22	1
Sodium	25200		2000		ug/L		03/20/23 09:08	03/21/23 21:22	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	134		100		ug/L		03/20/23 09:08	03/21/23 20:41	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Arsenic	249		3.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Barium	127		5.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:41	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:41	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Cobalt	2.17		0.500		ug/L		03/20/23 09:08	03/21/23 20:41	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:41	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:41	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:41	1
Manganese	113		5.00		ug/L		03/20/23 09:08	03/21/23 20:41	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 12:36	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56422**

**Lab Sample ID: 680-232196-28**

Date Collected: 03/09/23 13:19

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:47	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250000		500		ug/L		03/20/23 09:08	03/21/23 21:26	1
Iron	15600		100		ug/L		03/20/23 09:08	03/21/23 21:26	1
Magnesium	9000		500		ug/L		03/20/23 09:08	03/21/23 21:26	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:26	1
Potassium	3920		1000		ug/L		03/20/23 09:08	03/21/23 21:26	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:26	1
Sodium	74400		2000		ug/L		03/20/23 09:08	03/21/23 21:26	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:45	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Arsenic	8.53		3.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Barium	121		5.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:45	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:45	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:45	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:45	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:45	1
Zinc	37.7		20.0		ug/L		03/20/23 09:08	03/21/23 20:45	1
Manganese	272		5.00		ug/L		03/20/23 09:08	03/21/23 20:45	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 14:24	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56419**

**Lab Sample ID: 680-232196-29**

Date Collected: 03/07/23 14:51

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	234		50.0		ug/L		03/23/23 14:15	03/24/23 17:52	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	601000		500		ug/L		03/20/23 09:08	03/21/23 21:29	1
Iron	19700		100		ug/L		03/20/23 09:08	03/21/23 21:29	1
Magnesium	88700		500		ug/L		03/20/23 09:08	03/21/23 21:29	1
Molybdenum	94.7		10.0		ug/L		03/20/23 09:08	03/21/23 21:29	1
Potassium	22200		1000		ug/L		03/20/23 09:08	03/21/23 21:29	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:29	1
Sodium	44900		2000		ug/L		03/20/23 09:08	03/21/23 21:29	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	672		100		ug/L		03/20/23 09:08	03/21/23 20:49	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Arsenic	474		3.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Barium	83.9		5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:49	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:49	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Cobalt	1.29		0.500		ug/L		03/20/23 09:08	03/21/23 20:49	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:49	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Zinc	24.2		20.0		ug/L		03/20/23 09:08	03/21/23 20:49	1
Manganese	1020		5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:22	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56425**

**Lab Sample ID: 680-232196-30**

Date Collected: 03/07/23 12:49

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:10	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68500		500		ug/L		03/20/23 09:08	03/21/23 21:32	1
Iron	3190		100		ug/L		03/20/23 09:08	03/21/23 21:32	1
Magnesium	2680		500		ug/L		03/20/23 09:08	03/21/23 21:32	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:32	1
Potassium	2060		1000		ug/L		03/20/23 09:08	03/21/23 21:32	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:32	1
Sodium	11100		2000		ug/L		03/20/23 09:08	03/21/23 21:32	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:53	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Barium	9.10		5.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:53	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:53	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:53	1
Copper	30.7		5.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:53	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:53	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:53	1
Manganese	90.8		5.00		ug/L		03/20/23 09:08	03/21/23 20:53	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:05	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56426**

**Lab Sample ID: 680-232196-31**

Date Collected: 03/07/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:15	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20600		500		ug/L		03/20/23 09:08	03/21/23 21:35	1
Iron	386		100		ug/L		03/20/23 09:08	03/21/23 21:35	1
Magnesium	1730		500		ug/L		03/20/23 09:08	03/21/23 21:35	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:35	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 21:35	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:35	1
Sodium	4370		2000		ug/L		03/20/23 09:08	03/21/23 21:35	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	164		100		ug/L		03/20/23 09:08	03/21/23 20:57	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Barium	34.6		5.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:57	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:57	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:57	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:57	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:57	1
Zinc	32.7		20.0		ug/L		03/20/23 09:08	03/21/23 20:57	1
Manganese	18.4		5.00		ug/L		03/20/23 09:08	03/21/23 20:57	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:55	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56427**

**Lab Sample ID: 680-232196-32**

Date Collected: 03/07/23 10:27

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:19	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	22400		500		ug/L		03/20/23 09:08	03/21/23 21:39	1
Iron	392		100		ug/L		03/20/23 09:08	03/21/23 21:39	1
Magnesium	1820		500		ug/L		03/20/23 09:08	03/21/23 21:39	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:39	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 21:39	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:39	1
Sodium	4470		2000		ug/L		03/20/23 09:08	03/21/23 21:39	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	178		100		ug/L		03/20/23 09:08	03/21/23 21:01	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Barium	34.5		5.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:01	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:01	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:01	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:01	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:01	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:01	1
Manganese	19.9		5.00		ug/L		03/20/23 09:08	03/21/23 21:01	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:35	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56408**

**Lab Sample ID: 680-232196-33**

Date Collected: 03/08/23 13:38

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:24	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	416000		500		ug/L		03/20/23 09:08	03/21/23 21:42	1
Iron	56000		100		ug/L		03/20/23 09:08	03/21/23 21:42	1
Magnesium	30400		500		ug/L		03/20/23 09:08	03/21/23 21:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:42	1
Potassium	2780		1000		ug/L		03/20/23 09:08	03/21/23 21:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:42	1
Sodium	127000		2000		ug/L		03/20/23 09:08	03/21/23 21:42	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:05	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Barium	305		5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:05	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:05	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Cobalt	0.555		0.500		ug/L		03/20/23 09:08	03/21/23 21:05	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:05	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Zinc	136		20.0		ug/L		03/20/23 09:08	03/21/23 21:05	1
Manganese	694		5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1	0.200		ug/L		03/20/23 13:40	03/21/23 12:16	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56415**

**Lab Sample ID: 680-232196-34**

Date Collected: 03/08/23 15:13

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:29	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	202000		500		ug/L		03/20/23 09:08	03/21/23 21:45	1
Iron	8580		100		ug/L		03/20/23 09:08	03/21/23 21:45	1
Magnesium	19800		500		ug/L		03/20/23 09:08	03/21/23 21:45	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:45	1
Potassium	11800		1000		ug/L		03/20/23 09:08	03/21/23 21:45	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:45	1
Sodium	128000		2000		ug/L		03/20/23 09:08	03/21/23 21:45	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:09	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Barium	86.8		5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:09	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Zinc	39.3		20.0		ug/L		03/20/23 09:08	03/21/23 21:09	1
Manganese	203		5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:43	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56416**

**Lab Sample ID: 680-232196-35**

Date Collected: 03/08/23 10:09

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:34	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260000		500		ug/L		03/20/23 09:08	03/21/23 21:48	1
Iron	1570		100		ug/L		03/20/23 09:08	03/21/23 21:48	1
Magnesium	38100		500		ug/L		03/20/23 09:08	03/21/23 21:48	1
Molybdenum	18.0		10.0		ug/L		03/20/23 09:08	03/21/23 21:48	1
Potassium	13800		1000		ug/L		03/20/23 09:08	03/21/23 21:48	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:48	1
Sodium	69700		2000		ug/L		03/20/23 09:08	03/21/23 21:48	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:13	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Arsenic	85.9		3.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Barium	44.4		5.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:13	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:13	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:13	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:13	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:13	1
Zinc	413		20.0		ug/L		03/20/23 09:08	03/21/23 21:13	1
Manganese	82.2		5.00		ug/L		03/20/23 09:08	03/21/23 21:13	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:23	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56417**

**Lab Sample ID: 680-232196-36**

Date Collected: 03/08/23 10:14

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:38	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260000		500		ug/L		03/20/23 09:08	03/21/23 21:52	1
Iron	1740		100		ug/L		03/20/23 09:08	03/21/23 21:52	1
Magnesium	37600		500		ug/L		03/20/23 09:08	03/21/23 21:52	1
Molybdenum	21.2		10.0		ug/L		03/20/23 09:08	03/21/23 21:52	1
Potassium	13800		1000		ug/L		03/20/23 09:08	03/21/23 21:52	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:52	1
Sodium	69400		2000		ug/L		03/20/23 09:08	03/21/23 21:52	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:17	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Arsenic	85.8		3.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Barium	45.4		5.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:17	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:17	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:17	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:17	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:17	1
Zinc	27.9		20.0		ug/L		03/20/23 09:08	03/21/23 21:17	1
Manganese	84.4		5.00		ug/L		03/20/23 09:08	03/21/23 21:17	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:10	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56429**

**Lab Sample ID: 680-232196-37**

Date Collected: 03/08/23 12:12

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:43	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	73100		500		ug/L		03/20/23 09:08	03/21/23 22:01	1
Iron	94400		100		ug/L		03/20/23 09:08	03/21/23 22:01	1
Magnesium	26000		500		ug/L		03/20/23 09:08	03/21/23 22:01	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:01	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:01	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:01	1
Sodium	82200		2000		ug/L		03/20/23 09:08	03/21/23 22:01	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2410		100		ug/L		03/20/23 09:08	03/21/23 21:28	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Barium	258		5.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Beryllium	0.985		0.500		ug/L		03/20/23 09:08	03/21/23 21:28	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:28	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Cobalt	18.6		0.500		ug/L		03/20/23 09:08	03/21/23 21:28	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Lead	3.19		2.50		ug/L		03/20/23 09:08	03/21/23 21:28	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:28	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:28	1
Manganese	1540		5.00		ug/L		03/20/23 09:08	03/21/23 21:28	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 14:07	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56421**

**Lab Sample ID: 680-232196-38**

Date Collected: 03/01/23 14:41

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:48	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	114000		500		ug/L		03/20/23 09:08	03/21/23 22:05	1
Iron	4430		100		ug/L		03/20/23 09:08	03/21/23 22:05	1
Magnesium	16900		500		ug/L		03/20/23 09:08	03/21/23 22:05	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:05	1
Potassium	10500		1000		ug/L		03/20/23 09:08	03/21/23 22:05	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:05	1
Sodium	21200		2000		ug/L		03/20/23 09:08	03/21/23 22:05	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	159		100		ug/L		03/20/23 09:08	03/21/23 21:32	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Barium	37.8		5.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:32	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:32	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:32	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:32	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:32	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:32	1
Manganese	128		5.00		ug/L		03/20/23 09:08	03/21/23 21:32	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1	0.200		ug/L		03/20/23 12:45	03/21/23 12:26	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232196-39**

Date Collected: 03/01/23 13:37

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:52	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	199000		500		ug/L		03/20/23 09:01	03/21/23 20:34	1
Iron	714		100		ug/L		03/20/23 09:01	03/21/23 20:34	1
Magnesium	15200		500		ug/L		03/20/23 09:01	03/21/23 20:34	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:34	1
Potassium	6130		1000		ug/L		03/20/23 09:01	03/21/23 20:34	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:34	1
Sodium	38200		2000		ug/L		03/20/23 09:01	03/21/23 20:34	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:45	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:19	1
Barium	8.73		5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:45	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:45	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:19	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:19	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:45	1
Manganese	59.2		5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:39	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56439**

**Lab Sample ID: 680-232196-40**

Date Collected: 03/01/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 19:11	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	138000		500		ug/L		03/20/23 09:08	03/21/23 22:08	1
Iron	9540		100		ug/L		03/20/23 09:08	03/21/23 22:08	1
Magnesium	14600		500		ug/L		03/20/23 09:08	03/21/23 22:08	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:08	1
Potassium	7790		1000		ug/L		03/20/23 09:08	03/21/23 22:08	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:08	1
Sodium	38300		2000		ug/L		03/20/23 09:08	03/21/23 22:08	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1000		100		ug/L		03/20/23 09:08	03/21/23 21:36	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Arsenic	42.3		3.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Barium	104		5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:36	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:36	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Cobalt	6.88		0.500		ug/L		03/20/23 09:08	03/21/23 21:36	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:36	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Zinc	67.1		20.0		ug/L		03/20/23 09:08	03/21/23 21:36	1
Manganese	167		5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:15	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56441**

**Lab Sample ID: 680-232196-41**

Date Collected: 03/01/23 11:45

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	121		50.0		ug/L		03/23/23 14:17	03/24/23 19:24	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	191000		500		ug/L		03/20/23 09:08	03/21/23 22:11	1
Iron	5280		100		ug/L		03/20/23 09:08	03/21/23 22:11	1
Magnesium	10900		500		ug/L		03/20/23 09:08	03/21/23 22:11	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:11	1
Potassium	5500		1000		ug/L		03/20/23 09:08	03/21/23 22:11	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:11	1
Sodium	24400		2000		ug/L		03/20/23 09:08	03/21/23 22:11	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:40	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Arsenic	182		3.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Barium	78.6		5.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:40	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:40	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:40	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:40	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:40	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:40	1
Manganese	324		5.00		ug/L		03/20/23 09:08	03/21/23 21:40	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:02	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56414**

**Lab Sample ID: 680-232196-42**

Date Collected: 03/02/23 12:46

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 19:34	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	495000		500		ug/L		03/20/23 13:39	03/21/23 10:48	1
Iron	27800		100		ug/L		03/20/23 13:39	03/21/23 10:48	1
Magnesium	49100		500		ug/L		03/20/23 13:39	03/21/23 10:48	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:48	1
Potassium	6740		1000		ug/L		03/20/23 13:39	03/21/23 10:48	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:48	1
Sodium	101000		2000		ug/L		03/20/23 13:39	03/21/23 10:48	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:04	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Barium	413		5.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:04	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:04	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:04	1
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:04	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:04	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:04	1
Manganese	626		5.00		ug/L		03/20/23 13:39	03/21/23 22:04	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 15:26	03/21/23 14:17	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56423**

**Lab Sample ID: 680-232196-43**

Date Collected: 03/02/23 10:56

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	104		50.0		ug/L		03/23/23 14:17	03/24/23 19:38	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	429000		500		ug/L		03/20/23 13:39	03/21/23 10:58	1
Iron	16600		100		ug/L		03/20/23 13:39	03/21/23 10:58	1
Magnesium	52600		500		ug/L		03/20/23 13:39	03/21/23 10:58	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:58	1
Potassium	13400		1000		ug/L		03/20/23 13:39	03/21/23 10:58	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:58	1
Sodium	92700		2000		ug/L		03/20/23 13:39	03/21/23 10:58	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:15	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Arsenic	363		3.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Barium	262		5.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:15	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:15	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:15	1
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:15	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:15	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:15	1
Manganese	887		5.00		ug/L		03/20/23 13:39	03/21/23 22:15	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 15:26	03/21/23 12:02	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232196-44**

Date Collected: 03/02/23 00:00

Matrix: Water

Date Received: 03/17/23 10:30

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:11	1

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	102000		500		ug/L		03/20/23 13:39	03/21/23 11:01	1
Iron	89800		100		ug/L		03/20/23 13:39	03/21/23 11:01	1
Magnesium	23400		500		ug/L		03/20/23 13:39	03/21/23 11:01	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:01	1
Potassium	10800		1000		ug/L		03/20/23 13:39	03/21/23 11:01	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:01	1
Sodium	37100		2000		ug/L		03/20/23 13:39	03/21/23 11:01	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:19	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Arsenic	88.3		3.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Barium	123		5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:19	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Cobalt	0.630		0.500		ug/L		03/20/23 13:39	03/21/23 22:19	1
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:19	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:19	1
Manganese	362		5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 15:26	03/21/23 14:14	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6010D - Metals (ICP)

<b>Lab Sample ID: MB 160-604813/1-A</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: Method Blank</b> Prep Type: Total/NA Prep Batch: 604813					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 13:41	1			
<b>Lab Sample ID: LCS 160-604813/2-A</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: Lab Control Sample</b> Prep Type: Total/NA Prep Batch: 604813					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits					
Lithium	100	103.0		ug/L		103	80 - 120					
<b>Lab Sample ID: 680-232196-3 MS</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: AF56332</b> Prep Type: Total/NA Prep Batch: 604813					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Lithium	50.0	U	100	101.3		ug/L		101	75 - 125			
<b>Lab Sample ID: 680-232196-3 MSD</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: AF56332</b> Prep Type: Total/NA Prep Batch: 604813					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Lithium	50.0	U	100	106.2		ug/L		106	75 - 125		5	20
<b>Lab Sample ID: MB 160-604815/1-A</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: Method Blank</b> Prep Type: Total/NA Prep Batch: 604815					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 16:33	1			
<b>Lab Sample ID: LCS 160-604815/2-A</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: Lab Control Sample</b> Prep Type: Total/NA Prep Batch: 604815					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits					
Lithium	100	103.2		ug/L		103	80 - 120					
<b>Lab Sample ID: 680-232196-22 MS</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: AF56412</b> Prep Type: Total/NA Prep Batch: 604815					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Lithium	51.5		100	160.3		ug/L		109	75 - 125			
<b>Lab Sample ID: 680-232196-22 MSD</b> Matrix: Water Analysis Batch: 605060							<b>Client Sample ID: AF56412</b> Prep Type: Total/NA Prep Batch: 604815					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Lithium	51.5		100	167.3		ug/L		116	75 - 125		4	20

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 160-604817/1-A**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 604817**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 19:15	1

**Lab Sample ID: LCS 160-604817/2-A**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 604817**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	100	104.4		ug/L		104	80 - 120

**Lab Sample ID: 680-232196-43 MS**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: AF56423**  
**Prep Type: Total/NA**  
**Prep Batch: 604817**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	104		100	215.8		ug/L		112	75 - 125

**Lab Sample ID: 680-232196-43 MSD**  
**Matrix: Water**  
**Analysis Batch: 605060**

**Client Sample ID: AF56423**  
**Prep Type: Total/NA**  
**Prep Batch: 604817**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lithium	104		100	206.4		ug/L		103	75 - 125	4	20

**Lab Sample ID: MB 680-768608/1-A**  
**Matrix: Water**  
**Analysis Batch: 768929**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768608**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 10:42	1
Magnesium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:42	1
Potassium	1000	U	1000		ug/L		03/20/23 13:39	03/21/23 10:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:42	1
Sodium	2000	U	2000		ug/L		03/20/23 13:39	03/21/23 10:42	1

**Lab Sample ID: LCS 680-768608/2-A**  
**Matrix: Water**  
**Analysis Batch: 768929**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768608**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	5036		ug/L		101	80 - 120
Iron	5000	5196		ug/L		104	80 - 120
Magnesium	5010	5075		ug/L		101	80 - 120
Molybdenum	100	101.3		ug/L		101	80 - 120
Potassium	6970	7195		ug/L		103	80 - 120
Selenium	100	91.14		ug/L		91	80 - 120
Sodium	5050	4981		ug/L		99	80 - 120

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-232196-42 MS

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56414

Prep Type: Total Recoverable

Prep Batch: 768608

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Calcium	495000		5000	465900	4	ug/L		-584	75 - 125	
Iron	27800		5000	30980	4	ug/L		65	75 - 125	
Magnesium	49100		5010	51080	4	ug/L		40	75 - 125	
Molybdenum	10.0	U	100	99.69		ug/L		100	75 - 125	
Potassium	6740		6970	13970		ug/L		104	75 - 125	
Selenium	20.0	U	100	99.11		ug/L		99	75 - 125	
Sodium	101000		5050	99940	4	ug/L		-27	75 - 125	

Lab Sample ID: 680-232196-42 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56414

Prep Type: Total Recoverable

Prep Batch: 768608

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Calcium	495000		5000	479700	4	ug/L		-308	75 - 125		3	20
Iron	27800		5000	31600	4	ug/L		77	75 - 125		2	20
Magnesium	49100		5010	51880	4	ug/L		55	75 - 125		2	20
Molybdenum	10.0	U	100	99.88		ug/L		100	75 - 125		0	20
Potassium	6740		6970	14290		ug/L		108	75 - 125		2	20
Selenium	20.0	U	100	98.21		ug/L		98	75 - 125		1	20
Sodium	101000		5050	101500	4	ug/L		4	75 - 125		2	20

Lab Sample ID: MB 680-768857/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 768857

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		03/20/23 09:08	03/21/23 22:14	1
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 22:14	1
Magnesium	500	U	500		ug/L		03/20/23 09:08	03/21/23 22:14	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:14	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:14	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:14	1
Sodium	2000	U	2000		ug/L		03/20/23 09:08	03/21/23 22:14	1

Lab Sample ID: LCS 680-768857/2-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 768857

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
							Result	Qualifier
Calcium	5000	5172		ug/L		103	80 - 120	
Iron	5000	5307		ug/L		106	80 - 120	
Magnesium	5010	5182		ug/L		103	80 - 120	
Molybdenum	100	101.0		ug/L		101	80 - 120	
Potassium	6970	7569		ug/L		109	80 - 120	
Selenium	100	95.33		ug/L		95	80 - 120	
Sodium	5050	5064		ug/L		100	80 - 120	

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-232196-1 MS

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56394

Prep Type: Total Recoverable

Prep Batch: 768857

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Calcium	10600		5000	15760		ug/L		104	75 - 125	
Iron	3060		5000	8285		ug/L		105	75 - 125	
Magnesium	1000		5010	6188		ug/L		104	75 - 125	
Molybdenum	10.0	U	100	100.6		ug/L		101	75 - 125	
Potassium	1000	U	6970	7931		ug/L		107	75 - 125	
Selenium	20.0	U	100	94.05		ug/L		94	75 - 125	
Sodium	5460		5050	10600		ug/L		102	75 - 125	

Lab Sample ID: 680-232196-1 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56394

Prep Type: Total Recoverable

Prep Batch: 768857

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Calcium	10600		5000	15550		ug/L		100	75 - 125		1	20
Iron	3060		5000	8180		ug/L		102	75 - 125		1	20
Magnesium	1000		5010	6135		ug/L		102	75 - 125		1	20
Molybdenum	10.0	U	100	99.59		ug/L		100	75 - 125		1	20
Potassium	1000	U	6970	7836		ug/L		105	75 - 125		1	20
Selenium	20.0	U	100	89.89		ug/L		90	75 - 125		5	20
Sodium	5460		5050	10460		ug/L		99	75 - 125		1	20

Lab Sample ID: MB 680-768858/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 768858

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		03/20/23 09:08	03/21/23 20:43	1
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:43	1
Magnesium	500	U	500		ug/L		03/20/23 09:08	03/21/23 20:43	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 20:43	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 20:43	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:43	1
Sodium	2000	U	2000		ug/L		03/20/23 09:08	03/21/23 20:43	1

Lab Sample ID: LCS 680-768858/2-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 768858

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
							Result	Qualifier
Calcium	5000	5290		ug/L		106	80 - 120	
Iron	5000	5413		ug/L		108	80 - 120	
Magnesium	5010	5283		ug/L		105	80 - 120	
Molybdenum	100	104.8		ug/L		105	80 - 120	
Potassium	6970	7535		ug/L		108	80 - 120	
Selenium	100	92.88		ug/L		93	80 - 120	
Sodium	5050	5173		ug/L		103	80 - 120	

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-232196-21 MS

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56411

Prep Type: Total Recoverable

Prep Batch: 768858

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Iron	100	U	5000	5184		ug/L		102	75 - 125	
Magnesium	40800		5010	46170	4	ug/L		108	75 - 125	
Molybdenum	10.0	U	100	98.61		ug/L		99	75 - 125	
Potassium	13000		6970	20750		ug/L		111	75 - 125	
Selenium	20.0	U F2 F1	100	40.57	F1	ug/L		41	75 - 125	
Sodium	121000		5050	126600	4	ug/L		109	75 - 125	

Lab Sample ID: 680-232196-21 MS

Matrix: Water

Analysis Batch: 769167

Client Sample ID: AF56411

Prep Type: Total Recoverable

Prep Batch: 768858

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Calcium	796000		5000	822800	4	ug/L		536	75 - 125	

Lab Sample ID: 680-232196-21 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56411

Prep Type: Total Recoverable

Prep Batch: 768858

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Iron	100	U	5000	5335		ug/L		105	75 - 125		3	20
Magnesium	40800		5010	46540	4	ug/L		115	75 - 125		1	20
Molybdenum	10.0	U	100	102.3		ug/L		102	75 - 125		4	20
Potassium	13000		6970	21390		ug/L		120	75 - 125		3	20
Selenium	20.0	U F2 F1	100	51.00	F2 F1	ug/L		51	75 - 125		23	20
Sodium	121000		5050	127400	4	ug/L		125	75 - 125		1	20

Lab Sample ID: 680-232196-21 MSD

Matrix: Water

Analysis Batch: 769167

Client Sample ID: AF56411

Prep Type: Total Recoverable

Prep Batch: 768858

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Calcium	796000		5000	827000	4	ug/L		620	75 - 125		1	20

Lab Sample ID: MB 680-768859/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 768859

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Calcium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1	
Iron	100	U	100		ug/L		03/20/23 09:01	03/21/23 19:06	1	
Magnesium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:06	1	
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:06	1	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:06	1	
Sodium	2000	U	2000		ug/L		03/20/23 09:01	03/21/23 19:06	1	

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-768859/2-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 768859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	5013		ug/L		100	80 - 120	
Iron	5000	5131		ug/L		103	80 - 120	
Magnesium	5010	5094		ug/L		102	80 - 120	
Molybdenum	100	100.7		ug/L		101	80 - 120	
Potassium	6970	7245		ug/L		104	80 - 120	
Selenium	100	95.19		ug/L		95	80 - 120	
Sodium	5050	5031		ug/L		100	80 - 120	

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-768540/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 768540

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 15:59	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 15:59	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 15:59	1
Manganese	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1

Lab Sample ID: LCS 680-768540/2-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 768540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	5000	5338		ug/L		107	80 - 120	
Antimony	50.0	51.80		ug/L		104	80 - 120	
Arsenic	100	103.7		ug/L		104	80 - 120	
Barium	100	102.1		ug/L		102	80 - 120	
Beryllium	50.0	54.66		ug/L		109	80 - 120	
Cadmium	50.0	51.98		ug/L		104	80 - 120	
Chromium	100	108.2		ug/L		108	80 - 120	
Cobalt	50.0	53.54		ug/L		107	80 - 120	
Copper	100	116.1		ug/L		116	80 - 120	
Lead	505	507.5		ug/L		101	80 - 120	
Nickel	100	105.2		ug/L		105	80 - 120	
Silver	50.0	54.86		ug/L		110	80 - 120	
Thallium	50.0	49.92		ug/L		100	80 - 120	

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-768540/2-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768540**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Zinc	100	110.6		ug/L		111	80 - 120	
Manganese	400	429.2		ug/L		107	80 - 120	

**Lab Sample ID: MB 680-768544/1-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 17:57	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 17:57	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 17:57	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 17:57	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 17:57	1
Manganese	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1

**Lab Sample ID: MB 680-768544/1-A**  
**Matrix: Water**  
**Analysis Batch: 769014**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:23	1

**Lab Sample ID: LCS 680-768544/2-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	5000	4884		ug/L		98	80 - 120	
Antimony	50.0	49.01		ug/L		98	80 - 120	
Arsenic	100	95.38		ug/L		95	80 - 120	
Barium	100	95.86		ug/L		96	80 - 120	
Cadmium	50.0	50.36		ug/L		101	80 - 120	
Chromium	100	100.9		ug/L		101	80 - 120	
Cobalt	50.0	50.80		ug/L		102	80 - 120	
Copper	100	105.9		ug/L		106	80 - 120	
Lead	505	477.8		ug/L		95	80 - 120	
Nickel	100	92.93		ug/L		93	80 - 120	
Silver	50.0	51.72		ug/L		103	80 - 120	
Thallium	50.0	47.32		ug/L		95	80 - 120	
Zinc	100	105.9		ug/L		106	80 - 120	
Manganese	400	409.6		ug/L		102	80 - 120	

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-768544/2-A**  
**Matrix: Water**  
**Analysis Batch: 769014**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	56.61		ug/L		113	80 - 120

**Lab Sample ID: 680-232196-1 MS**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: AF56394**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	1280		5000	6366		ug/L		102	75 - 125
Antimony	5.00	U	50.0	51.68		ug/L		103	75 - 125
Arsenic	5.88		100	108.0		ug/L		102	75 - 125
Barium	76.0		100	176.8		ug/L		101	75 - 125
Cadmium	0.500	U	50.0	50.40		ug/L		101	75 - 125
Chromium	5.00	U	100	102.8		ug/L		103	75 - 125
Cobalt	0.705		50.0	51.99		ug/L		103	75 - 125
Copper	5.00	U	100	108.0		ug/L		108	75 - 125
Lead	2.50	U	505	489.2		ug/L		97	75 - 125
Nickel	5.00	U	100	98.15		ug/L		98	75 - 125
Silver	1.00	U	50.0	52.85		ug/L		106	75 - 125
Thallium	1.00	U	50.0	48.51		ug/L		97	75 - 125
Zinc	24.9		100	132.5		ug/L		108	75 - 125
Manganese	27.1		400	434.5		ug/L		102	75 - 125

**Lab Sample ID: 680-232196-1 MS**  
**Matrix: Water**  
**Analysis Batch: 769014**

**Client Sample ID: AF56394**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	U	50.0	56.69		ug/L		113	75 - 125

**Lab Sample ID: 680-232196-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: AF56394**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	1280		5000	6254		ug/L		100	75 - 125	2	20
Antimony	5.00	U	50.0	49.50		ug/L		99	75 - 125	4	20
Arsenic	5.88		100	108.9		ug/L		103	75 - 125	1	20
Barium	76.0		100	172.6		ug/L		97	75 - 125	2	20
Cadmium	0.500	U	50.0	49.54		ug/L		99	75 - 125	2	20
Chromium	5.00	U	100	102.5		ug/L		102	75 - 125	0	20
Cobalt	0.705		50.0	51.45		ug/L		101	75 - 125	1	20
Copper	5.00	U	100	108.8		ug/L		109	75 - 125	1	20
Lead	2.50	U	505	485.5		ug/L		96	75 - 125	1	20
Nickel	5.00	U	100	98.23		ug/L		98	75 - 125	0	20
Silver	1.00	U	50.0	51.83		ug/L		104	75 - 125	2	20
Thallium	1.00	U	50.0	48.13		ug/L		96	75 - 125	1	20
Zinc	24.9		100	123.0		ug/L		98	75 - 125	7	20
Manganese	27.1		400	432.3		ug/L		101	75 - 125	1	20

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 680-232196-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 769014**

**Client Sample ID: AF56394**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.500	U	50.0	56.09		ug/L		112	75 - 125	1	20

**Lab Sample ID: MB 680-768552/1-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768552**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:54	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:54	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:54	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:54	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:54	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:54	1
Manganese	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1

**Lab Sample ID: LCS 680-768552/2-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768552**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5381		ug/L		108	80 - 120
Antimony	50.0	53.20		ug/L		106	80 - 120
Arsenic	100	109.8		ug/L		110	80 - 120
Barium	100	104.9		ug/L		105	80 - 120
Beryllium	50.0	50.03		ug/L		100	80 - 120
Cadmium	50.0	54.49		ug/L		109	80 - 120
Chromium	100	107.2		ug/L		107	80 - 120
Cobalt	50.0	54.46		ug/L		109	80 - 120
Copper	100	111.4		ug/L		111	80 - 120
Lead	505	513.4		ug/L		102	80 - 120
Nickel	100	100.1		ug/L		100	80 - 120
Silver	50.0	54.03		ug/L		108	80 - 120
Thallium	50.0	51.46		ug/L		103	80 - 120
Zinc	100	103.8		ug/L		104	80 - 120
Manganese	400	434.1		ug/L		109	80 - 120

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-232196-21 MS

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56411

Prep Type: Total Recoverable

Prep Batch: 768552

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				Limits	
Aluminum	100	U	5000	5779		ug/L		116	75 - 125	
Antimony	5.00	U	50.0	55.90		ug/L		112	75 - 125	
Arsenic	8.18		100	120.5		ug/L		112	75 - 125	
Barium	95.4		100	211.5		ug/L		116	75 - 125	
Beryllium	0.500	U	50.0	55.57		ug/L		111	75 - 125	
Cadmium	0.500	U	50.0	53.63		ug/L		107	75 - 125	
Chromium	5.00	U	100	121.9		ug/L		122	75 - 125	
Cobalt	0.500	U	50.0	59.05		ug/L		118	75 - 125	
Copper	5.00	U	100	114.5		ug/L		114	75 - 125	
Lead	2.50	U	505	600.1		ug/L		119	75 - 125	
Nickel	5.00	U	100	110.8		ug/L		111	75 - 125	
Silver	1.00	U	50.0	53.16		ug/L		106	75 - 125	
Thallium	1.00	U F1	50.0	61.74		ug/L		123	75 - 125	
Zinc	199	F1	100	267.8	F1	ug/L		69	75 - 125	
Manganese	101		400	587.0		ug/L		122	75 - 125	

Lab Sample ID: 680-232196-21 MSD

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56411

Prep Type: Total Recoverable

Prep Batch: 768552

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				RPD			
Aluminum	100	U	5000	5957		ug/L		119	75 - 125	3	20	
Antimony	5.00	U	50.0	58.11		ug/L		116	75 - 125	4	20	
Arsenic	8.18		100	126.6		ug/L		118	75 - 125	5	20	
Barium	95.4		100	218.6		ug/L		123	75 - 125	3	20	
Beryllium	0.500	U	50.0	58.13		ug/L		116	75 - 125	5	20	
Cadmium	0.500	U	50.0	56.57		ug/L		113	75 - 125	5	20	
Chromium	5.00	U	100	119.1		ug/L		119	75 - 125	2	20	
Cobalt	0.500	U	50.0	59.36		ug/L		119	75 - 125	1	20	
Copper	5.00	U	100	116.8		ug/L		117	75 - 125	2	20	
Lead	2.50	U	505	608.8		ug/L		121	75 - 125	1	20	
Nickel	5.00	U	100	111.7		ug/L		112	75 - 125	1	20	
Silver	1.00	U	50.0	53.81		ug/L		108	75 - 125	1	20	
Thallium	1.00	U F1	50.0	62.76	F1	ug/L		126	75 - 125	2	20	
Zinc	199	F1	100	301.0		ug/L		102	75 - 125	12	20	
Manganese	101		400	576.8		ug/L		119	75 - 125	2	20	

Lab Sample ID: MB 680-768613/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 768613

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 21:56	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Barium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 680-768613/1-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768613**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 21:56	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 21:56	1
Manganese	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1

**Lab Sample ID: LCS 680-768613/2-A**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768613**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	50.30		ug/L		101	80 - 120
Arsenic	100	96.86		ug/L		97	80 - 120
Barium	100	96.16		ug/L		96	80 - 120
Beryllium	50.0	49.35		ug/L		99	80 - 120
Cadmium	50.0	49.86		ug/L		100	80 - 120
Chromium	100	98.60		ug/L		99	80 - 120
Cobalt	50.0	50.99		ug/L		102	80 - 120
Copper	100	100.7		ug/L		101	80 - 120
Lead	505	475.9		ug/L		94	80 - 120
Nickel	100	96.51		ug/L		97	80 - 120
Silver	50.0	49.14		ug/L		98	80 - 120
Thallium	50.0	47.31		ug/L		95	80 - 120
Zinc	100	101.1		ug/L		101	80 - 120
Manganese	400	400.6		ug/L		100	80 - 120

**Lab Sample ID: 680-232196-42 MS**  
**Matrix: Water**  
**Analysis Batch: 768945**

**Client Sample ID: AF56414**  
**Prep Type: Total Recoverable**  
**Prep Batch: 768613**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	5.00	U	50.0	51.95		ug/L		104	75 - 125
Arsenic	3.00	U	100	100.8		ug/L		100	75 - 125
Barium	413		100	504.5	4	ug/L		91	75 - 125
Beryllium	0.500	U	50.0	50.80		ug/L		101	75 - 125
Cadmium	0.500	U	50.0	50.23		ug/L		100	75 - 125
Chromium	5.00	U	100	103.6		ug/L		104	75 - 125
Cobalt	0.500	U	50.0	51.77		ug/L		104	75 - 125
Copper	5.00	U	100	103.1		ug/L		103	75 - 125
Lead	2.50	U	505	527.4		ug/L		105	75 - 125
Nickel	5.00	U	100	96.03		ug/L		96	75 - 125
Silver	1.00	U	50.0	48.82		ug/L		98	75 - 125
Thallium	1.00	U	50.0	53.92		ug/L		108	75 - 125
Zinc	20.0	U	100	100.1		ug/L		100	75 - 125

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-232196-42 MS

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56414

Prep Type: Total Recoverable

Prep Batch: 768613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	626		400	1027		ug/L		100	75 - 125

Lab Sample ID: 680-232196-42 MSD

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56414

Prep Type: Total Recoverable

Prep Batch: 768613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	U	5000	5419		ug/L		108	75 - 125	5	20
Antimony	5.00	U	50.0	53.96		ug/L		108	75 - 125	4	20
Arsenic	3.00	U	100	118.0		ug/L		117	75 - 125	16	20
Barium	413		100	527.2	4	ug/L		114	75 - 125	4	20
Beryllium	0.500	U	50.0	54.08		ug/L		107	75 - 125	6	20
Cadmium	0.500	U	50.0	53.48		ug/L		107	75 - 125	6	20
Chromium	5.00	U	100	110.0		ug/L		110	75 - 125	6	20
Cobalt	0.500	U	50.0	55.83		ug/L		112	75 - 125	8	20
Copper	5.00	U	100	108.4		ug/L		108	75 - 125	5	20
Lead	2.50	U	505	554.7		ug/L		110	75 - 125	5	20
Nickel	5.00	U	100	101.5		ug/L		102	75 - 125	6	20
Silver	1.00	U	50.0	50.75		ug/L		101	75 - 125	4	20
Thallium	1.00	U	50.0	56.00		ug/L		112	75 - 125	4	20
Zinc	20.0	U	100	108.5		ug/L		108	75 - 125	8	20
Manganese	626		400	1076		ug/L		112	75 - 125	5	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-768588/1-A

Matrix: Water

Analysis Batch: 768864

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 768588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:30	03/20/23 18:43	1

Lab Sample ID: LCS 680-768588/2-A

Matrix: Water

Analysis Batch: 768864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 768588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.479		ug/L		99	80 - 120

Lab Sample ID: MB 680-768590/1-A

Matrix: Water

Analysis Batch: 768864

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 768590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 12:19	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 7470A - Mercury (CVAA) (Continued)

<b>Lab Sample ID: LCS 680-768590/2-A</b>				<b>Client Sample ID: Lab Control Sample</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768590</b>							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Mercury	2.50	2.311		ug/L		92	80 - 120				
<b>Lab Sample ID: 680-232196-38 MS</b>				<b>Client Sample ID: AF56421</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768590</b>							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.200	U F1	1.00	0.7944	F1	ug/L		79	80 - 120		
<b>Lab Sample ID: 680-232196-38 MSD</b>				<b>Client Sample ID: AF56421</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768590</b>							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	0.200	U F1	1.00	0.8144		ug/L		81	80 - 120	2	20
<b>Lab Sample ID: MB 680-768609/1-A</b>				<b>Client Sample ID: Method Blank</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768609</b>							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 10:12	1		
<b>Lab Sample ID: LCS 680-768609/2-A</b>				<b>Client Sample ID: Lab Control Sample</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768609</b>							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Mercury	2.50	2.338		ug/L		94	80 - 120				
<b>Lab Sample ID: 680-232196-33 MS</b>				<b>Client Sample ID: AF56408</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768609</b>							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.200	U F1	1.00	0.8587	F1	ug/L		78	80 - 120		
<b>Lab Sample ID: 680-232196-33 MSD</b>				<b>Client Sample ID: AF56408</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768609</b>							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	0.200	U F1	1.00	0.7309	F1	ug/L		65	80 - 120	16	20
<b>Lab Sample ID: MB 680-768648/1-A</b>				<b>Client Sample ID: Method Blank</b>							
<b>Matrix: Water</b>				<b>Prep Type: Total/NA</b>							
<b>Analysis Batch: 768864</b>				<b>Prep Batch: 768648</b>							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		03/20/23 15:26	03/21/23 11:46	1		

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 680-768648/2-A			Client Sample ID: Lab Control Sample							
Matrix: Water			Prep Type: Total/NA							
Analysis Batch: 768864			Prep Batch: 768648							
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Mercury			2.50	2.343		ug/L		94	80 - 120	

Lab Sample ID: 680-232196-44 MS			Client Sample ID: AF56428							
Matrix: Water			Prep Type: Total/NA							
Analysis Batch: 768864			Prep Batch: 768648							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Mercury	0.200	U	1.00	0.8867		ug/L		89	80 - 120	

Lab Sample ID: 680-232196-44 MSD			Client Sample ID: AF56428								
Matrix: Water			Prep Type: Total/NA								
Analysis Batch: 768864			Prep Batch: 768648								
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.8738		ug/L		87	80 - 120	1	20

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals

### Prep Batch: 604813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total/NA	Water	3010A	
680-232196-2	AF56331	Total/NA	Water	3010A	
680-232196-3	AF56332	Total/NA	Water	3010A	
680-232196-4	AF56395	Total/NA	Water	3010A	
680-232196-5	AF56396	Total/NA	Water	3010A	
680-232196-6	AF56397	Total/NA	Water	3010A	
680-232196-7	AF56400	Total/NA	Water	3010A	
680-232196-8	AF56442	Total/NA	Water	3010A	
680-232196-9	AF56443	Total/NA	Water	3010A	
680-232196-10	AF56402	Total/NA	Water	3010A	
680-232196-11	AF56403	Total/NA	Water	3010A	
680-232196-12	AF56404	Total/NA	Water	3010A	
680-232196-13	AF56434	Total/NA	Water	3010A	
680-232196-14	AF56433	Total/NA	Water	3010A	
680-232196-15	AF56435	Total/NA	Water	3010A	
680-232196-16	AF56436	Total/NA	Water	3010A	
680-232196-17	AF56437	Total/NA	Water	3010A	
680-232196-18	AF56438	Total/NA	Water	3010A	
680-232196-19	AF56409	Total/NA	Water	3010A	
680-232196-20	AF56410	Total/NA	Water	3010A	
MB 160-604813/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604813/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232196-3 MS	AF56332	Total/NA	Water	3010A	
680-232196-3 MSD	AF56332	Total/NA	Water	3010A	

### Prep Batch: 604815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-21	AF56411	Total/NA	Water	3010A	
680-232196-22	AF56412	Total/NA	Water	3010A	
680-232196-23	AF56413	Total/NA	Water	3010A	
680-232196-24	AF56430	Total/NA	Water	3010A	
680-232196-25	AF56406	Total/NA	Water	3010A	
680-232196-26	AF56407	Total/NA	Water	3010A	
680-232196-27	AF56418	Total/NA	Water	3010A	
680-232196-28	AF56422	Total/NA	Water	3010A	
680-232196-29	AF56419	Total/NA	Water	3010A	
680-232196-30	AF56425	Total/NA	Water	3010A	
680-232196-31	AF56426	Total/NA	Water	3010A	
680-232196-32	AF56427	Total/NA	Water	3010A	
680-232196-33	AF56408	Total/NA	Water	3010A	
680-232196-34	AF56415	Total/NA	Water	3010A	
680-232196-35	AF56416	Total/NA	Water	3010A	
680-232196-36	AF56417	Total/NA	Water	3010A	
680-232196-37	AF56429	Total/NA	Water	3010A	
680-232196-38	AF56421	Total/NA	Water	3010A	
680-232196-39	AF56428	Total/NA	Water	3010A	
680-232196-40	AF56439	Total/NA	Water	3010A	
MB 160-604815/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604815/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232196-22 MS	AF56412	Total/NA	Water	3010A	
680-232196-22 MSD	AF56412	Total/NA	Water	3010A	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals

### Prep Batch: 604817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-41	AF56441	Total/NA	Water	3010A	
680-232196-42	AF56414	Total/NA	Water	3010A	
680-232196-43	AF56423	Total/NA	Water	3010A	
680-232196-44	AF56428	Total/NA	Water	3010A	
MB 160-604817/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232196-43 MS	AF56423	Total/NA	Water	3010A	
680-232196-43 MSD	AF56423	Total/NA	Water	3010A	

### Analysis Batch: 605060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total/NA	Water	6010D	604813
680-232196-2	AF56331	Total/NA	Water	6010D	604813
680-232196-3	AF56332	Total/NA	Water	6010D	604813
680-232196-4	AF56395	Total/NA	Water	6010D	604813
680-232196-5	AF56396	Total/NA	Water	6010D	604813
680-232196-6	AF56397	Total/NA	Water	6010D	604813
680-232196-7	AF56400	Total/NA	Water	6010D	604813
680-232196-8	AF56442	Total/NA	Water	6010D	604813
680-232196-9	AF56443	Total/NA	Water	6010D	604813
680-232196-10	AF56402	Total/NA	Water	6010D	604813
680-232196-11	AF56403	Total/NA	Water	6010D	604813
680-232196-12	AF56404	Total/NA	Water	6010D	604813
680-232196-13	AF56434	Total/NA	Water	6010D	604813
680-232196-14	AF56433	Total/NA	Water	6010D	604813
680-232196-15	AF56435	Total/NA	Water	6010D	604813
680-232196-16	AF56436	Total/NA	Water	6010D	604813
680-232196-17	AF56437	Total/NA	Water	6010D	604813
680-232196-18	AF56438	Total/NA	Water	6010D	604813
680-232196-19	AF56409	Total/NA	Water	6010D	604813
680-232196-20	AF56410	Total/NA	Water	6010D	604813
680-232196-21	AF56411	Total/NA	Water	6010D	604815
680-232196-22	AF56412	Total/NA	Water	6010D	604815
680-232196-23	AF56413	Total/NA	Water	6010D	604815
680-232196-24	AF56430	Total/NA	Water	6010D	604815
680-232196-25	AF56406	Total/NA	Water	6010D	604815
680-232196-26	AF56407	Total/NA	Water	6010D	604815
680-232196-27	AF56418	Total/NA	Water	6010D	604815
680-232196-28	AF56422	Total/NA	Water	6010D	604815
680-232196-29	AF56419	Total/NA	Water	6010D	604815
680-232196-30	AF56425	Total/NA	Water	6010D	604815
680-232196-31	AF56426	Total/NA	Water	6010D	604815
680-232196-32	AF56427	Total/NA	Water	6010D	604815
680-232196-33	AF56408	Total/NA	Water	6010D	604815
680-232196-34	AF56415	Total/NA	Water	6010D	604815
680-232196-35	AF56416	Total/NA	Water	6010D	604815
680-232196-36	AF56417	Total/NA	Water	6010D	604815
680-232196-37	AF56429	Total/NA	Water	6010D	604815
680-232196-38	AF56421	Total/NA	Water	6010D	604815
680-232196-39	AF56428	Total/NA	Water	6010D	604815
680-232196-40	AF56439	Total/NA	Water	6010D	604815

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Analysis Batch: 605060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-41	AF56441	Total/NA	Water	6010D	604817
680-232196-42	AF56414	Total/NA	Water	6010D	604817
680-232196-43	AF56423	Total/NA	Water	6010D	604817
680-232196-44	AF56428	Total/NA	Water	6010D	604817
MB 160-604813/1-A	Method Blank	Total/NA	Water	6010D	604813
MB 160-604815/1-A	Method Blank	Total/NA	Water	6010D	604815
MB 160-604817/1-A	Method Blank	Total/NA	Water	6010D	604817
LCS 160-604813/2-A	Lab Control Sample	Total/NA	Water	6010D	604813
LCS 160-604815/2-A	Lab Control Sample	Total/NA	Water	6010D	604815
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	6010D	604817
680-232196-3 MS	AF56332	Total/NA	Water	6010D	604813
680-232196-3 MSD	AF56332	Total/NA	Water	6010D	604813
680-232196-22 MS	AF56412	Total/NA	Water	6010D	604815
680-232196-22 MSD	AF56412	Total/NA	Water	6010D	604815
680-232196-43 MS	AF56423	Total/NA	Water	6010D	604817
680-232196-43 MSD	AF56423	Total/NA	Water	6010D	604817

### Prep Batch: 768540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-39	AF56428	Total Recoverable	Water	3005A	
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 768544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	3005A	
680-232196-2	AF56331	Total Recoverable	Water	3005A	
680-232196-3	AF56332	Total Recoverable	Water	3005A	
680-232196-4	AF56395	Total Recoverable	Water	3005A	
680-232196-5	AF56396	Total Recoverable	Water	3005A	
680-232196-6	AF56397	Total Recoverable	Water	3005A	
680-232196-7	AF56400	Total Recoverable	Water	3005A	
680-232196-8	AF56442	Total Recoverable	Water	3005A	
680-232196-9	AF56443	Total Recoverable	Water	3005A	
680-232196-10	AF56402	Total Recoverable	Water	3005A	
680-232196-11	AF56403	Total Recoverable	Water	3005A	
680-232196-12	AF56404	Total Recoverable	Water	3005A	
680-232196-13	AF56434	Total Recoverable	Water	3005A	
680-232196-14	AF56433	Total Recoverable	Water	3005A	
680-232196-15	AF56435	Total Recoverable	Water	3005A	
680-232196-16	AF56436	Total Recoverable	Water	3005A	
680-232196-17	AF56437	Total Recoverable	Water	3005A	
680-232196-18	AF56438	Total Recoverable	Water	3005A	
680-232196-19	AF56409	Total Recoverable	Water	3005A	
680-232196-20	AF56410	Total Recoverable	Water	3005A	
MB 680-768544/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768544/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-1 MS	AF56394	Total Recoverable	Water	3005A	
680-232196-1 MSD	AF56394	Total Recoverable	Water	3005A	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals

### Prep Batch: 768552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-21	AF56411	Total Recoverable	Water	3005A	
680-232196-22	AF56412	Total Recoverable	Water	3005A	
680-232196-23	AF56413	Total Recoverable	Water	3005A	
680-232196-24	AF56430	Total Recoverable	Water	3005A	
680-232196-25	AF56406	Total Recoverable	Water	3005A	
680-232196-26	AF56407	Total Recoverable	Water	3005A	
680-232196-27	AF56418	Total Recoverable	Water	3005A	
680-232196-28	AF56422	Total Recoverable	Water	3005A	
680-232196-29	AF56419	Total Recoverable	Water	3005A	
680-232196-30	AF56425	Total Recoverable	Water	3005A	
680-232196-31	AF56426	Total Recoverable	Water	3005A	
680-232196-32	AF56427	Total Recoverable	Water	3005A	
680-232196-33	AF56408	Total Recoverable	Water	3005A	
680-232196-34	AF56415	Total Recoverable	Water	3005A	
680-232196-35	AF56416	Total Recoverable	Water	3005A	
680-232196-36	AF56417	Total Recoverable	Water	3005A	
680-232196-37	AF56429	Total Recoverable	Water	3005A	
680-232196-38	AF56421	Total Recoverable	Water	3005A	
680-232196-40	AF56439	Total Recoverable	Water	3005A	
680-232196-41	AF56441	Total Recoverable	Water	3005A	
MB 680-768552/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768552/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-21 MS	AF56411	Total Recoverable	Water	3005A	
680-232196-21 MSD	AF56411	Total Recoverable	Water	3005A	

### Prep Batch: 768588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total/NA	Water	7470A	
MB 680-768588/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768588/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 768590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-2	AF56331	Total/NA	Water	7470A	
680-232196-3	AF56332	Total/NA	Water	7470A	
680-232196-4	AF56395	Total/NA	Water	7470A	
680-232196-5	AF56396	Total/NA	Water	7470A	
680-232196-6	AF56397	Total/NA	Water	7470A	
680-232196-12	AF56404	Total/NA	Water	7470A	
680-232196-13	AF56434	Total/NA	Water	7470A	
680-232196-14	AF56433	Total/NA	Water	7470A	
680-232196-15	AF56435	Total/NA	Water	7470A	
680-232196-16	AF56436	Total/NA	Water	7470A	
680-232196-23	AF56413	Total/NA	Water	7470A	
680-232196-24	AF56430	Total/NA	Water	7470A	
680-232196-25	AF56406	Total/NA	Water	7470A	
680-232196-26	AF56407	Total/NA	Water	7470A	
680-232196-27	AF56418	Total/NA	Water	7470A	
680-232196-34	AF56415	Total/NA	Water	7470A	
680-232196-35	AF56416	Total/NA	Water	7470A	
680-232196-36	AF56417	Total/NA	Water	7470A	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Prep Batch: 768590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-37	AF56429	Total/NA	Water	7470A	
680-232196-38	AF56421	Total/NA	Water	7470A	
MB 680-768590/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768590/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-232196-38 MS	AF56421	Total/NA	Water	7470A	
680-232196-38 MSD	AF56421	Total/NA	Water	7470A	

### Prep Batch: 768608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42	AF56414	Total Recoverable	Water	3005A	
680-232196-43	AF56423	Total Recoverable	Water	3005A	
680-232196-44	AF56428	Total Recoverable	Water	3005A	
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-42 MS	AF56414	Total Recoverable	Water	3005A	
680-232196-42 MSD	AF56414	Total Recoverable	Water	3005A	

### Prep Batch: 768609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-7	AF56400	Total/NA	Water	7470A	
680-232196-8	AF56442	Total/NA	Water	7470A	
680-232196-9	AF56443	Total/NA	Water	7470A	
680-232196-10	AF56402	Total/NA	Water	7470A	
680-232196-11	AF56403	Total/NA	Water	7470A	
680-232196-17	AF56437	Total/NA	Water	7470A	
680-232196-18	AF56438	Total/NA	Water	7470A	
680-232196-19	AF56409	Total/NA	Water	7470A	
680-232196-20	AF56410	Total/NA	Water	7470A	
680-232196-21	AF56411	Total/NA	Water	7470A	
680-232196-22	AF56412	Total/NA	Water	7470A	
680-232196-28	AF56422	Total/NA	Water	7470A	
680-232196-29	AF56419	Total/NA	Water	7470A	
680-232196-30	AF56425	Total/NA	Water	7470A	
680-232196-31	AF56426	Total/NA	Water	7470A	
680-232196-32	AF56427	Total/NA	Water	7470A	
680-232196-33	AF56408	Total/NA	Water	7470A	
680-232196-39	AF56428	Total/NA	Water	7470A	
680-232196-40	AF56439	Total/NA	Water	7470A	
680-232196-41	AF56441	Total/NA	Water	7470A	
MB 680-768609/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768609/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-232196-33 MS	AF56408	Total/NA	Water	7470A	
680-232196-33 MSD	AF56408	Total/NA	Water	7470A	

### Prep Batch: 768613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42	AF56414	Total Recoverable	Water	3005A	
680-232196-43	AF56423	Total Recoverable	Water	3005A	
680-232196-44	AF56428	Total Recoverable	Water	3005A	
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Prep Batch: 768613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42 MS	AF56414	Total Recoverable	Water	3005A	
680-232196-42 MSD	AF56414	Total Recoverable	Water	3005A	

### Prep Batch: 768648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42	AF56414	Total/NA	Water	7470A	
680-232196-43	AF56423	Total/NA	Water	7470A	
680-232196-44	AF56428	Total/NA	Water	7470A	
MB 680-768648/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768648/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-232196-44 MS	AF56428	Total/NA	Water	7470A	
680-232196-44 MSD	AF56428	Total/NA	Water	7470A	

### Prep Batch: 768857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	3005A	
680-232196-2	AF56331	Total Recoverable	Water	3005A	
680-232196-3	AF56332	Total Recoverable	Water	3005A	
680-232196-4	AF56395	Total Recoverable	Water	3005A	
680-232196-5	AF56396	Total Recoverable	Water	3005A	
680-232196-6	AF56397	Total Recoverable	Water	3005A	
680-232196-7	AF56400	Total Recoverable	Water	3005A	
680-232196-8	AF56442	Total Recoverable	Water	3005A	
680-232196-9	AF56443	Total Recoverable	Water	3005A	
680-232196-10	AF56402	Total Recoverable	Water	3005A	
680-232196-11	AF56403	Total Recoverable	Water	3005A	
680-232196-12	AF56404	Total Recoverable	Water	3005A	
680-232196-13	AF56434	Total Recoverable	Water	3005A	
680-232196-14	AF56433	Total Recoverable	Water	3005A	
680-232196-15	AF56435	Total Recoverable	Water	3005A	
680-232196-16	AF56436	Total Recoverable	Water	3005A	
680-232196-17	AF56437	Total Recoverable	Water	3005A	
680-232196-18	AF56438	Total Recoverable	Water	3005A	
680-232196-19	AF56409	Total Recoverable	Water	3005A	
680-232196-20	AF56410	Total Recoverable	Water	3005A	
MB 680-768857/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768857/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-1 MS	AF56394	Total Recoverable	Water	3005A	
680-232196-1 MSD	AF56394	Total Recoverable	Water	3005A	

### Prep Batch: 768858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-21	AF56411	Total Recoverable	Water	3005A	
680-232196-22	AF56412	Total Recoverable	Water	3005A	
680-232196-23	AF56413	Total Recoverable	Water	3005A	
680-232196-24	AF56430	Total Recoverable	Water	3005A	
680-232196-25	AF56406	Total Recoverable	Water	3005A	
680-232196-26	AF56407	Total Recoverable	Water	3005A	
680-232196-27	AF56418	Total Recoverable	Water	3005A	
680-232196-28	AF56422	Total Recoverable	Water	3005A	
680-232196-29	AF56419	Total Recoverable	Water	3005A	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Prep Batch: 768858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-30	AF56425	Total Recoverable	Water	3005A	
680-232196-31	AF56426	Total Recoverable	Water	3005A	
680-232196-32	AF56427	Total Recoverable	Water	3005A	
680-232196-33	AF56408	Total Recoverable	Water	3005A	
680-232196-34	AF56415	Total Recoverable	Water	3005A	
680-232196-35	AF56416	Total Recoverable	Water	3005A	
680-232196-36	AF56417	Total Recoverable	Water	3005A	
680-232196-37	AF56429	Total Recoverable	Water	3005A	
680-232196-38	AF56421	Total Recoverable	Water	3005A	
680-232196-40	AF56439	Total Recoverable	Water	3005A	
680-232196-41	AF56441	Total Recoverable	Water	3005A	
MB 680-768858/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768858/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-21 MS	AF56411	Total Recoverable	Water	3005A	
680-232196-21 MSD	AF56411	Total Recoverable	Water	3005A	

### Prep Batch: 768859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-39	AF56428	Total Recoverable	Water	3005A	
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 768864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total/NA	Water	7470A	768588
680-232196-2	AF56331	Total/NA	Water	7470A	768590
680-232196-3	AF56332	Total/NA	Water	7470A	768590
680-232196-4	AF56395	Total/NA	Water	7470A	768590
680-232196-5	AF56396	Total/NA	Water	7470A	768590
680-232196-6	AF56397	Total/NA	Water	7470A	768590
680-232196-7	AF56400	Total/NA	Water	7470A	768609
680-232196-8	AF56442	Total/NA	Water	7470A	768609
680-232196-9	AF56443	Total/NA	Water	7470A	768609
680-232196-10	AF56402	Total/NA	Water	7470A	768609
680-232196-11	AF56403	Total/NA	Water	7470A	768609
680-232196-12	AF56404	Total/NA	Water	7470A	768590
680-232196-13	AF56434	Total/NA	Water	7470A	768590
680-232196-14	AF56433	Total/NA	Water	7470A	768590
680-232196-15	AF56435	Total/NA	Water	7470A	768590
680-232196-16	AF56436	Total/NA	Water	7470A	768590
680-232196-17	AF56437	Total/NA	Water	7470A	768609
680-232196-18	AF56438	Total/NA	Water	7470A	768609
680-232196-19	AF56409	Total/NA	Water	7470A	768609
680-232196-20	AF56410	Total/NA	Water	7470A	768609
680-232196-21	AF56411	Total/NA	Water	7470A	768609
680-232196-22	AF56412	Total/NA	Water	7470A	768609
680-232196-23	AF56413	Total/NA	Water	7470A	768590
680-232196-24	AF56430	Total/NA	Water	7470A	768590
680-232196-25	AF56406	Total/NA	Water	7470A	768590
680-232196-26	AF56407	Total/NA	Water	7470A	768590
680-232196-27	AF56418	Total/NA	Water	7470A	768590

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Analysis Batch: 768864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-28	AF56422	Total/NA	Water	7470A	768609
680-232196-29	AF56419	Total/NA	Water	7470A	768609
680-232196-30	AF56425	Total/NA	Water	7470A	768609
680-232196-31	AF56426	Total/NA	Water	7470A	768609
680-232196-32	AF56427	Total/NA	Water	7470A	768609
680-232196-33	AF56408	Total/NA	Water	7470A	768609
680-232196-34	AF56415	Total/NA	Water	7470A	768590
680-232196-35	AF56416	Total/NA	Water	7470A	768590
680-232196-36	AF56417	Total/NA	Water	7470A	768590
680-232196-37	AF56429	Total/NA	Water	7470A	768590
680-232196-38	AF56421	Total/NA	Water	7470A	768590
680-232196-39	AF56428	Total/NA	Water	7470A	768609
680-232196-40	AF56439	Total/NA	Water	7470A	768609
680-232196-41	AF56441	Total/NA	Water	7470A	768609
680-232196-42	AF56414	Total/NA	Water	7470A	768648
680-232196-43	AF56423	Total/NA	Water	7470A	768648
680-232196-44	AF56428	Total/NA	Water	7470A	768648
MB 680-768588/1-A	Method Blank	Total/NA	Water	7470A	768588
MB 680-768590/1-A	Method Blank	Total/NA	Water	7470A	768590
MB 680-768609/1-A	Method Blank	Total/NA	Water	7470A	768609
MB 680-768648/1-A	Method Blank	Total/NA	Water	7470A	768648
LCS 680-768588/2-A	Lab Control Sample	Total/NA	Water	7470A	768588
LCS 680-768590/2-A	Lab Control Sample	Total/NA	Water	7470A	768590
LCS 680-768609/2-A	Lab Control Sample	Total/NA	Water	7470A	768609
LCS 680-768648/2-A	Lab Control Sample	Total/NA	Water	7470A	768648
680-232196-33 MS	AF56408	Total/NA	Water	7470A	768609
680-232196-33 MSD	AF56408	Total/NA	Water	7470A	768609
680-232196-38 MS	AF56421	Total/NA	Water	7470A	768590
680-232196-38 MSD	AF56421	Total/NA	Water	7470A	768590
680-232196-44 MS	AF56428	Total/NA	Water	7470A	768648
680-232196-44 MSD	AF56428	Total/NA	Water	7470A	768648

### Analysis Batch: 768929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	6010D	768857
680-232196-2	AF56331	Total Recoverable	Water	6010D	768857
680-232196-3	AF56332	Total Recoverable	Water	6010D	768857
680-232196-4	AF56395	Total Recoverable	Water	6010D	768857
680-232196-5	AF56396	Total Recoverable	Water	6010D	768857
680-232196-6	AF56397	Total Recoverable	Water	6010D	768857
680-232196-7	AF56400	Total Recoverable	Water	6010D	768857
680-232196-8	AF56442	Total Recoverable	Water	6010D	768857
680-232196-9	AF56443	Total Recoverable	Water	6010D	768857
680-232196-10	AF56402	Total Recoverable	Water	6010D	768857
680-232196-11	AF56403	Total Recoverable	Water	6010D	768857
680-232196-12	AF56404	Total Recoverable	Water	6010D	768857
680-232196-13	AF56434	Total Recoverable	Water	6010D	768857
680-232196-14	AF56433	Total Recoverable	Water	6010D	768857
680-232196-15	AF56435	Total Recoverable	Water	6010D	768857
680-232196-16	AF56436	Total Recoverable	Water	6010D	768857
680-232196-17	AF56437	Total Recoverable	Water	6010D	768857

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Analysis Batch: 768929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-18	AF56438	Total Recoverable	Water	6010D	768857
680-232196-19	AF56409	Total Recoverable	Water	6010D	768857
680-232196-20	AF56410	Total Recoverable	Water	6010D	768857
680-232196-21	AF56411	Total Recoverable	Water	6010D	768858
680-232196-22	AF56412	Total Recoverable	Water	6010D	768858
680-232196-23	AF56413	Total Recoverable	Water	6010D	768858
680-232196-24	AF56430	Total Recoverable	Water	6010D	768858
680-232196-25	AF56406	Total Recoverable	Water	6010D	768858
680-232196-26	AF56407	Total Recoverable	Water	6010D	768858
680-232196-27	AF56418	Total Recoverable	Water	6010D	768858
680-232196-28	AF56422	Total Recoverable	Water	6010D	768858
680-232196-29	AF56419	Total Recoverable	Water	6010D	768858
680-232196-30	AF56425	Total Recoverable	Water	6010D	768858
680-232196-31	AF56426	Total Recoverable	Water	6010D	768858
680-232196-32	AF56427	Total Recoverable	Water	6010D	768858
680-232196-33	AF56408	Total Recoverable	Water	6010D	768858
680-232196-34	AF56415	Total Recoverable	Water	6010D	768858
680-232196-35	AF56416	Total Recoverable	Water	6010D	768858
680-232196-36	AF56417	Total Recoverable	Water	6010D	768858
680-232196-37	AF56429	Total Recoverable	Water	6010D	768858
680-232196-38	AF56421	Total Recoverable	Water	6010D	768858
680-232196-39	AF56428	Total Recoverable	Water	6010D	768859
680-232196-40	AF56439	Total Recoverable	Water	6010D	768858
680-232196-41	AF56441	Total Recoverable	Water	6010D	768858
680-232196-42	AF56414	Total Recoverable	Water	6010D	768608
680-232196-43	AF56423	Total Recoverable	Water	6010D	768608
680-232196-44	AF56428	Total Recoverable	Water	6010D	768608
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	6010D	768608
MB 680-768857/1-A	Method Blank	Total Recoverable	Water	6010D	768857
MB 680-768858/1-A	Method Blank	Total Recoverable	Water	6010D	768858
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	6010D	768859
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768608
LCS 680-768857/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768857
LCS 680-768858/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768858
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768859
680-232196-1 MS	AF56394	Total Recoverable	Water	6010D	768857
680-232196-1 MSD	AF56394	Total Recoverable	Water	6010D	768857
680-232196-21 MS	AF56411	Total Recoverable	Water	6010D	768858
680-232196-21 MSD	AF56411	Total Recoverable	Water	6010D	768858
680-232196-42 MS	AF56414	Total Recoverable	Water	6010D	768608
680-232196-42 MSD	AF56414	Total Recoverable	Water	6010D	768608

### Analysis Batch: 768945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	6020B	768544
680-232196-2	AF56331	Total Recoverable	Water	6020B	768544
680-232196-3	AF56332	Total Recoverable	Water	6020B	768544
680-232196-4	AF56395	Total Recoverable	Water	6020B	768544
680-232196-5	AF56396	Total Recoverable	Water	6020B	768544
680-232196-6	AF56397	Total Recoverable	Water	6020B	768544
680-232196-7	AF56400	Total Recoverable	Water	6020B	768544

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals (Continued)

### Analysis Batch: 768945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-8	AF56442	Total Recoverable	Water	6020B	768544
680-232196-9	AF56443	Total Recoverable	Water	6020B	768544
680-232196-10	AF56402	Total Recoverable	Water	6020B	768544
680-232196-11	AF56403	Total Recoverable	Water	6020B	768544
680-232196-12	AF56404	Total Recoverable	Water	6020B	768544
680-232196-13	AF56434	Total Recoverable	Water	6020B	768544
680-232196-14	AF56433	Total Recoverable	Water	6020B	768544
680-232196-15	AF56435	Total Recoverable	Water	6020B	768544
680-232196-16	AF56436	Total Recoverable	Water	6020B	768544
680-232196-17	AF56437	Total Recoverable	Water	6020B	768544
680-232196-18	AF56438	Total Recoverable	Water	6020B	768544
680-232196-19	AF56409	Total Recoverable	Water	6020B	768544
680-232196-20	AF56410	Total Recoverable	Water	6020B	768544
680-232196-21	AF56411	Total Recoverable	Water	6020B	768552
680-232196-22	AF56412	Total Recoverable	Water	6020B	768552
680-232196-23	AF56413	Total Recoverable	Water	6020B	768552
680-232196-24	AF56430	Total Recoverable	Water	6020B	768552
680-232196-25	AF56406	Total Recoverable	Water	6020B	768552
680-232196-26	AF56407	Total Recoverable	Water	6020B	768552
680-232196-27	AF56418	Total Recoverable	Water	6020B	768552
680-232196-28	AF56422	Total Recoverable	Water	6020B	768552
680-232196-29	AF56419	Total Recoverable	Water	6020B	768552
680-232196-30	AF56425	Total Recoverable	Water	6020B	768552
680-232196-31	AF56426	Total Recoverable	Water	6020B	768552
680-232196-32	AF56427	Total Recoverable	Water	6020B	768552
680-232196-33	AF56408	Total Recoverable	Water	6020B	768552
680-232196-34	AF56415	Total Recoverable	Water	6020B	768552
680-232196-35	AF56416	Total Recoverable	Water	6020B	768552
680-232196-36	AF56417	Total Recoverable	Water	6020B	768552
680-232196-37	AF56429	Total Recoverable	Water	6020B	768552
680-232196-38	AF56421	Total Recoverable	Water	6020B	768552
680-232196-39	AF56428	Total Recoverable	Water	6020B	768540
680-232196-40	AF56439	Total Recoverable	Water	6020B	768552
680-232196-41	AF56441	Total Recoverable	Water	6020B	768552
680-232196-42	AF56414	Total Recoverable	Water	6020B	768613
680-232196-43	AF56423	Total Recoverable	Water	6020B	768613
680-232196-44	AF56428	Total Recoverable	Water	6020B	768613
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	6020B	768540
MB 680-768544/1-A	Method Blank	Total Recoverable	Water	6020B	768544
MB 680-768552/1-A	Method Blank	Total Recoverable	Water	6020B	768552
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	6020B	768613
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768540
LCS 680-768544/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768544
LCS 680-768552/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768552
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768613
680-232196-1 MS	AF56394	Total Recoverable	Water	6020B	768544
680-232196-1 MSD	AF56394	Total Recoverable	Water	6020B	768544
680-232196-21 MS	AF56411	Total Recoverable	Water	6020B	768552
680-232196-21 MSD	AF56411	Total Recoverable	Water	6020B	768552
680-232196-42 MS	AF56414	Total Recoverable	Water	6020B	768613
680-232196-42 MSD	AF56414	Total Recoverable	Water	6020B	768613

# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Metals

### Analysis Batch: 769014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	6020B	768544
680-232196-2	AF56331	Total Recoverable	Water	6020B	768544
680-232196-3	AF56332	Total Recoverable	Water	6020B	768544
680-232196-4	AF56395	Total Recoverable	Water	6020B	768544
680-232196-5	AF56396	Total Recoverable	Water	6020B	768544
680-232196-6	AF56397	Total Recoverable	Water	6020B	768544
680-232196-39	AF56428	Total Recoverable	Water	6020B	768540
MB 680-768544/1-A	Method Blank	Total Recoverable	Water	6020B	768544
LCS 680-768544/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768544
680-232196-1 MS	AF56394	Total Recoverable	Water	6020B	768544
680-232196-1 MSD	AF56394	Total Recoverable	Water	6020B	768544

### Analysis Batch: 769167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-19	AF56409	Total Recoverable	Water	6010D	768857
680-232196-20	AF56410	Total Recoverable	Water	6010D	768857
680-232196-21	AF56411	Total Recoverable	Water	6010D	768858
680-232196-21 MS	AF56411	Total Recoverable	Water	6010D	768858
680-232196-21 MSD	AF56411	Total Recoverable	Water	6010D	768858

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56394**

**Lab Sample ID: 680-232196-1**

Date Collected: 02/14/23 12:33

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:21
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 13:50
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:05
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:30
Total/NA	Prep	7470A			768588	BCB	EET SAV	03/20/23 12:30
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/20/23 19:57

**Client Sample ID: AF56331**

**Lab Sample ID: 680-232196-2**

Date Collected: 02/14/23 13:51

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:31
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:13
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:16
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:50
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:40

**Client Sample ID: AF56332**

**Lab Sample ID: 680-232196-3**

Date Collected: 02/14/23 15:22

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:40
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:18
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:20
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:54
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:20

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56395**

**Lab Sample ID: 680-232196-4**

Date Collected: 02/15/23 11:36

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:44
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:36
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:24
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:58
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:56

**Client Sample ID: AF56396**

**Lab Sample ID: 680-232196-5**

Date Collected: 02/15/23 13:21

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:47
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:41
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:28
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 10:02
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:04

**Client Sample ID: AF56397**

**Lab Sample ID: 680-232196-6**

Date Collected: 02/16/23 10:53

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:50
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:45
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:32
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 10:06
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:43



## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56400**

**Lab Sample ID: 680-232196-7**

Date Collected: 02/16/23 12:55

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:53
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:50
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:44
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:09

**Client Sample ID: AF56442**

**Lab Sample ID: 680-232196-8**

Date Collected: 02/16/23 14:07

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:57
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:08
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:48
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:19

**Client Sample ID: AF56443**

**Lab Sample ID: 680-232196-9**

Date Collected: 02/16/23 14:12

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:00
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:13
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:52
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:52

**Client Sample ID: AF56402**

**Lab Sample ID: 680-232196-10**

Date Collected: 02/27/23 12:47

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:03

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56402**

**Lab Sample ID: 680-232196-10**

Date Collected: 02/27/23 12:47

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:18
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:56
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:42

**Client Sample ID: AF56403**

**Lab Sample ID: 680-232196-11**

Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:06
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:22
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:00
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:32

**Client Sample ID: AF56404**

**Lab Sample ID: 680-232196-12**

Date Collected: 02/27/23 10:02

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:10
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:27
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:03
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:50

**Client Sample ID: AF56434**

**Lab Sample ID: 680-232196-13**

Date Collected: 02/27/23 15:44

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:19
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:32

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56434**

**Lab Sample ID: 680-232196-13**

Date Collected: 02/27/23 15:44

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:07
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:36

**Client Sample ID: AF56433**

**Lab Sample ID: 680-232196-14**

Date Collected: 02/28/23 12:58

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:23
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:37
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:11
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:16

**Client Sample ID: AF56435**

**Lab Sample ID: 680-232196-15**

Date Collected: 02/28/23 11:44

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:26
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:42
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:15
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:06

**Client Sample ID: AF56436**

**Lab Sample ID: 680-232196-16**

Date Collected: 02/28/23 10:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:29
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:46
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:19

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56436**

**Lab Sample ID: 680-232196-16**

Date Collected: 02/28/23 10:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:39

**Client Sample ID: AF56437**

**Lab Sample ID: 680-232196-17**

Date Collected: 02/28/23 10:24

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:32
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:51
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:31
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:35

**Client Sample ID: AF56438**

**Lab Sample ID: 680-232196-18**

Date Collected: 02/28/23 14:31

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:36
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:10
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:35
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:32

**Client Sample ID: AF56409**

**Lab Sample ID: 680-232196-19**

Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:39
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 11:50
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:14
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:39

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56409**

**Lab Sample ID: 680-232196-19**

Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:12

**Client Sample ID: AF56410**

**Lab Sample ID: 680-232196-20**

Date Collected: 03/06/23 12:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:42
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 11:53
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:19
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:43
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:59

**Client Sample ID: AF56411**

**Lab Sample ID: 680-232196-21**

Date Collected: 03/06/23 11:08

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:50
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 11:56
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:42
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:02
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:38

**Client Sample ID: AF56412**

**Lab Sample ID: 680-232196-22**

Date Collected: 03/06/23 15:15

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:00
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:51

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56412**

**Lab Sample ID: 680-232196-22**

Date Collected: 03/06/23 15:15

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:14
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:20

**Client Sample ID: AF56413**

**Lab Sample ID: 680-232196-23**

Date Collected: 03/06/23 13:41

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:03
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:23
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:18
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:46

**Client Sample ID: AF56430**

**Lab Sample ID: 680-232196-24**

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:06
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:28
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:22
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:10

**Client Sample ID: AF56406**

**Lab Sample ID: 680-232196-25**

Date Collected: 03/09/23 10:29

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:09
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:33
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:26

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56406**

**Lab Sample ID: 680-232196-25**

Date Collected: 03/09/23 10:29

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:13

**Client Sample ID: AF56407**

**Lab Sample ID: 680-232196-26**

Date Collected: 03/09/23 10:34

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:13
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:38
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:30
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:03

**Client Sample ID: AF56418**

**Lab Sample ID: 680-232196-27**

Date Collected: 03/09/23 12:07

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:22
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:42
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:41
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:36

**Client Sample ID: AF56422**

**Lab Sample ID: 680-232196-28**

Date Collected: 03/09/23 13:19

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:26
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:47
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:45
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:24

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56419**

**Lab Sample ID: 680-232196-29**

Date Collected: 03/07/23 14:51

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:29
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:52
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:49
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:22

**Client Sample ID: AF56425**

**Lab Sample ID: 680-232196-30**

Date Collected: 03/07/23 12:49

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:32
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:10
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:53
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:05

**Client Sample ID: AF56426**

**Lab Sample ID: 680-232196-31**

Date Collected: 03/07/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:35
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:15
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:57
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:55

**Client Sample ID: AF56427**

**Lab Sample ID: 680-232196-32**

Date Collected: 03/07/23 10:27

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:39



# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56427**

**Lab Sample ID: 680-232196-32**

Date Collected: 03/07/23 10:27

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:19
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:01
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:35

**Client Sample ID: AF56408**

**Lab Sample ID: 680-232196-33**

Date Collected: 03/08/23 13:38

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:42
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:24
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:05
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:16

**Client Sample ID: AF56415**

**Lab Sample ID: 680-232196-34**

Date Collected: 03/08/23 15:13

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:45
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:29
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:09
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:43

**Client Sample ID: AF56416**

**Lab Sample ID: 680-232196-35**

Date Collected: 03/08/23 10:09

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:48
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:34

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56416**

**Lab Sample ID: 680-232196-35**

Date Collected: 03/08/23 10:09

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:13
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:23

**Client Sample ID: AF56417**

**Lab Sample ID: 680-232196-36**

Date Collected: 03/08/23 10:14

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:52
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:38
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:17
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:10

**Client Sample ID: AF56429**

**Lab Sample ID: 680-232196-37**

Date Collected: 03/08/23 12:12

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:01
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:43
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:28
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:07

**Client Sample ID: AF56421**

**Lab Sample ID: 680-232196-38**

Date Collected: 03/01/23 14:41

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:05
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:48
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:32

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56421**

**Lab Sample ID: 680-232196-38**

Date Collected: 03/01/23 14:41

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:26

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232196-39**

Date Collected: 03/01/23 13:37

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:34
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:52
Total Recoverable	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:45
Total Recoverable	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:19
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:39

**Client Sample ID: AF56439**

**Lab Sample ID: 680-232196-40**

Date Collected: 03/01/23 10:22

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:08
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:11
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:36
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:15

**Client Sample ID: AF56441**

**Lab Sample ID: 680-232196-41**

Date Collected: 03/01/23 11:45

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:11
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:24
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:40

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56441**

**Lab Sample ID: 680-232196-41**

Date Collected: 03/01/23 11:45

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			768609	BCB	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:02

**Client Sample ID: AF56414**

**Lab Sample ID: 680-232196-42**

Date Collected: 03/02/23 12:46

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 10:48
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:34
Total Recoverable	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:04
Total/NA	Prep	7470A			768648	BCB	EET SAV	03/20/23 15:26
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:17

**Client Sample ID: AF56423**

**Lab Sample ID: 680-232196-43**

Date Collected: 03/02/23 10:56

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 10:58
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:38
Total Recoverable	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:15
Total/NA	Prep	7470A			768648	BCB	EET SAV	03/20/23 15:26
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:02

**Client Sample ID: AF56428**

**Lab Sample ID: 680-232196-44**

Date Collected: 03/02/23 00:00

Matrix: Water

Date Received: 03/17/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:01
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:11
Total Recoverable	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:19
Total/NA	Prep	7470A			768648	BCB	EET SAV	03/20/23 15:26
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:14

# Lab Chronicle

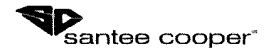
Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858  
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Santee Cooper  
One Riverwood Drive  
Moncks Corner, SC 29461  
Phone (843)761-8000 Ext. 5148  
Fax. (843)761-4175

# Chain of Custody

TOTAL

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS	SEE BELOW
AF56394	WAP-1	2/14/23	1233	ZDM ML	1	P	G	GW	2	SEE SHEET FOR RLS	X	
31	WBW-1		1351							WHERE APPLICABLE		
32	WBW-A1-1		1522							HG 7470		
AF56395	WAP-2	2/15/23	1136							B-6010		
96	WAP-3		1321							ALL OTHERS 6020.		
AF56397	WAP-4	2/16/23	1053	ZDM MG						* PLEASE SEND SAMPLES TO ST LOUIS FOR B.		
400	WAP-7		1255									
442	WLF A2-6		1407									
443	WLF A2 6D		1412									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	3/16/23	1300	<i>[Signature]</i>		03/17/23	10:30

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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10-3/18-2



Matrix codes. GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

680-232196 Chain of Custody



# Chain of Custody

TOTAL

Customer Email/Report Recipient: lcwillia@santecooper.com Date Results Needed by:                      Project/Task/Unit #: 125915 / JM02.09.G08.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOTAL METALS SEE BELOW
AF56402	WAP 9	2/21/23	1247	EDM ML	1	P	G	GW	2	SEE SHEET FOR RLS	X
03	WAP-10		0957							WHERE APPLICABLE.	
04	WAP-10D		1002							HG-7470 B-6010	
434	WLF-A1-2		1544							ALL OTHERS 6020.	
AF56433	WLF-A1-1	2/23/23	1258							* PLEASE SEND OUT FOR BORON.	
35	WLF-A1-3		1144								
36	WLF-A1-4		1019								
37	WLF-A1-4D		1024								
38	WLF-A1-5		1431								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	3/16/23	1300	<i>OMP</i>		03/17/23	10:30

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



# Chain of Custody

TESTAL

Customer Email/Report Recipient: LCWILLIA@santeecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JMO2 09. G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOTAL METALS	SEE BELOW
AF56409	WAP-14	3/6/23	1214	EDM ML	1	P	G	GW	2	SEE SHEET FOR RLS WHERE APPLICABLE	X	
10	WAP-14D		1219							HG-7470 B-6010		
11	WAP-14A		1108							ALL OTHERS 6020.		
12	WAP-14B		1515							* PLEASE SEND CUT FOR BORON.		
13	WAP-14C		1341									
30	WAP-29		1010									
AF56406	WAP-12	3/9/23	1029									
07	WAP-12D		1034									
18	WAP-18		1207									
22	WAP-22		1319									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	25574	3/16/23	1300	<i>[Signature]</i>		03/17/23	10:20
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-llimestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)





# Chain of Custody

TOTAL

Customer Email/Report Recipient: LCWILLIA @santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JMD2.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS SEE BELOW
AF56419	WAP-19	3/7/23	1451	EDM ML		P	G	GW	2	SEE SHEET FOR RLS WHERE APPLICABLE	X
25	WAP-25		1249							HG-7470 B-6010	
26	WAP-26		1022							ALL OTHERS 6020.	
27	WAP-26D		1027								
AF56408	WAP-13	3/8/23	1338							* PLEASE SEND CUT FOR BCRON.	
15	WAP-16		1513								
16	WAP-17		1009								
17	WAP-17D		1014								
29	WAP-28		1212								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	3/16/23	1300	<i>[Signature]</i>		03/16/23	10:00

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes. GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

# Chain of Custody



TOTAL

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09. G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOTAL METALS	SEE BELOW
AF56421	WAP-21	3/1/23	1441	ZDM ML	1	P	G	GW	2	SEE SHEET FOR RLS WHERE APPLICABLE.	X	
24	WAP-24		1337									
39	WLF-A2-1		1022							Hg-2470 B-6010		
41	WLF-A2-2		1145							ALL OTHERS 6020		
AF56414	WAP-15	3/2/23	1246				G	GW				
23	WAP-23		0952							* PLEASE SEND OUT FOR BORON.		
28	WAP-27		1056									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35574	3/16/23	1300	<i>[Signature]</i>		03/17/23	10:30

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input checked="" type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input checked="" type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input checked="" type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

**Table of Reporting Limits for Groundwater Samples-- Metals Only**

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b> Client Contact: <b>Lanier, Jerry A</b> Shipping/Receiving Company: <b>TestAmerica Laboratories, Inc.</b> Address: <b>13715 Rider Trail North, Earth City, MO, 63045</b> Phone: <b>314-298-8566(Tel) 314-298-8757(Fax)</b> Email:		Lab PM: <b>Lanier, Jerry A</b> E-Mail: <b>Jerry.Lanier@et.eurofins.com</b> State of Origin: <b>South Carolina</b> Carrier Tracking No(s): <b>680-731060.1</b> Page: <b>Page 1 of 5</b> Job #: <b>680-232196-1</b>						
Due Date Requested: <b>3/27/2023</b> TAT Requested (days):		Accreditation Required (See note): <b>NELAP - Florida, State - South Carolina, State Program</b>						
PO #: <b>68008190</b> WO #: <b>SSOW#</b> Project #: <b>68008190</b> Site:	Analysis Requested:	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=soil, B=leachate, A=air)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
AF56394 (680-232196-1)	2/14/23	12:33 Eastern	Water	Water	X	X	1	
AF56331 (680-232196-2)	2/14/23	13:51 Eastern	Water	Water	X	X	1	
AF56332 (680-232196-3)	2/14/23	15:22 Eastern	Water	Water	X	X	1	
AF56395 (680-232196-4)	2/15/23	11:36 Eastern	Water	Water	X	X	1	
AF56396 (680-232196-5)	2/15/23	13:21 Eastern	Water	Water	X	X	1	
AF56397 (680-232196-6)	2/16/23	10:53 Eastern	Water	Water	X	X	1	
AF56400 (680-232196-7)	2/16/23	12:55 Eastern	Water	Water	X	X	1	
AF56442 (680-232196-8)	2/16/23	14:07 Eastern	Water	Water	X	X	1	
AF56443 (680-232196-9)	2/16/23	14:12 Eastern	Water	Water	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/mainx being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_  
 Primary Deliverable Rank: 1  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: **FEA** Date/Time: **3/22/23 09:10**  
 Relinquished by: **Shantay** Date/Time: **3/22/23 09:10**  
 Company: **STAS**  
 Company: **STAS**  
 Company: **STAS**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks:



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Lanier, Jerry A	Carrier Tracking No(s)	COC No. 680-731060.2
Shipping/Receiving		E-Mail: Jerry.Lanier@et.eurofins.com	State of Origin: South Carolina	Page: Page 2 of 5
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida, State - South Carolina; State Program		
Address: 13715 Rider Trail North,		Job #: 680-232196-1		
City: Earth City		<b>Analysis Requested</b>		
State, Zip: MO, 63045		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Other: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		
Email:		Total Number of containers		
Project Name: 125915/JM02.09.G01.1/36500		Special Instructions/Note:		
Site:				
<b>Due Date Requested:</b> 3/27/2023				
<b>TAT Requested (days):</b>				
PO #				
WO #				
Project # 68008190				
SSOW#				
<b>Sample Identification - Client ID (Lab ID)</b>				
Sample	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewer, Spill, Oil, etc.)
AF56402 (680-232196-10)	2/27/23	12:47 Eastern	Water	Water
AF56403 (680-232196-11)	2/27/23	09:57 Eastern	Water	Water
AF56404 (680-232196-12)	2/27/23	10:02 Eastern	Water	Water
AF56434 (680-232196-13)	2/27/23	15:44 Eastern	Water	Water
AF56433 (680-232196-14)	2/28/23	12:58 Eastern	Water	Water
AF56435 (680-232196-15)	2/28/23	11:44 Eastern	Water	Water
AF56436 (680-232196-16)	2/28/23	10:19 Eastern	Water	Water
AF56437 (680-232196-17)	2/28/23	10:24 Eastern	Water	Water
AF56438 (680-232196-18)	2/28/23	14:31 Eastern	Water	Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>				
<b>Possible Hazard Identification</b>				
Unconfirmed				
Deliverable Requested I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 1				
Special Instructions/QC Requirements:				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Empty Kit Relinquished by:				
Date/Time:				
Relinquished by:				
Date/Time:				
Relinquished by:				
Date/Time:				
Custody Seals Intact:				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks:				

## Chain of Custody Record



Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Lab PM: Lanier, Jerry A	Carrier Tracking No(s): 680-731060 3
Client Contact: Shipping/Receiving		State of Origin: South Carolina	COC No: 680-731060 3
Company: Tes/America Laboratories, Inc.		E-Mail: Jerry.Lanier@et-eurofins.com	Page: Page 3 of 5
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program	Job #: 680-232196-1
City: Earth City	Due Date Requested: 3/27/2023	<b>Preservation Codes:</b>	
State, Zip: MO. 63045	TAT Requested (days):	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify)	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Other:	
Email:	WO #:		
Project Name: 125915/JM02.09.G01.1/36500	Project #: 68008190		
Site:	SSOW#:		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/3010A_2% Lithium by ICP	Total Number of Containers	Special Instructions/Note:
AF56409 (680-232196-19)	3/6/23	12:14 Eastern	Water	Water	X	X		1	
AF56410 (680-232196-20)	3/6/23	12:19 Eastern	Water	Water	X	X		1	
AF56411 (680-232196-21)	3/6/23	11:08 Eastern	Water	Water	X	X		1	
AF56412 (680-232196-22)	3/6/23	15:15 Eastern	Water	Water	X	X		1	
AF56413 (680-232196-23)	3/6/23	13:41 Eastern	Water	Water	X	X		1	
AF56430 (680-232196-24)	3/6/23	10:10 Eastern	Water	Water	X	X		1	
AF56406 (680-232196-25)	3/9/23	10:29 Eastern	Water	Water	X	X		1	
AF56407 (680-232196-26)	3/9/23	10:34 Eastern	Water	Water	X	X		1	
AF56418 (680-232196-27)	3/9/23	12:07 Eastern	Water	Water	X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

**Possible Hazard Identification**

Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 1  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No  
 Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM Lanier, Jerry A	Carrier Tracking No(s)	COC No 680-731060 4
Client Contact Shipping/Receiving		E-Mail Jerry.Lanier@et.eurofins.com	State of Origin South Carolina	Page Page 4 of 5
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program ...		
Address 13715 Rider Trail North,		Job # 680-232196-1		
City Earth City		<b>Preservation Codes:</b>		
State, Zip MO, 63045		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Phone 314-298-8566(Tel) 314-298-8757(Fax)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Email				
Project Name 125915/JM02.09 G01.1/36500		<b>Analysis Requested</b>		
Site SSOW#				
Due Date Requested: 3/27/2023				
TAT Requested (days):				
PO #				
WO #				
Project # 680008190				
SSOW#				
		6010D/3010A_2% Lithium by ICP		
		Field Filtered Sample (Yes or No)		
		Perform MS/MSD (Yes or No)		
		Total Number of Containers		
		Special Instructions/Note:		
<b>Sample Identification - Client ID (Lab ID)</b>				
AF56422 (680-232196-28)	Sample Date 3/9/23	Sample Time 13:19 Eastern	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overstabil, Sterile/aseptic)
AF56419 (680-232196-29)	3/7/23	14:51 Eastern		Water
AF56425 (680-232196-30)	3/7/23	12:49 Eastern		Water
AF56426 (680-232196-31)	3/7/23	10:22 Eastern		Water
AF56427 (680-232196-32)	3/7/23	10:27 Eastern		Water
AF56408 (680-232196-33)	3/8/23	13:38 Eastern		Water
AF56415 (680-232196-34)	3/8/23	15:13 Eastern		Water
AF56416 (680-232196-35)	3/8/23	10:09 Eastern		Water
AF56417 (680-232196-36)	3/8/23	10:14 Eastern		Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>				
<b>Possible Hazard Identification</b>				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 1				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements:				
Time: _____ Method of Shipment: _____				
Received by: _____ Date/Time: _____ Company: _____				
Received by: <i>Brianna Shantay</i> Date/Time: <i>3/22/23 0910</i> Company: <i>ETA-ATL</i>				
Received by: _____ Date/Time: _____ Company: _____				
Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks: _____				
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ				



# Chain of Custody Record



Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Lab PM Lanier, Jerry A	Carrier Tracking No(s)	COC No: 680-731060.5					
Client Contact Shipping/Receiving		E-Mail Jerry.Lanier@et-eurofins.com	State of Origin South Carolina	Page Page 5 of 5					
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Florida, State - South Carolina, State Program							
Address 13715 Rider Trail North,		Job # 680-232196-1							
City Earth City		<b>Analysis Requested</b>							
State, Zip MO, 63045		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - HZSO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
Phone 314-298-8566(Tel) 314-298-8757(Fax)		Other: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA							
Email									
Project Name 125915/JM02.09 G01.1/36500									
Site SSOW#									
Due Date Requested: 3/27/2023									
TAT Requested (days):									
PO #									
WO #									
Project # 68008190									
SSOW#									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, G=grab)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	6010D/3010A, % Lithium by ICP	Total Number of Containers	Special Instructions/Note:
AF56429 (680-232196-37)	3/8/23	12:12 Eastern	Water	Water	X	X		1	
AF56421 (680-232196-38)	3/1/23	14:41 Eastern	Water	Water	X	X		1	
AF56428 (680-232196-39)	3/1/23	13:37 Eastern	Water	Water	X	X		1	
AF56439 (680-232196-40)	3/1/23	10:22 Eastern	Water	Water	X	X		1	
AF56441 (680-232196-41)	3/1/23	11:45 Eastern	Water	Water	X	X		1	
AF56414 (680-232196-42)	3/2/23	12:46 Eastern	Water	Water	X	X		1	
AF56423 (680-232196-43)	3/2/23	10:56 Eastern	Water	Water	X	X		1	
AF56428 (680-232196-44)	3/2/23	Eastern	Water	Water	X	X		1	
(44)									
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all required accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>									
<b>Possible Hazard Identification</b>									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1									
Empty Kit Relinquished by: _____ Date: _____ Time: _____									
Relinquished by: _____ Date/Time: _____ Company: _____									
Relinquished by: <b>FEDEX</b> Date/Time: _____ Company: _____									
Relinquished by: _____ Date/Time: _____ Company: _____									
Custody Seals Intact: _____ Custody Seal No.: _____									
Cooler Temperature(s) °C and Other Remarks: _____									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____									
Received by: _____ Date/Time: _____ Company: _____ Received by: <b>Shantay - January 3/22/23 0910</b> Date/Time: _____ Company: <b>ETA-STL</b> Received by: _____ Date/Time: _____ Company: _____									



## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-232196-1

Login Number: 232196

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-232196-1

**Login Number: 232196**

**List Number: 2**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 03/22/23 01:44 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 4/24/2023 3:13:36 PM

## JOB DESCRIPTION

125915/JM02.09.G01.1/36500

## JOB NUMBER

680-233704-2

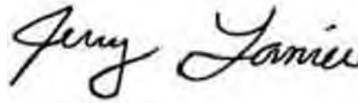
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

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**Job ID: 680-233704-2**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative**  
**680-233704-2**

**Receipt**

The samples were received on 4/18/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.4°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233704-10	AF60585	GW	04/10/23 12:20	04/18/23 10:00
680-233704-11	AF60586	GW	04/10/23 12:25	04/18/23 10:00
680-233704-12	AF60587	GW	04/10/23 09:58	04/18/23 10:00
680-233704-13	AF60588	GW	04/10/23 11:04	04/18/23 10:00

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

## Qualifiers

Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

### Client Sample ID: AF60585

### Lab Sample ID: 680-233704-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	89.3		3.00		ug/L	1		6020B	Total Recoverable
Barium	136		5.00		ug/L	1		6020B	Total Recoverable
Calcium	95700		500		ug/L	1		6020B	Total Recoverable
Cobalt	0.570		0.500		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF60586

### Lab Sample ID: 680-233704-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	94.8		3.00		ug/L	1		6020B	Total Recoverable
Barium	130		5.00		ug/L	1		6020B	Total Recoverable
Calcium	94800		500		ug/L	1		6020B	Total Recoverable
Cobalt	0.535		0.500		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF60587

### Lab Sample ID: 680-233704-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	229		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	1.00		0.500		ug/L	1		6020B	Total Recoverable
Calcium	75200		500		ug/L	1		6020B	Total Recoverable
Cobalt	17.7		0.500		ug/L	1		6020B	Total Recoverable
Lead	3.09		2.50		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF60588

### Lab Sample ID: 680-233704-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34.4		5.00		ug/L	1		6020B	Total Recoverable
Calcium	576000		5000		ug/L	10		6020B	Total Recoverable
Cobalt	7.19		0.500		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

**Client Sample ID: AF60585**

**Lab Sample ID: 680-233704-10**

Date Collected: 04/10/23 12:20

Matrix: GW

Date Received: 04/18/23 10:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:16	1
<b>Arsenic</b>	<b>89.3</b>		3.00		ug/L		04/20/23 05:28	04/20/23 17:16	1
<b>Barium</b>	<b>136</b>		5.00		ug/L		04/20/23 05:28	04/20/23 17:16	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:16	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:16	1
<b>Calcium</b>	<b>95700</b>		500		ug/L		04/20/23 05:28	04/20/23 17:16	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:16	1
<b>Cobalt</b>	<b>0.570</b>		0.500		ug/L		04/20/23 05:28	04/20/23 17:16	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:16	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:16	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:16	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 13:59	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

**Client Sample ID: AF60586**

**Lab Sample ID: 680-233704-11**

Date Collected: 04/10/23 12:25

Matrix: GW

Date Received: 04/18/23 10:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
<b>Arsenic</b>	<b>94.8</b>		3.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
<b>Barium</b>	<b>130</b>		5.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:21	1
<b>Calcium</b>	<b>94800</b>		500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
<b>Cobalt</b>	<b>0.535</b>		0.500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:21	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:21	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:21	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 14:04	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

**Client Sample ID: AF60587**

**Lab Sample ID: 680-233704-12**

Date Collected: 04/10/23 09:58

Matrix: GW

Date Received: 04/18/23 10:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
Arsenic	3.00	U	3.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
<b>Barium</b>	<b>229</b>		5.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
<b>Beryllium</b>	<b>1.00</b>		0.500		ug/L		04/20/23 05:28	04/20/23 17:25	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:25	1
<b>Calcium</b>	<b>75200</b>		500		ug/L		04/20/23 05:28	04/20/23 17:25	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
<b>Cobalt</b>	<b>17.7</b>		0.500		ug/L		04/20/23 05:28	04/20/23 17:25	1
<b>Lead</b>	<b>3.09</b>		2.50		ug/L		04/20/23 05:28	04/20/23 17:25	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:25	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:25	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 14:06	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

**Client Sample ID: AF60588**

**Lab Sample ID: 680-233704-13**

Date Collected: 04/10/23 11:04

Matrix: GW

Date Received: 04/18/23 10:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
Arsenic	3.00	U	3.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
<b>Barium</b>	<b>34.4</b>		5.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:29	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:29	1
<b>Calcium</b>	<b>576000</b>		5000		ug/L		04/20/23 05:28	04/21/23 11:13	10
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
<b>Cobalt</b>	<b>7.19</b>		0.500		ug/L		04/20/23 05:28	04/20/23 17:29	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:29	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:29	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:29	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 14:07	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-774333/1-A  
 Matrix: Water  
 Analysis Batch: 774617

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 774333

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Arsenic	3.00	U	3.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Barium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Calcium	500	U	500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Cobalt	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 16:16	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 16:16	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 16:16	1

Lab Sample ID: LCS 680-774333/2-A  
 Matrix: Water  
 Analysis Batch: 774617

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 774333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	111.2		ug/L		111	80 - 120
Barium	100	106.3		ug/L		106	80 - 120
Beryllium	50.0	54.86		ug/L		110	80 - 120
Cadmium	50.0	55.87		ug/L		112	80 - 120
Calcium	5000	5504		ug/L		110	80 - 120
Chromium	100	113.4		ug/L		113	80 - 120
Cobalt	50.0	53.95		ug/L		108	80 - 120
Lead	500	522.7		ug/L		105	80 - 120
Selenium	100	108.4		ug/L		108	80 - 120
Thallium	50.0	52.38		ug/L		105	80 - 120

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-774521/1-A  
 Matrix: Water  
 Analysis Batch: 774740

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 774521

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 13:47	1

Lab Sample ID: LCS 680-774521/2-A  
 Matrix: Water  
 Analysis Batch: 774740

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 774521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits



# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

## Metals

### Prep Batch: 774333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total Recoverable	GW	3005A	
680-233704-11	AF60586	Total Recoverable	GW	3005A	
680-233704-12	AF60587	Total Recoverable	GW	3005A	
680-233704-13	AF60588	Total Recoverable	GW	3005A	
MB 680-774333/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774333/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 774521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total/NA	GW	7470A	
680-233704-11	AF60586	Total/NA	GW	7470A	
680-233704-12	AF60587	Total/NA	GW	7470A	
680-233704-13	AF60588	Total/NA	GW	7470A	
MB 680-774521/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774521/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 774617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total Recoverable	GW	6020B	774333
680-233704-11	AF60586	Total Recoverable	GW	6020B	774333
680-233704-12	AF60587	Total Recoverable	GW	6020B	774333
680-233704-13	AF60588	Total Recoverable	GW	6020B	774333
MB 680-774333/1-A	Method Blank	Total Recoverable	Water	6020B	774333
LCS 680-774333/2-A	Lab Control Sample	Total Recoverable	Water	6020B	774333

### Analysis Batch: 774740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total/NA	GW	7470A	774521
680-233704-11	AF60586	Total/NA	GW	7470A	774521
680-233704-12	AF60587	Total/NA	GW	7470A	774521
680-233704-13	AF60588	Total/NA	GW	7470A	774521
MB 680-774521/1-A	Method Blank	Total/NA	Water	7470A	774521
LCS 680-774521/2-A	Lab Control Sample	Total/NA	Water	7470A	774521

### Analysis Batch: 774895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-13	AF60588	Total Recoverable	GW	6020B	774333

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

**Client Sample ID: AF60585**

**Lab Sample ID: 680-233704-10**

Date Collected: 04/10/23 12:20

Matrix: GW

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:16
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 13:59

**Client Sample ID: AF60586**

**Lab Sample ID: 680-233704-11**

Date Collected: 04/10/23 12:25

Matrix: GW

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:21
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 14:04

**Client Sample ID: AF60587**

**Lab Sample ID: 680-233704-12**

Date Collected: 04/10/23 09:58

Matrix: GW

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:25
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 14:06

**Client Sample ID: AF60588**

**Lab Sample ID: 680-233704-13**

Date Collected: 04/10/23 11:04

Matrix: GW

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:29
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		10	774895	BWR	EET SAV	04/21/23 11:13
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 14:07

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC: Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW
AF60585	WAP-27	4/10/23	1220	ZDM BWM	1	P	G	GW	2	Hg-7470	X
86	WAP-27D		1225							ALL OTHERS 6020.	
87	WAP-28		0958							PLEASE REFER TO SHEET FOR RLS.	
88	WAP-29		1104								
										* PLEASE RETURN CODER.	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	4/17/23	1300	<i>ZDM</i>	M	4/18/23	1000
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Napthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> Flashpoint Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <b>GOFER</b>
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

**Table of Reporting Limits for Groundwater  
Samples-- Metals Only**

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---



# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125915/JM02.08.G01.5/36500 Rerun request for any flagged QC: Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS -SEE BELOW
AF60141	GGSMW-4	4/4/23	1138	ZDM BMM	1	P	G	GW	2	METHOD 6020	X
42	5		1300							PLEASE REFER TO SHEET FOR RLS.	
43	6		1033								
44	9		1223							* PLEASE RETURN COOLER.	
AF60138	1	4/3/23	1033								
39	2		1141								
40	3		1403								
45	10		1320								
46	11		1226								



680-233704 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	4/17/23	1300	<i>[Signature]</i>	TR	4-18-23	1020

Sample Receiving (Internal Use Only)  
 TEMP (°C): 15.8 Initial:       
 Correct pH: Yes  No   
 Preservative Lot#:       
 Date/Time/Init for preservative:     

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AlM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-llimestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santeecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC Yes (No)

**Analysis Group**

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS -SEE BELOW
AF60585	WAP-27	4/10/23	1220	ZDM BWM	1	P	G	GW	2	Hg-7470	X
86	WAP-27D		1225							ALL OTHERS 6026.	
87	WAP-28		0958							PLEASE REFER TO SHEET FOR RLS.	
88	WAP-29		1104								
										* PLEASE RETURN CADER.	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	4/17/23	1300	<i>DM</i>	<i>JM</i>	4/10/23	1000

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad.226 <input type="checkbox"/> Rad.228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

**Table of Reporting Limits for Groundwater Samples-- Metals Only**

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-233704-2

**Login Number: 233704**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Daughtry, Beth A**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



August 11, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 629286

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 14, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 629286 GEL Work Order: 629286

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68757 Project: SOOP00119  
Sample ID: 629286001 Client ID: SOOP001  
Matrix: GW  
Collect Date: 11-JUL-23 09:51  
Receive Date: 14-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		3.22	+/-1.48	1.97	3.00	pCi/L			JE1	08/10/23	0842 2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		5.93	+/-1.65			pCi/L		1	NXL1	08/11/23	1032 2460567	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.72	+/-0.749	0.537	1.00	pCi/L			LXP1	08/11/23	0818 2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			66.9	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68749 Project: SOOP00119  
Sample ID: 629286002 Client ID: SOOP001  
Matrix: GW  
Collect Date: 11-JUL-23 10:52  
Receive Date: 14-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.544	+/-0.893	1.57	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.24	+/-1.00			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.697	+/-0.455	0.623	1.00	pCi/L			LXP1	08/11/23	0818	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.1	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration    SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68751 Project: SOOP00119  
Sample ID: 629286003 Client ID: SOOP001  
Matrix: GW  
Collect Date: 10-JUL-23 10:00  
Receive Date: 14-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.87	+/-1.41	2.04	3.00	pCi/L			JE1	08/10/23	0842 2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		4.17	+/-1.51			pCi/L		1	NXL1	08/11/23	1032 2460567	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.30	+/-0.536	0.479	1.00	pCi/L			LXP1	08/11/23	0849 2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.2	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68750 Project: SOOP00119  
Sample ID: 629286004 Client ID: SOOP001  
Matrix: GW  
Collect Date: 10-JUL-23 11:18  
Receive Date: 14-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.458	+/-1.13	2.03	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.43	+/-1.23			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.970	+/-0.485	0.536	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64.6	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68755	Project: SOOP00119
Sample ID: 629286005	Client ID: SOOP001
Matrix: GW	
Collect Date: 10-JUL-23 12:59	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.17	+/-1.06	1.72	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.19	+/-1.17			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.03	+/-0.485	0.517	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.5	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68733	Project: SOOP00119
Sample ID: 629286006	Client ID: SOOP001
Matrix: GW	
Collect Date: 10-JUL-23 14:10	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.80	+/-1.14	1.65	3.00	pCi/L			JE1	08/10/23	0842 2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.41	+/-1.31			pCi/L		1	NXL1	08/11/23	1032 2460567	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.61	+/-0.663	0.592	1.00	pCi/L			LXP1	08/11/23	0849 2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68	(15%-125%)

**Notes:**  
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68734	Project: SOOP00119
Sample ID: 629286007	Client ID: SOOP001
Matrix: GW	
Collect Date: 10-JUL-23 14:15	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.00	+/-1.01	1.66	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.38	+/-1.15			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.38	+/-0.544	0.546	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.5	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68740	Project: SOOP00119
Sample ID: 629286008	Client ID: SOOP001
Matrix: GW	
Collect Date: 12-JUL-23 11:01	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.589	+/-1.25	2.22	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.99	+/-1.40			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.40	+/-0.623	0.312	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68743 Project: SOOP00119  
Sample ID: 629286009 Client ID: SOOP001  
Matrix: GW  
Collect Date: 12-JUL-23 13:23  
Receive Date: 14-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.685	+/-1.18	2.05	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.51	+/-1.39			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.82	+/-0.733	0.542	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			72.2	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration    SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68744 Project: SOOP00119  
Sample ID: 629286010 Client ID: SOOP001  
Matrix: GW  
Collect Date: 12-JUL-23 13:28  
Receive Date: 14-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.0630	+/-0.807	1.56	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.35	+/-0.976			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.29	+/-0.549	0.548	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.1	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68738	Project: SOOP00119
Sample ID: 629286011	Client ID: SOOP001
Matrix: GW	
Collect Date: 12-JUL-23 12:28	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.925	+/-1.25	2.13	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.75	+/-1.34			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.823	+/-0.494	0.633	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.2	(15%-125%)

**Notes:**  
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68732	Project: SOOP00119
Sample ID: 629286012	Client ID: SOOP001
Matrix: GW	
Collect Date: 12-JUL-23 14:32	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.24	+/-1.50	2.54	3.00	pCi/L			JE1	08/10/23	1038	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.96	+/-1.68			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.72	+/-0.746	0.393	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.1	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68741	Project: SOOP00119
Sample ID: 629286013	Client ID: SOOP001
Matrix: GW	
Collect Date: 11-JUL-23 12:51	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.845	+/-0.937	1.56	3.00	pCi/L			JE1	08/10/23	0843	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.64	+/-1.02			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.794	+/-0.405	0.422	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.5	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |



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## Certificate of Analysis

Report Date: August 11, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68745	Project: SOOP00119
Sample ID: 629286014	Client ID: SOOP001
Matrix: GW	
Collect Date: 11-JUL-23 15:21	
Receive Date: 14-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.768	+/-0.851	1.42	3.00	pCi/L			JE1	08/10/23	0843	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.41	+/-0.959			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.638	+/-0.442	0.588	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.8	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

# GEL LABORATORIES LLC

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## QC Summary

Report Date: August 11, 2023

Page 1 of 2

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 629286

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2472078										
QC1205480715	629286001	DUP									
Radium-228		3.22		1.58	pCi/L	68.4		(0% - 100%)	JE1	08/10/23	08:43
	Uncertainty	+/-1.48		+/-1.02							
QC1205480716	LCS										
Radium-228	80.5			89.3	pCi/L		111	(75%-125%)		08/10/23	08:43
	Uncertainty			+/-5.27							
QC1205480714	MB										
Radium-228			U	0.162	pCi/L					08/10/23	08:43
	Uncertainty			+/-0.894							
<b>Rad Ra-226</b>											
Batch	2460555										
QC1205460757	629286001	DUP									
Radium-226		2.72		1.82	pCi/L	39.5*		(0%-20%)	LXP1	08/11/23	09:21
	Uncertainty	+/-0.749		+/-0.601							
QC1205460759	LCS										
Radium-226	26.3			28.2	pCi/L		107	(75%-125%)		08/11/23	09:21
	Uncertainty			+/-2.27							
QC1205460756	MB										
Radium-226			U	0.261	pCi/L					08/11/23	09:21
	Uncertainty			+/-0.295							
QC1205460758	629286001	MS									
Radium-226	131	2.72		126	pCi/L		93.9	(75%-125%)		08/11/23	09:21
	Uncertainty	+/-0.749		+/-10.6							

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported

# GEL LABORATORIES LLC

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## QC Summary

Workorder: 629286

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 629286**

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified

**Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2472078

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
629286001	AF68757
629286002	AF68749
629286003	AF68751
629286004	AF68750
629286005	AF68755
629286006	AF68733
629286007	AF68734
629286008	AF68740
629286009	AF68743
629286010	AF68744
629286011	AF68738
629286012	AF68732
629286013	AF68741
629286014	AF68745
1205480714	Method Blank (MB)
1205480715	629286001(AF68757) Sample Duplicate (DUP)
1205480716	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Preparation Information**

**Homogenous Matrix**

Samples 629286004 (AF68750), 629286006 (AF68733), 629286007 (AF68734), 629286011 (AF68738) and 629286012 (AF68732) were non-homogenous matrix. sample 12 is brown the others are a light yellow 629286004 (AF68750), 629286006 (AF68733), 629286007 (AF68734), 629286011 (AF68738) and 629286012 (AF68732).

**Technical Information**

**Sample Re-prep/Re-analysis**

Samples were re-prepped due to high blank activity. The re-analysis is being reported.

**Recounts**

Samples were re-eluted and recounted to verify sample results. The recounts are reported.

**Product: Lucas Cell, Ra226, Liquid**

**Analytical Method:** EPA 903.1 Modified

**Analytical Procedure:** GL-RAD-A-008 REV# 15

**Analytical Batch:** 2460555

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
629286001	AF68757
629286002	AF68749
629286003	AF68751
629286004	AF68750
629286005	AF68755
629286006	AF68733
629286007	AF68734
629286008	AF68740
629286009	AF68743
629286010	AF68744
629286011	AF68738
629286012	AF68732
629286013	AF68741
629286014	AF68745
1205460756	Method Blank (MB)
1205460757	629286001(AF68757) Sample Duplicate (DUP)
1205460758	629286001(AF68757) Matrix Spike (MS)
1205460759	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Duplication Criteria between QC Sample and Duplicate Sample**

The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

<b>Sample</b>	<b>Analyte</b>	<b>Value</b>
1205460757 (AF68757DUP)	Radium-226	RPD 39.5* (0.00%-20.00%) RER 1.5 (0-3)

**Miscellaneous Information**

**Additional Comments**

The matrix spike, 1205460758 (AF68757MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

# Chain of Custody

629286



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.08.G01.1 / 36500 Rerun request for any flagged QC:  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226	RAD 228	TOTAL RAD CALC
AF68757	WLF-A2-2	7/11/23	0951	WJK ML	2	P	G	GW	2	• Method # • Reporting limit • Misc. sample info • Any other notes	1	1	X
AF68749	WBW-A1-1	↓	1052	↓	↓	↓	↓	↓	↓				
AF68751	WLF-A1-2	7/10/23	1000	↓	↓	↓	↓	↓	↓				
AF68750	WLF-A1-1	↓	1118	↓	↓	↓	↓	↓	↓				
AF68755	WLF-A1-5	↓	1259	↓	↓	↓	↓	↓	↓				
AF68733	WAP-17	↓	1410	↓	↓	↓	↓	↓	↓				
AF68734	WAP-17 DUP	↓	1415	↓	↓	↓	↓	↓	↓				

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	7/14/23	0859	<i>[Signature]</i>	GEL	7/14/23	0859
<i>[Signature]</i>	GEL	7/14/23	1455	<i>[Signature]</i>	GEL	7/14/23	1455

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	--

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)



# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09. G01.1 / 36500 Rerun request for any flagged QC:  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC.
AF68740	WAP-23	7/12/23	1101	WJK ML	2	P	G	GW	2		1	1	X
AF68743	WAP-26		1323										
AF68744	WAP-26 DUP		1328										
AF68738	WAP-21		1228										
AF68732	WAP-16		1432										
AF68741	WAP-24	7/11/23	1251										
AF68745	WAP-27		1521										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	7/14/23	0859	<i>[Signature]</i>	GEL	7/14/23	0859
<i>[Signature]</i>	GEL	7.14.23	1455	<i>[Signature]</i>	GEL	7/14/23	1925

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	--	--	---	--	---

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)



**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>SOOP</u>	SDG/AR/COC/Work Order: <u>629286</u>
Received By: <u>QG</u>	Date Received: <u>7/14/23</u>
Carrier and Tracking Number	Circle Applicable: FedEx Express   FedEx Ground   UPS   Field Services <u>Courier</u> Other

Suspected Hazard Information	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>50</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	If D or E is yes, select Hazards below. PCB's   Flammable   Foreign Soil   RCRA   Asbestos   Beryllium   Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC   COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs   Dry ice   None   Other: *all temperatures are recorded in Celsius TEMP: <u>3 °C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR4-23</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers   No times on containers   COC missing info   Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC   Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished   Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials CO Date 7/17/23 Page \_\_\_ of \_\_\_

**List of current GEL Certifications as of 11 August 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 9/13/2023 6:37:26 PM Revision 1

## JOB DESCRIPTION

125915/JM02.09.G01.1/36500

## JOB NUMBER

680-239668-1

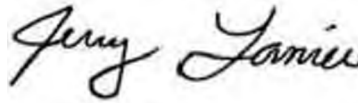
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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9/13/2023 6:37:26 PM  
Revision 1

Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

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**Job ID: 680-239668-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative  
680-239668-1**

REVISION

The report being provided is a revision of the original report sent on 9/1/2023. The report (revision 1) is being revised due to Client needs mercury re-run due to failing CCV..

**Receipt**

The samples were received on 8/30/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.7°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
680-239668-1	AF75783	Water	08/28/23 13:49	08/30/23 09:10
680-239668-2	AF75784	Water	08/28/23 11:09	08/30/23 09:10
680-239668-3	AF75785	Water	08/28/23 11:14	08/30/23 09:10
680-239668-4	AF75786	Water	08/28/23 12:35	08/30/23 09:10

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

**Client Sample ID: AF75783**

**Lab Sample ID: 680-239668-1**

No Detections.

**Client Sample ID: AF75784**

**Lab Sample ID: 680-239668-2**

No Detections.

**Client Sample ID: AF75785**

**Lab Sample ID: 680-239668-3**

No Detections.

**Client Sample ID: AF75786**

**Lab Sample ID: 680-239668-4**

No Detections.

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This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

**Client Sample ID: AF75783**

**Lab Sample ID: 680-239668-1**

Date Collected: 08/28/23 13:49

Matrix: Water

Date Received: 08/30/23 09:10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		09/11/23 12:16	09/12/23 12:41	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

**Client Sample ID: AF75784**

**Lab Sample ID: 680-239668-2**

Date Collected: 08/28/23 11:09

Matrix: Water

Date Received: 08/30/23 09:10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		09/11/23 12:16	09/12/23 12:43	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

**Client Sample ID: AF75785**

**Lab Sample ID: 680-239668-3**

Date Collected: 08/28/23 11:14

Matrix: Water

Date Received: 08/30/23 09:10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		09/11/23 12:16	09/12/23 12:44	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

**Client Sample ID: AF75786**

**Lab Sample ID: 680-239668-4**

Date Collected: 08/28/23 12:35

Matrix: Water

Date Received: 08/30/23 09:10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		09/11/23 12:16	09/12/23 12:46	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-797380/1-A**  
**Matrix: Water**  
**Analysis Batch: 797609**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 797380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		09/11/23 11:54	09/12/23 12:08	1

**Lab Sample ID: LCS 680-797380/2-A**  
**Matrix: Water**  
**Analysis Batch: 797609**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 797380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.650		ug/L		106	80 - 120



# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

## Metals

### Prep Batch: 797380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239668-1	AF75783	Total/NA	Water	7470A	
680-239668-2	AF75784	Total/NA	Water	7470A	
680-239668-3	AF75785	Total/NA	Water	7470A	
680-239668-4	AF75786	Total/NA	Water	7470A	
MB 680-797380/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-797380/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 797609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239668-1	AF75783	Total/NA	Water	7470A	797380
680-239668-2	AF75784	Total/NA	Water	7470A	797380
680-239668-3	AF75785	Total/NA	Water	7470A	797380
680-239668-4	AF75786	Total/NA	Water	7470A	797380
MB 680-797380/1-A	Method Blank	Total/NA	Water	7470A	797380
LCS 680-797380/2-A	Lab Control Sample	Total/NA	Water	7470A	797380



# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

**Client Sample ID: AF75783**

**Lab Sample ID: 680-239668-1**

Date Collected: 08/28/23 13:49

Matrix: Water

Date Received: 08/30/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:41

**Client Sample ID: AF75784**

**Lab Sample ID: 680-239668-2**

Date Collected: 08/28/23 11:09

Matrix: Water

Date Received: 08/30/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:43

**Client Sample ID: AF75785**

**Lab Sample ID: 680-239668-3**

Date Collected: 08/28/23 11:14

Matrix: Water

Date Received: 08/30/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:44

**Client Sample ID: AF75786**

**Lab Sample ID: 680-239668-4**

Date Collected: 08/28/23 12:35

Matrix: Water

Date Received: 08/30/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:46

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Chain of Custody



Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125715 / JM02.09.GB1.1 / 36500 Rerun request for any flagged QC: Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg
AF 75783	WAP-27	8/28/23	1349	EDM BSB	1	P	G	GW	2	7471 RL ≤ 0.2 or 2 µg/L	X
84	WAP-28		1109								
85	WAP-28D		1114								
86	WAP-29		1235								



Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	8/29/23	1300				

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input checked="" type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO3 <input type="checkbox"/> NO2 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Soluble Metals <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input checked="" type="checkbox"/> AS <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> LOI <input type="checkbox"/> % Mineral <input type="checkbox"/> Sieve <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> COFER
---	---	--	--	---	--	--

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code: 1=4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

# USDA Gyp RLs

	Units	Screening Value	
Ag	mg kg		
Al	g kg		
As	mg kg	13.1	6010
B	mg kg	200	
Ba	mg kg	1000	
Be	mg kg	? 2.5	6020
Ca	g kg		6010
Cd	mg kg	1	6010
Co	mg kg	20	
Cr(III)	mg kg	100	6010
Cu	mg kg	95	
Fe	g kg		
Hg	mg kg	2.5	
Mg	g kg		6010
Mn	mg kg	1500	
Mo	mg kg	10	6010
Ni	mg kg	100	6010
Pb	mg kg	30	
<del>S</del>	<del>g kg</del>	<del>220</del>	<del>CFR</del>
Sb	mg kg	1.5	6020
Se	mg kg	50	6010
Sn	mg kg		
Tl	mg kg	1	6020
V	mg kg	136	
Zn	mg kg	125	
<del>Rad 226</del>	<del>pCi/g</del>	<del>10</del>	

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Continue analysis monthly  
Analyze quarterly

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# Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-239668-1

**Login Number: 239668**

**List Number: 1**

**Creator: Johnson, Corey M**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
South Carolina	State	98001	06-30-23 *

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\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 8/16/2023 12:48:34 PM Revision 1

## JOB DESCRIPTION

125915/JM02.09.G01.1/36500

## JOB NUMBER

680-238537-1

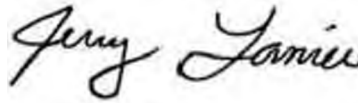
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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8/16/2023 12:48:34 PM  
Revision 1

Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

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**Job ID: 680-238537-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative  
680-238537-1**

REVISION

The report being provided is a revision of the original report sent on 8/9/2023. The report (revision 1) is being revised due to Client is requesting add'l metals to be reported under method 6020A (Al, Cu, Fe, Mg, Ni & Zn).

**Receipt**

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
680-238537-1	AF68739	Water	07/05/23 10:44	08/02/23 10:45
680-238537-2	Af68748	Water	06/27/23 10:15	08/02/23 10:45
680-238537-3	Af68711	Water	06/27/23 11:26	08/02/23 10:45
680-238537-4	Af68717	Water	06/27/23 13:57	08/02/23 10:45

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Client Sample ID: AF68739

## Lab Sample ID: 680-238537-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	227000		500		ug/L	1		6010D	Total Recoverable
Arsenic	8.46		3.00		ug/L	1		6020B	Total Recoverable
Barium	97.2		5.00		ug/L	1		6020B	Total Recoverable
Iron	17200		100		ug/L	1		6020B	Total Recoverable
Magnesium	8080		250		ug/L	1		6020B	Total Recoverable

## Client Sample ID: Af68748

## Lab Sample ID: 680-238537-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	3260		500		ug/L	1		6010D	Total Recoverable
Aluminum	938		100		ug/L	1		6020B	Total Recoverable
Barium	53.4		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.00		0.500		ug/L	1		6020B	Total Recoverable
Magnesium	1280		250		ug/L	1		6020B	Total Recoverable

## Client Sample ID: Af68711

## Lab Sample ID: 680-238537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	8490		500		ug/L	1		6010D	Total Recoverable
Aluminum	1140		100		ug/L	1		6020B	Total Recoverable
Arsenic	8.50		3.00		ug/L	1		6020B	Total Recoverable
Barium	77.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.595		0.500		ug/L	1		6020B	Total Recoverable
Iron	2200		100		ug/L	1		6020B	Total Recoverable
Magnesium	733		250		ug/L	1		6020B	Total Recoverable

## Client Sample ID: Af68717

## Lab Sample ID: 680-238537-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	605000		500		ug/L	1		6010D	Total Recoverable
Barium	42.8		5.00		ug/L	1		6020B	Total Recoverable
Iron	169		100		ug/L	1		6020B	Total Recoverable
Magnesium	13800		250		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

**Client Sample ID: AF68739**

**Lab Sample ID: 680-238537-1**

Date Collected: 07/05/23 10:44

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	227000		500		ug/L		08/03/23 06:38	08/04/23 17:08	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:08	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:01	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
<b>Arsenic</b>	<b>8.46</b>		3.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
<b>Barium</b>	<b>97.2</b>		5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:01	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:01	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:01	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
<b>Iron</b>	<b>17200</b>		100		ug/L		08/03/23 06:38	08/08/23 15:01	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:01	1
<b>Magnesium</b>	<b>8080</b>		250		ug/L		08/03/23 06:38	08/08/23 15:01	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:01	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

**Client Sample ID: Af68748**

**Lab Sample ID: 680-238537-2**

Date Collected: 06/27/23 10:15

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3260		500		ug/L		08/03/23 05:51	08/03/23 15:18	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:18	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>938</b>		100		ug/L		08/03/23 05:51	08/07/23 16:42	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
<b>Barium</b>	<b>53.4</b>		5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:42	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:42	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
<b>Cobalt</b>	<b>2.00</b>		0.500		ug/L		08/03/23 05:51	08/07/23 16:42	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:42	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:42	1
<b>Magnesium</b>	<b>1280</b>		250		ug/L		08/03/23 05:51	08/07/23 16:42	1
Nickel	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:42	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

**Client Sample ID: Af68711**

**Lab Sample ID: 680-238537-3**

Date Collected: 06/27/23 11:26

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8490		500		ug/L		08/03/23 06:38	08/04/23 17:10	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:10	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1140		100		ug/L		08/03/23 06:38	08/08/23 15:05	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Arsenic	8.50		3.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Barium	77.1		5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:05	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:05	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Cobalt	0.595		0.500		ug/L		08/03/23 06:38	08/08/23 15:05	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Iron	2200		100		ug/L		08/03/23 06:38	08/08/23 15:05	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:05	1
Magnesium	733		250		ug/L		08/03/23 06:38	08/08/23 15:05	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:05	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

**Client Sample ID: Af68717**

**Lab Sample ID: 680-238537-4**

Date Collected: 06/27/23 13:57

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	605000		500		ug/L		08/03/23 06:38	08/04/23 17:13	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:13	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:09	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
<b>Barium</b>	<b>42.8</b>		5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:09	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:09	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:09	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
<b>Iron</b>	<b>169</b>		100		ug/L		08/03/23 06:38	08/08/23 15:09	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:09	1
<b>Magnesium</b>	<b>13800</b>		250		ug/L		08/03/23 06:38	08/08/23 15:09	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:09	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 680-791516/1-A**  
**Matrix: Water**  
**Analysis Batch: 791719**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791516**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 05:51	08/03/23 14:52	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 14:52	1

**Lab Sample ID: LCS 680-791516/2-A**  
**Matrix: Water**  
**Analysis Batch: 791719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791516**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	94.39		ug/L		94	80 - 120

**Lab Sample ID: MB 680-791519/1-A**  
**Matrix: Water**  
**Analysis Batch: 791897**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791519**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

**Lab Sample ID: LCS 680-791519/2-A**  
**Matrix: Water**  
**Analysis Batch: 791897**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791519**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	99.73		ug/L		100	80 - 120

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-791513/1-A**  
**Matrix: Water**  
**Analysis Batch: 792230**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791513**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Barium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 15:57	1
Magnesium	250	U	250		ug/L		08/03/23 05:51	08/07/23 15:57	1
Nickel	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 15:57	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-791513/2-A**  
**Matrix: Water**  
**Analysis Batch: 792230**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791513**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	5050	5120		ug/L		101	80 - 120
Antimony	50.0	50.97		ug/L		102	80 - 120
Arsenic	100	106.4		ug/L		106	80 - 120
Barium	100	102.9		ug/L		103	80 - 120
Beryllium	50.0	49.97		ug/L		100	80 - 120
Cadmium	50.0	50.92		ug/L		102	80 - 120
Chromium	100	109.3		ug/L		109	80 - 120
Cobalt	50.0	55.15		ug/L		110	80 - 120
Copper	100	113.2		ug/L		113	80 - 120
Iron	4990	5167		ug/L		104	80 - 120
Lead	500	530.5		ug/L		106	80 - 120
Magnesium	5000	4977		ug/L		100	80 - 120
Nickel	100	110.4		ug/L		110	80 - 120
Thallium	50.0	50.20		ug/L		100	80 - 120
Zinc	100	110.4		ug/L		110	80 - 120

**Lab Sample ID: MB 680-791518/1-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Magnesium	250	U	250		ug/L		08/03/23 06:38	08/08/23 14:41	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1

**Lab Sample ID: LCS 680-791518/2-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	5050	4652		ug/L		92	80 - 120
Antimony	50.0	46.52		ug/L		93	80 - 120
Arsenic	100	97.80		ug/L		98	80 - 120
Barium	100	95.86		ug/L		96	80 - 120
Beryllium	50.0	48.56		ug/L		97	80 - 120
Cadmium	50.0	46.20		ug/L		92	80 - 120
Chromium	100	100.4		ug/L		100	80 - 120

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# QC Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791518/2-A  
Matrix: Water  
Analysis Batch: 792490

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 791518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cobalt	50.0	47.54		ug/L		95	80 - 120
Copper	100	102.8		ug/L		103	80 - 120
Iron	4990	5052		ug/L		101	80 - 120
Lead	500	485.1		ug/L		97	80 - 120
Magnesium	5000	4591		ug/L		92	80 - 120
Nickel	100	98.89		ug/L		99	80 - 120
Thallium	50.0	46.82		ug/L		94	80 - 120
Zinc	100	101.9		ug/L		102	80 - 120

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Metals

### Prep Batch: 791513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-2	Af68748	Total Recoverable	Water	3005A	
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-2	Af68748	Total Recoverable	Water	3005A	
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-1	AF68739	Total Recoverable	Water	3005A	
680-238537-3	Af68711	Total Recoverable	Water	3005A	
680-238537-4	Af68717	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-1	AF68739	Total Recoverable	Water	3005A	
680-238537-3	Af68711	Total Recoverable	Water	3005A	
680-238537-4	Af68717	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 791719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-2	Af68748	Total Recoverable	Water	6010D	791516
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	6010D	791516
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791516

### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-1	AF68739	Total Recoverable	Water	6010D	791519
680-238537-3	Af68711	Total Recoverable	Water	6010D	791519
680-238537-4	Af68717	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

### Analysis Batch: 792230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-2	Af68748	Total Recoverable	Water	6020B	791513
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	6020B	791513
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791513

### Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-1	AF68739	Total Recoverable	Water	6020B	791518
680-238537-3	Af68711	Total Recoverable	Water	6020B	791518
680-238537-4	Af68717	Total Recoverable	Water	6020B	791518

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# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Metals (Continued)

### Analysis Batch: 792490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

**Client Sample ID: AF68739**

**Lab Sample ID: 680-238537-1**

**Date Collected: 07/05/23 10:44**

**Matrix: Water**

**Date Received: 08/02/23 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:08
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:01

**Client Sample ID: Af68748**

**Lab Sample ID: 680-238537-2**

**Date Collected: 06/27/23 10:15**

**Matrix: Water**

**Date Received: 08/02/23 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:18
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:42

**Client Sample ID: Af68711**

**Lab Sample ID: 680-238537-3**

**Date Collected: 06/27/23 11:26**

**Matrix: Water**

**Date Received: 08/02/23 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:10
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:05

**Client Sample ID: Af68717**

**Lab Sample ID: 680-238537-4**

**Date Collected: 06/27/23 13:57**

**Matrix: Water**


**Date Received: 08/02/23 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:13
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:09

**Laboratory References:**

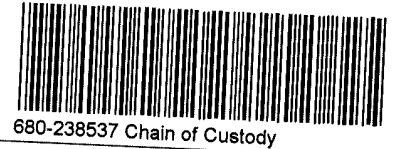
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Chain of Custody

  
 Santee Cooper  
 One Riverwood Drive  
 Moncks Corner, SC 29461  
 Phone (843)761 8000 Ext. 5148  
 Fax: (843)761-4174

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125915 / JMD2.09. G01.1 / 36500  
 Rerun request for any flagged QC  Yes  No

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Analysis Group		
											TOTAL METALS -SEE BELOW		
AF68739	WAP-22	7/5/23	1044	WJK ML	1	P	G	GW	2	6620	X		
AF68748	WBW-1	6/21/23	1015							- SEE SHEET FOR RLS			
AF68711	WAP-1		1126										
AF68717	WAP-7		1357							PLEASE RETURN SAMPLES UPON COMPLETION.			



Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	8/2/23	0756	<i>E.Hodge</i>	COURIER	8/2/23	0756
<i>E.Hodge</i>	<i>courier</i>	8/2/23	1044	<i>TA</i>	TA	8-2-23	1045

Sample Receiving (Internal Use Only)  
 TEMP (°C): 22/23 Initial:       
 Correct pH: Yes  No   
 Preservative Lot#:       
 Date/Time/Init for preservative:     

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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**Table of Reporting Limits for Groundwater  
Samples-- Metals Only**

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

# Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-238537-1

**Login Number: 238537**

**List Number: 1**

**Creator: Sims, Robert D**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
South Carolina	State	98001	06-30-23 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



August 17, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 630054

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 21, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 630054 GEL Work Order: 630054

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68725 Project: SOOP00119  
Sample ID: 630054001 Client ID: SOOP001  
Matrix: GW  
Collect Date: 18-JUL-23 11:49  
Receive Date: 21-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.69	+/-1.08	1.60	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.46	+/-1.25			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.76	+/-0.637	0.695	1.00	pCi/L		LXP1	08/17/23	0843	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.5	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68742	Project: SOOP00119
Sample ID: 630054002	Client ID: SOOP001
Matrix: GW	
Collect Date: 18-JUL-23 14:53	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-0.146	+/-0.647	1.34	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.686	+/-0.748			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.686	+/-0.376	0.411	1.00	pCi/L		LXP1	08/17/23	0843	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.9	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68747	Project: SOOP00119
Sample ID: 630054003	Client ID: SOOP001
Matrix: GW	
Collect Date: 17-JUL-23 10:08	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.780	+/-1.07	1.83	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		0.830	+/-1.12			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.0502	+/-0.326	0.672	1.00	pCi/L		LXP1	08/17/23	0843	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.6	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68731	Project: SOOP00119
Sample ID: 630054004	Client ID: SOOP001
Matrix: GW	
Collect Date: 17-JUL-23 11:15	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	1.43	+/-0.956	1.46	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.62	+/-1.18			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.19	+/-0.690	0.625	1.00	pCi/L		LXP1	08/17/23	0915	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			90.9	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68723      Project: SOOP00119  
Sample ID: 630054005      Client ID: SOOP001  
Matrix: GW  
Collect Date: 17-JUL-23 13:00  
Receive Date: 21-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.31	+/-0.984	1.25	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		2.99	+/-1.09			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.688	+/-0.472	0.659	1.00	pCi/L		LXP1	08/17/23	0915	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68724 Project: SOOP00119  
Sample ID: 630054006 Client ID: SOOP001  
Matrix: GW  
Collect Date: 17-JUL-23 13:05  
Receive Date: 21-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.607	+/-0.706	1.18	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.46	+/-0.825			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.856	+/-0.428	0.473	1.00	pCi/L		LXP1	08/17/23	0915	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			91.2	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68746 Project: SOOP00119  
Sample ID: 630054007 Client ID: SOOP001  
Matrix: GW  
Collect Date: 17-JUL-23 14:24  
Receive Date: 21-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.92	+/-0.974	1.34	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		6.65	+/-1.45			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		4.73	+/-1.07	0.573	1.00	pCi/L		LXP1	08/17/23	0916	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			85.2	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68726	Project: SOOP00119
Sample ID: 630054008	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-JUL-23 14:16	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.84	+/-1.23	1.93	3.00	pCi/L		JE1	08/09/23	1338	2464193		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.85	+/-1.31			pCi/L		NXL1	08/17/23	1207	2464198		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.01	+/-0.469	0.559	1.00	pCi/L		LXP1	08/17/23	0916	2464194		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			93.9	(15%-125%)

**Notes:**  
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68727	Project: SOOP00119
Sample ID: 630054009	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-JUL-23 14:21	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.25	+/-0.862	1.32	3.00	pCi/L		JE1	08/09/23	1337	2464193		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.17	+/-0.944			pCi/L		NXL1	08/17/23	1207	2464198		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.927	+/-0.386	0.295	1.00	pCi/L		LXP1	08/17/23	0916	2464194		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			91.6	(15%-125%)

**Notes:**  
 Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68730	Project: SOOP00119
Sample ID: 630054010	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-JUL-23 10:01	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.272	+/-0.745	1.38	3.00	pCi/L		JE1	08/09/23	1337	2464193		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.75	+/-1.03			pCi/L		NXL1	08/17/23	1207	2464198		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.47	+/-0.719	0.614	1.00	pCi/L		LXP1	08/17/23	0916	2464194		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			82	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68729 Project: SOOP00119  
Sample ID: 630054011 Client ID: SOOP001  
Matrix: GW  
Collect Date: 13-JUL-23 11:24  
Receive Date: 21-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.66	+/-1.11	1.42	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		8.89	+/-1.58			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		6.23	+/-1.12	0.394	1.00	pCi/L		LXP1	08/17/23	0916	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.5	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 17, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68728	Project: SOOP00119
Sample ID: 630054012	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-JUL-23 13:32	
Receive Date: 21-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.03	+/-1.14	1.70	3.00	pCi/L		JE1	08/09/23	1337	2464193	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.68	+/-1.28			pCi/L		NXL1	08/17/23	1207	2464198	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.65	+/-0.572	0.492	1.00	pCi/L		LXP1	08/17/23	0947	2464194	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: August 17, 2023

Page 1 of 2

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 630054

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2464193										
QC1205466431	630054001	DUP									
Radium-228		1.69		1.53	pCi/L	10.2		(0% - 100%)	JE1	08/09/23	13:36
	Uncertainty	+/-1.08		+/-0.862							
QC1205466432	LCS										
Radium-228		79.4		73.7	pCi/L		92.8	(75%-125%)		08/09/23	13:36
	Uncertainty			+/-4.40							
QC1205466430	MB										
Radium-228			U	0.374	pCi/L					08/09/23	13:36
	Uncertainty			+/-1.10							
<b>Rad Ra-226</b>											
Batch	2464194										
QC1205466427	630054001	DUP									
Radium-226		1.76		1.93	pCi/L	9.03		(0% - 100%)	LXP1	08/17/23	09:47
	Uncertainty	+/-0.637		+/-0.646							
QC1205466429	LCS										
Radium-226		25.6		20.0	pCi/L		78.3	(75%-125%)		08/17/23	09:47
	Uncertainty			+/-1.70							
QC1205466426	MB										
Radium-226			U	0.222	pCi/L					08/17/23	09:47
	Uncertainty			+/-0.288							
QC1205466428	630054001	MS									
Radium-226		131		121	pCi/L		91.2	(75%-125%)		08/17/23	09:47
	Uncertainty	+/-0.637		+/-9.22							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

# GEL LABORATORIES LLC

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## QC Summary

Workorder: 630054

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 630054**

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified

**Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2464193

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
630054001	AF68725
630054002	AF68742
630054003	AF68747
630054004	AF68731
630054005	AF68723
630054006	AF68724
630054007	AF68746
630054008	AF68726
630054009	AF68727
630054010	AF68730
630054011	AF68729
630054012	AF68728
1205466430	Method Blank (MB)
1205466431	630054001(AF68725) Sample Duplicate (DUP)
1205466432	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product:** Lucas Cell, Ra226, Liquid

**Analytical Method:** EPA 903.1 Modified

**Analytical Procedure:** GL-RAD-A-008 REV# 15

**Analytical Batch:** 2464194

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
630054001	AF68725
630054002	AF68742
630054003	AF68747
630054004	AF68731

630054005	AF68723
630054006	AF68724
630054007	AF68746
630054008	AF68726
630054009	AF68727
630054010	AF68730
630054011	AF68729
630054012	AF68728
1205466426	Method Blank (MB)
1205466427	630054001(AF68725) Sample Duplicate (DUP)
1205466428	630054001(AF68725) Matrix Spike (MS)
1205466429	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Miscellaneous Information**

**Additional Comments**

The matrix spike, 1205466428 (AF68725MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



# Chain of Custody

030064

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09.601.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC
AF68742	WAP-25	↓	1453										
AF68747	WAP-29	7/17/23	1008										
31	WAP-15		1115										
23	WAP-12		1300										
24	WAP-12 DUP		1305										
46	WAP-28		1424										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	7/21/23	0945	<i>[Signature]</i>	GEL	7/21/23	0945
<i>[Signature]</i>	GEL	7/21/23	1555	<i>[Signature]</i>	GEL	7/21/23	1555

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum (all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	---	---	--	--



# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC:  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALS
AF68726	WAP-14	7/13/23	1416	WJK ML	2	P	G	GW	2				X
AF68727	WAP-14 DUP		1421										
AF68730	WAP-14C		1001										
AF68729	WAP-14B		1124										
AF68728	WAP-14A		1332										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	7/21/23	0945	<i>[Signature]</i>	GEL	7/21/23	0945
<i>[Signature]</i>	<i>GEL</i>	7/21/23	1555	<i>[Signature]</i>	GEL	7/21/23	1555

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	--

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, Coal-Gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservation codes: 1=HCl 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6-Other (Specify)

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>SOOP</u>		SDG/AR/COC/Work Order: <u>630054</u>			
Received By: <u>EG</u>		Date Received: <u>7/21/23 1555</u>			
Carrier and Tracking Number		Circle Applicable: <input type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Other			
		Suspected Hazard Information <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM / mR/Hr Classified as: <b>Rad 1</b> <b>Rad 2</b> <b>Rad 3</b>			
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. <input type="checkbox"/> PCB's <input type="checkbox"/> Flammable <input type="checkbox"/> Foreign Soil <input type="checkbox"/> RCRA <input type="checkbox"/> Asbestos <input type="checkbox"/> Beryllium <input type="checkbox"/> Other:			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC   COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry ice <input type="checkbox"/> None <input type="checkbox"/> Other: *all temperatures are recorded in Celsius <b>TEMP: <u>6</u></b>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR5-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: <u>WAP-14 DGP, WAP-15, WAP-14 PH 72</u> If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers   No times on containers   COC missing info   Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC   Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished   Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials CO   Date 7/24/23   Page 1 of 1



**List of current GEL Certifications as of 17 August 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 08, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 635742

Dear Ms. Gilmetti:

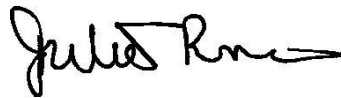
GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 01, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,



Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 635742 GEL Work Order: 635742

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- H Analytical holding time was exceeded
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 8, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF75783  
Sample ID: 635742001  
Matrix: GW  
Collect Date: 23-AUG-23 13:49  
Receive Date: 01-SEP-23  
Collector: Client  
Project: SOOP00119  
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		212	3.35	10.0	mg/L		50	JLD1	09/03/23	1326	2486861	1
Sulfate		57.6	6.65	20.0	mg/L		50	JLD1	09/02/23	1419	2486861	2
Fluoride	J	0.0685	0.0330	0.100	mg/L		1	JLD1	09/02/23	1419	2486861	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 8, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF75784  
Sample ID: 635742002  
Matrix: GW  
Collect Date: 23-AUG-23 11:09  
Receive Date: 01-SEP-23  
Collector: Client

Project: SOOP00119  
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		354	6.70	20.0	mg/L		100	JLD1	09/03/23	1358	2486861	1
Sulfate		99.8	13.3	40.0	mg/L		100					
Fluoride		0.233	0.0330	0.100	mg/L		1	JLD1	09/02/23	1451	2486861	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 8, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF75785  
Sample ID: 635742003  
Matrix: GW  
Collect Date: 23-AUG-23 11:14  
Receive Date: 01-SEP-23  
Collector: Client

Project: SOOP00119  
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.237	0.0330	0.100	mg/L		1	JLD1	09/02/23	1523	2486861	1
Chloride		325	6.70	20.0	mg/L		100	JLD1	09/03/23	1430	2486861	2
Sulfate		96.0	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 8, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF75786      Project: SOOP00119  
 Sample ID: 635742004      Client ID: SOOP001  
 Matrix: GW  
 Collect Date: 23-AUG-23 12:35  
 Receive Date: 01-SEP-23  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		862	13.4	40.0	mg/L		200	JLD1	09/03/23	1502	2486861	1
Sulfate		650	26.6	80.0	mg/L		200					
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/02/23	1554	2486861	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
 DL: Detection Limit      PF: Prep Factor  
 MDA: Minimum Detectable Activity      RL: Reporting Limit  
 MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: September 8, 2023

Page 1 of 2

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact:  
Workorder: 635742

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Ion Chromatography</b>											
Batch	2486861										
QC1205506681	635758008	DUP									
Chloride	H	8.12	H	8.10	mg/L	0.269		(0%-20%)	JLD1	09/03/23	02:32
Fluoride	H	0.123	H	0.126	mg/L	2.81	^	(+/-0.100)			
Sulfate	H	22.7	H	22.6	mg/L	0.432		(0%-20%)		09/03/23	16:06
QC1205506678	LCS										
Chloride	5.00			4.70	mg/L		94.1	(90%-110%)		09/03/23	00:56
Fluoride	2.50			2.41	mg/L		96.4	(90%-110%)			
Sulfate	10.0			9.54	mg/L		95.4	(90%-110%)			
QC1205506677	MB										
Chloride			U	ND	mg/L					09/03/23	00:24
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205506682	635758008	PS									
Chloride	5.00	H	8.12	H	13.4	mg/L		105	(90%-110%)	09/03/23	03:04
Fluoride	2.50	H	0.123	H	2.43	mg/L		92.2	(90%-110%)		
Sulfate	10.0	H	11.3	H	21.1	mg/L		97.4	(90%-110%)	09/03/23	16:38

Notes:



# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 635742

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- NI See case narrative
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry  
 Technical Case Narrative  
 Santee Cooper  
 SDG #: 635742**

**Product:** Ion Chromatography  
**Analytical Method:** EPA 300.0  
**Analytical Procedure:** GL-GC-E-086 REV# 33  
**Analytical Batch:** 2486861

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635742001	AF75783
635742002	AF75784
635742003	AF75785
635742004	AF75786
1205506677	Method Blank (MB)
1205506678	Laboratory Control Sample (LCS)
1205506681	635758008(AF71297) Sample Duplicate (DUP)
1205506682	635758008(AF71297) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Holding Times**

Samples (See Below) were received by the laboratory outside of the method specified holding time. The data is qualified.

Sample	Analyte	Value
1205506681 (AF71297DUP)		Received 01-SEP-23, out of holding 30-AUG-23
1205506682 (AF71297PS)		Received 01-SEP-23, out of holding 30-AUG-23

**Sample Dilutions**

The following samples 1205506681 (AF71297DUP), 1205506682 (AF71297PS), 635742001 (AF75783), 635742002 (AF75784), 635742003 (AF75785) and 635742004 (AF75786) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	635742			
	001	002	003	004
Chloride	50X	100X	100X	200X

Sulfate	50X	100X	100X	200X
---------	-----	------	------	------

**Miscellaneous Information**

**Manual Integrations**

Sample 635742004 (AF75786) was manually integrated to correctly position the baseline as set in the calibration standards.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



# Chain of Custody

03 5742

Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC: Yes  No

**Analysis Group**

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	F, CI, SO4
AF75783	WAP-27	8/23/23	1349	ZDM BB	1	P	G	GW	1		X
84	WAP-28		1109								X
85	WAP-28 D		1114								X
86	WAP-29		1235								X

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	36851	9/1/23	947	<i>[Signature]</i>	GEL	9/1/23	0947
<i>[Signature]</i>	GEL	9/1/23	1610	<i>[Signature]</i>	COLL	9/1/23	1610

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Parity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	---	--

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DEP</u>		SDG/AR/COC/Work Order: <u>635742</u>	
Received By: <u>MVH</u>		Date Received: <u>09-01-2023</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express    FedEx Ground    UPS    Field Services    Courier    Other	
<b>Suspected Hazard Information</b>		Yes	No
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: <b>Rad 1 Rad 2 Rad 3</b>
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's    Flammable    Foreign Soil    RCRA    Asbestos    Beryllium    Other: _____
<b>Sample Receipt Criteria</b>		Yes	NA
		No	<b>Comments/Qualifiers (Required for Non-Conforming Items)</b>
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC    COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice    Ice Packs    Dry ice    None    Other: _____ *all temperatures are recorded in Celsius    TEMP: <u>4</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: <u>W49-5 COC</u> If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
			Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
			Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers    No times on containers    COC missing info    Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC    Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished    Other (describe)
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials glw Date 9/5/23 Page 1 of 1

**List of current GEL Certifications as of 08 September 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 8/9/2023 8:43:07 AM

## JOB DESCRIPTION

125915/JM02.08.G01.1/36500

## JOB NUMBER

680-238535-1

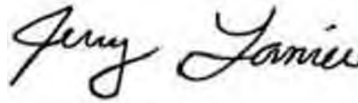
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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Authorized for release by  
Jerry Lanier, Project Manager I  
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(912)250-0281



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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

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## Job ID: 680-238535-1

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Laboratory: Eurofins Savannah

### Narrative

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#### Job Narrative 680-238535-1

#### Receipt

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

#### Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: AF68753 (680-238535-1), AF68759 (680-238535-2), AF68752 (680-238535-3), AF68735 (680-238535-4), AF68756 (680-238535-5), AF68758 (680-238535-6), AF68759 (680-238535-7), AF68736 (680-238535-8) and AF68754 (680-238535-9).

Sample -7 not found in cooler.

Sample 9 not listed on COC.

#### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238535-1	AF68753	Water	07/06/23 13:08	08/02/23 10:45
680-238535-2	AF68759	Water	07/06/23 13:13	08/02/23 10:45
680-238535-3	AF68752	Water	07/06/23 14:09	08/02/23 10:45
680-238535-4	AF68735	Water	07/05/23 09:35	08/02/23 10:45
680-238535-5	AF68756	Water	07/05/23 11:39	08/02/23 10:45
680-238535-6	AF68758	Water	07/06/23 09:47	08/02/23 10:45
680-238535-8	AF68736	Water	07/06/23 11:21	08/02/23 10:45
680-238535-9	AF68754	Water	07/06/23 13:13	08/02/23 10:45

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68753**

**Lab Sample ID: 680-238535-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	90200		500		ug/L	1		6010D	Total Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total Recoverable
Iron	3330		100		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68759**

**Lab Sample ID: 680-238535-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	190000		500		ug/L	1		6010D	Total Recoverable
Arsenic	4.53		3.00		ug/L	1		6020B	Total Recoverable
Barium	41.7		5.00		ug/L	1		6020B	Total Recoverable
Iron	433		100		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68752**

**Lab Sample ID: 680-238535-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	18700		500		ug/L	1		6010D	Total Recoverable
Arsenic	10.7		3.00		ug/L	1		6020B	Total Recoverable
Barium	32.8		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.810		0.500		ug/L	1		6020B	Total Recoverable
Iron	608		100		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68735**

**Lab Sample ID: 680-238535-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92600		500		ug/L	1		6010D	Total Recoverable
Arsenic	216		3.00		ug/L	1		6020B	Total Recoverable
Barium	139		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.780		0.500		ug/L	1		6020B	Total Recoverable
Iron	1040		100		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68756**

**Lab Sample ID: 680-238535-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62200		500		ug/L	1		6010D	Total Recoverable
Arsenic	77.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	33.3		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.09		0.500		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

### Client Sample ID: AF68756 (Continued)

### Lab Sample ID: 680-238535-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1750		100		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68758

### Lab Sample ID: 680-238535-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	193000		500		ug/L	1		6010D	Total Recoverable
Arsenic	4.57		3.00		ug/L	1		6020B	Total Recoverable
Barium	41.4		5.00		ug/L	1		6020B	Total Recoverable
Iron	466		100		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68736

### Lab Sample ID: 680-238535-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	639000		500		ug/L	1		6010D	Total Recoverable
Arsenic	173		3.00		ug/L	1		6020B	Total Recoverable
Barium	104		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.640		0.500		ug/L	1		6020B	Total Recoverable
Iron	2750		100		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68754

### Lab Sample ID: 680-238535-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	88000		500		ug/L	1		6010D	Total Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total Recoverable
Iron	3320		100		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68753**

**Lab Sample ID: 680-238535-1**

Date Collected: 07/06/23 13:08

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	90200		500		ug/L		08/03/23 06:38	08/04/23 17:33	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:33	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
<b>Barium</b>	<b>38.4</b>		5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:42	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:42	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:42	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
<b>Iron</b>	<b>3330</b>		100		ug/L		08/03/23 06:38	08/08/23 15:42	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:42	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:42	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68759**

**Lab Sample ID: 680-238535-2**

Date Collected: 07/06/23 13:13

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		500		ug/L		08/03/23 06:38	08/04/23 17:30	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:30	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Arsenic	4.53		3.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Barium	41.7		5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:38	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:38	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:38	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Iron	433		100		ug/L		08/03/23 06:38	08/08/23 15:38	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:38	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:38	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68752**

**Lab Sample ID: 680-238535-3**

Date Collected: 07/06/23 14:09

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	18700		500		ug/L		08/03/23 06:38	08/04/23 17:38	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:38	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Arsenic	10.7		3.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Barium	32.8		5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:50	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:50	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Cobalt	0.810		0.500		ug/L		08/03/23 06:38	08/08/23 15:50	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Iron	608		100		ug/L		08/03/23 06:38	08/08/23 15:50	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:50	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:50	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68735**

**Lab Sample ID: 680-238535-4**

Date Collected: 07/05/23 09:35

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	92600		500		ug/L		08/07/23 12:18	08/08/23 14:06	1
Selenium	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 14:06	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
<b>Arsenic</b>	<b>216</b>		3.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
<b>Barium</b>	<b>139</b>		5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Beryllium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:45	1
Cadmium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:45	1
Chromium	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
<b>Cobalt</b>	<b>0.780</b>		0.500		ug/L		08/07/23 12:18	08/08/23 20:45	1
Copper	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
<b>Iron</b>	<b>1040</b>		100		ug/L		08/07/23 12:18	08/08/23 20:45	1
Lead	2.50	U	2.50		ug/L		08/07/23 12:18	08/08/23 20:45	1
Nickel	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Thallium	1.00	U	1.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Zinc	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 20:45	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68756**

**Lab Sample ID: 680-238535-5**

Date Collected: 07/05/23 11:39

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62200		500		ug/L		08/07/23 12:18	08/08/23 14:04	1
Selenium	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 14:04	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Arsenic	77.6		3.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Barium	33.3		5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Beryllium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:41	1
Cadmium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:41	1
Chromium	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Cobalt	1.09		0.500		ug/L		08/07/23 12:18	08/08/23 20:41	1
Copper	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Iron	1750		100		ug/L		08/07/23 12:18	08/08/23 20:41	1
Lead	2.50	U	2.50		ug/L		08/07/23 12:18	08/08/23 20:41	1
Nickel	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Thallium	1.00	U	1.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Zinc	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 20:41	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68758**

**Lab Sample ID: 680-238535-6**

Date Collected: 07/06/23 09:47

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	193000		500		ug/L		08/03/23 06:38	08/04/23 17:43	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:43	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Arsenic	4.57		3.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Barium	41.4		5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:54	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:54	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:54	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Iron	466		100		ug/L		08/03/23 06:38	08/08/23 15:54	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:54	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:54	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68736**

**Lab Sample ID: 680-238535-8**

Date Collected: 07/06/23 11:21

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	639000		500		ug/L		08/03/23 06:38	08/04/23 17:55	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:55	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Arsenic	173		3.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Barium	104		5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 16:02	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 16:02	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Cobalt	0.640		0.500		ug/L		08/03/23 06:38	08/08/23 16:02	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Iron	2750		100		ug/L		08/03/23 06:38	08/08/23 16:02	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 16:02	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 16:02	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68754**

**Lab Sample ID: 680-238535-9**

Date Collected: 07/06/23 13:13

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	88000		500		ug/L		08/03/23 06:38	08/04/23 17:35	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:35	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
<b>Barium</b>	<b>38.4</b>		5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:46	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:46	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:46	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
<b>Iron</b>	<b>3320</b>		100		ug/L		08/03/23 06:38	08/08/23 15:46	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:46	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:46	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791519/1-A  
 Matrix: Water  
 Analysis Batch: 791897

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791519

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

Lab Sample ID: LCS 680-791519/2-A  
 Matrix: Water  
 Analysis Batch: 791897

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 791519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4801		ug/L		96	80 - 120	
Selenium	100	99.73		ug/L		100	80 - 120	

Lab Sample ID: MB 680-792124/1-A  
 Matrix: Water  
 Analysis Batch: 792466

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 792124

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/07/23 12:18	08/08/23 13:37	1
Selenium	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 13:37	1

Lab Sample ID: LCS 680-792124/2-A  
 Matrix: Water  
 Analysis Batch: 792466

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 792124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4954		ug/L		99	80 - 120	
Selenium	100	93.06		ug/L		93	80 - 120	

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791518/1-A  
 Matrix: Water  
 Analysis Batch: 792490

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791518

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1



# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-791518/2-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	50.0	46.52		ug/L		93	80 - 120	
Arsenic	100	97.80		ug/L		98	80 - 120	
Barium	100	95.86		ug/L		96	80 - 120	
Beryllium	50.0	48.56		ug/L		97	80 - 120	
Cadmium	50.0	46.20		ug/L		92	80 - 120	
Chromium	100	100.4		ug/L		100	80 - 120	
Cobalt	50.0	47.54		ug/L		95	80 - 120	
Copper	100	102.8		ug/L		103	80 - 120	
Iron	4990	5052		ug/L		101	80 - 120	
Lead	500	485.1		ug/L		97	80 - 120	
Nickel	100	98.89		ug/L		99	80 - 120	
Thallium	50.0	46.82		ug/L		94	80 - 120	
Zinc	100	101.9		ug/L		102	80 - 120	

**Lab Sample ID: MB 680-792127/1-A**  
**Matrix: Water**  
**Analysis Batch: 792446**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 792127**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Arsenic	3.00	U	3.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Barium	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Beryllium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 19:49	1
Cadmium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 19:49	1
Chromium	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Cobalt	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 19:49	1
Copper	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Iron	100	U	100		ug/L		08/07/23 12:18	08/08/23 19:49	1
Lead	2.50	U	2.50		ug/L		08/07/23 12:18	08/08/23 19:49	1
Nickel	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Thallium	1.00	U	1.00		ug/L		08/07/23 12:18	08/08/23 19:49	1
Zinc	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 19:49	1

**Lab Sample ID: LCS 680-792127/2-A**  
**Matrix: Water**  
**Analysis Batch: 792446**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 792127**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	50.0	45.43		ug/L		91	80 - 120	
Arsenic	100	96.81		ug/L		97	80 - 120	
Barium	100	94.51		ug/L		95	80 - 120	
Beryllium	50.0	47.73		ug/L		95	80 - 120	
Cadmium	50.0	45.92		ug/L		92	80 - 120	
Chromium	100	96.26		ug/L		96	80 - 120	
Cobalt	50.0	45.66		ug/L		91	80 - 120	
Copper	100	98.43		ug/L		98	80 - 120	
Iron	4990	4813		ug/L		96	80 - 120	
Lead	500	453.3		ug/L		91	80 - 120	
Nickel	100	96.32		ug/L		96	80 - 120	

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# QC Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-792127/2-A

Matrix: Water

Analysis Batch: 792446

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 792127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	50.0	44.90		ug/L		90	80 - 120
Zinc	100	97.52		ug/L		98	80 - 120

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Metals

### Prep Batch: 791518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	3005A	
680-238535-2	AF68759	Total Recoverable	Water	3005A	
680-238535-3	AF68752	Total Recoverable	Water	3005A	
680-238535-6	AF68758	Total Recoverable	Water	3005A	
680-238535-8	AF68736	Total Recoverable	Water	3005A	
680-238535-9	AF68754	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	3005A	
680-238535-2	AF68759	Total Recoverable	Water	3005A	
680-238535-3	AF68752	Total Recoverable	Water	3005A	
680-238535-6	AF68758	Total Recoverable	Water	3005A	
680-238535-8	AF68736	Total Recoverable	Water	3005A	
680-238535-9	AF68754	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	6010D	791519
680-238535-2	AF68759	Total Recoverable	Water	6010D	791519
680-238535-3	AF68752	Total Recoverable	Water	6010D	791519
680-238535-6	AF68758	Total Recoverable	Water	6010D	791519
680-238535-8	AF68736	Total Recoverable	Water	6010D	791519
680-238535-9	AF68754	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

### Prep Batch: 792124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	3005A	
680-238535-5	AF68756	Total Recoverable	Water	3005A	
MB 680-792124/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-792124/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 792127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	3005A	
680-238535-5	AF68756	Total Recoverable	Water	3005A	
MB 680-792127/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-792127/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 792446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	6020B	792127
680-238535-5	AF68756	Total Recoverable	Water	6020B	792127
MB 680-792127/1-A	Method Blank	Total Recoverable	Water	6020B	792127
LCS 680-792127/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792127

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# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Metals

### Analysis Batch: 792466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	6010D	792124
680-238535-5	AF68756	Total Recoverable	Water	6010D	792124
MB 680-792124/1-A	Method Blank	Total Recoverable	Water	6010D	792124
LCS 680-792124/2-A	Lab Control Sample	Total Recoverable	Water	6010D	792124

### Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	6020B	791518
680-238535-2	AF68759	Total Recoverable	Water	6020B	791518
680-238535-3	AF68752	Total Recoverable	Water	6020B	791518
680-238535-6	AF68758	Total Recoverable	Water	6020B	791518
680-238535-8	AF68736	Total Recoverable	Water	6020B	791518
680-238535-9	AF68754	Total Recoverable	Water	6020B	791518
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68753**

**Lab Sample ID: 680-238535-1**

Date Collected: 07/06/23 13:08

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:33
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:42

**Client Sample ID: AF68759**

**Lab Sample ID: 680-238535-2**

Date Collected: 07/06/23 13:13

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:30
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:38

**Client Sample ID: AF68752**

**Lab Sample ID: 680-238535-3**

Date Collected: 07/06/23 14:09

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:38
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:50

**Client Sample ID: AF68735**

**Lab Sample ID: 680-238535-4**

Date Collected: 07/05/23 09:35

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			792124	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6010D		1	792466	BJB	EET SAV	08/08/23 14:06
Total Recoverable	Prep	3005A			792127	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6020B		1	792446	BWR	EET SAV	08/08/23 20:45

**Client Sample ID: AF68756**

**Lab Sample ID: 680-238535-5**

Date Collected: 07/05/23 11:39

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			792124	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6010D		1	792466	BJB	EET SAV	08/08/23 14:04
Total Recoverable	Prep	3005A			792127	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6020B		1	792446	BWR	EET SAV	08/08/23 20:41

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

**Client Sample ID: AF68758**

**Lab Sample ID: 680-238535-6**

Date Collected: 07/06/23 09:47

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:43
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:54

**Client Sample ID: AF68736**

**Lab Sample ID: 680-238535-8**

Date Collected: 07/06/23 11:21

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:55
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 16:02

**Client Sample ID: AF68754**

**Lab Sample ID: 680-238535-9**

Date Collected: 07/06/23 13:13

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:35
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:46

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

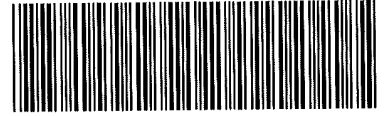
# Chain of Custody

**santee cooper**  
 Santee Cooper  
 One Riverwood Drive  
 Moncks Corner, SC 29461  
 Phone (843)761-8000 Ext 5148  
 Fax (843)761-4175

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.08.G-01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc sample info • Any other notes	TOTAL METALS -SEE BELOW	Analysis Group			
AF68753	WLF-A1-4	7/6/23	1308	WJK ML	1	P	G	GW	2	6020	X				
AF68759	WLF-A1-4 DUP		1313							- SEE SHEET FOR RLS					
AF68752	WLF-A1-3		1409												
AF68735	WAP-18	7/5/23	0935							PLEASE RETURN UFGV COMPLETION.					
AF68756	WLF-A2-1		1139												
AF68758	WLF-A2-6	7/6/23	0947												
AF68759	WLF-A2-6 DUP		0952												
AF68736	WAP-19		1121												



680-238535 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	8/2/23	0756	<i>E.Hodge</i>	COURIER	8/2/23	0756
<i>E.Hodge</i>	Courier	8/2/23	1044	<i>JA</i>	JA	8.2.23	1045

Sample Receiving (Intgral Use Only)  
 TEMP (°C): 42/43 Initial:             
 Correct pH: Yes  No   
 Preservative Lot#:             
 Date/Time/Init for preservative:           

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input checked="" type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AlM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> TOC <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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# Chain of Custody

santee cooper

Santee Cooper  
One Riverwood Drive  
Moncks Corner, SC 29461  
Phone (843)761-8000 Ext 5148  
Fax (843)761-4175

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.08.GW-1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass/ G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc sample info • Any other notes	TOTAL METALS - SEE BELOW
AF68753	WLF-A1-4	7/6/23	1308	WJK ML	1	P	G	GW	2	6020	X
AF68754	WLF-A1-4	8/7/23									
AF68759	WLF-A1-4 DUP		1313							- SEE SHEET FOR RLS	
AF68752	WLF-A1-3		1409								
AF68735	WAP-18	7/5/23	0935							PLEASE RETURN UPON COMPLETION.	
AF68756	WLF-A2-1		1139								
AF68758	WLF-A2-6	7/6/23	0947								
AF68759	WLF-A2-6 DUP		0952								
AF68736	WAP-19		1121								



680-238535 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
slbrown	85594	8/2/23	0756	Ehodge	COURIER	8/2/23	0756
Ehodge	Courier	8/2/23	1644	TA	TA	8.2.23	1045

Sample Receiving (Internal Use Only)  
TEMP (°C): 42/43 Initial:             
Correct pH: Yes  No   
Preservative Lot#:             
Date/Time/Init for preservative:           

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Fluash	Oil
<input type="checkbox"/> Ag	<input checked="" type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb	<input type="checkbox"/> FOC	<input type="checkbox"/> BITX	<input type="checkbox"/> Water	<input checked="" type="checkbox"/> Oil	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Fuel Oil
<input type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum	<input checked="" type="checkbox"/> Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> Grease
<input checked="" type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/PO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Solids
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> E. Coli	<input checked="" type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Total Solids
<input checked="" type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> BTUs	<input type="checkbox"/> Ash/Inert	<input type="checkbox"/> Total Oil
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> P.E. Coli	<input type="checkbox"/> pH	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sludge	<input type="checkbox"/> Total Chloride
<input checked="" type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Total Chlorine
<input checked="" type="checkbox"/> Cd	<input type="checkbox"/> Na	<input checked="" type="checkbox"/> Zn	<input type="checkbox"/> NO3	<input type="checkbox"/> pH	<input type="checkbox"/> Dissolved Fe	<b>Other Tests:</b>	<b>NPDES</b>	<input type="checkbox"/> Oil & Grease
<input checked="" type="checkbox"/> Co	<input checked="" type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 226	<input type="checkbox"/> Rad 228	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Ar	<input type="checkbox"/> TSS
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> PCB		<input type="checkbox"/> HCl		

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)



## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-238535-1

**Login Number: 238535**

**List Number: 1**

**Creator: Sims, Robert D**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

- 1
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\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 8/9/2023 8:32:53 AM

## JOB DESCRIPTION

125915/JM02.08.G01.3/36500

## JOB NUMBER

680-238533-1

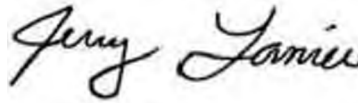
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



Generated  
8/9/2023 8:32:53 AM

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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

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**Job ID: 680-238533-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative  
680-238533-1**

**Receipt**

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238533-1	AF68718	Water	06/27/23 13:07	08/02/23 10:45
680-238533-2	AF68716	Water	06/28/23 10:32	08/02/23 10:45
680-238533-3	AF69285	Water	06/28/23 12:36	08/02/23 10:45
680-238533-4	AF68715	Water	06/29/23 09:47	08/02/23 10:45
680-238533-5	AF68722	Water	06/29/23 14:53	08/02/23 10:45

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF68718**

**Lab Sample ID: 680-238533-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	487000		500		ug/L	1		6010D	Total Recoverable
Arsenic	253		3.00		ug/L	1		6020B	Total Recoverable
Barium	214		5.00		ug/L	1		6020B	Total Recoverable
Iron	6310		100		ug/L	1		6020B	Total Recoverable
Magnesium	93200		250		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68716**

**Lab Sample ID: 680-238533-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	100000		500		ug/L	1		6010D	Total Recoverable
Aluminum	1580		100		ug/L	1		6020B	Total Recoverable
Barium	60.1		5.00		ug/L	1		6020B	Total Recoverable
Iron	4140		100		ug/L	1		6020B	Total Recoverable
Magnesium	2340		250		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF69285**

**Lab Sample ID: 680-238533-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	49000		500		ug/L	1		6010D	Total Recoverable
Iron	130		100		ug/L	1		6020B	Total Recoverable
Magnesium	3000		250		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68715**

**Lab Sample ID: 680-238533-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	63600		500		ug/L	1		6010D	Total Recoverable
Barium	9.33		5.00		ug/L	1		6020B	Total Recoverable
Magnesium	5390		250		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68722**

**Lab Sample ID: 680-238533-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	235000		500		ug/L	1		6010D	Total Recoverable
Barium	77.3		5.00		ug/L	1		6020B	Total Recoverable
Iron	8390		100		ug/L	1		6020B	Total Recoverable
Magnesium	9610		250		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF68718**

**Lab Sample ID: 680-238533-1**

Date Collected: 06/27/23 13:07

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	487000		500		ug/L		08/03/23 05:51	08/03/23 15:22	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:22	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:55	1
Arsenic	253		3.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Barium	214		5.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:55	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Iron	6310		100		ug/L		08/03/23 05:51	08/07/23 16:55	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:55	1
Magnesium	93200		250		ug/L		08/03/23 05:51	08/07/23 16:55	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:55	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF68716**

**Lab Sample ID: 680-238533-2**

Date Collected: 06/28/23 10:32

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100000		500		ug/L		08/03/23 05:51	08/03/23 15:08	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:08	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1580		100		ug/L		08/03/23 05:51	08/07/23 16:18	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Barium	60.1		5.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:18	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Iron	4140		100		ug/L		08/03/23 05:51	08/07/23 16:18	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:18	1
Magnesium	2340		250		ug/L		08/03/23 05:51	08/07/23 16:18	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:18	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF69285**

**Lab Sample ID: 680-238533-3**

Date Collected: 06/28/23 12:36

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49000		500		ug/L		08/03/23 06:38	08/04/23 17:25	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:25	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:30	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:30	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
<b>Iron</b>	<b>130</b>		100		ug/L		08/03/23 06:38	08/08/23 15:30	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:30	1
<b>Magnesium</b>	<b>3000</b>		250		ug/L		08/03/23 06:38	08/08/23 15:30	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:30	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF68715**

**Lab Sample ID: 680-238533-4**

Date Collected: 06/29/23 09:47

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	63600		500		ug/L		08/03/23 05:51	08/03/23 15:20	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:20	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:46	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
<b>Barium</b>	<b>9.33</b>		5.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:46	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:46	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:46	1
<b>Magnesium</b>	<b>5390</b>		250		ug/L		08/03/23 05:51	08/07/23 16:46	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:46	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF68722**

**Lab Sample ID: 680-238533-5**

Date Collected: 06/29/23 14:53

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	235000		500		ug/L		08/03/23 06:38	08/04/23 17:28	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:28	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:34	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
<b>Barium</b>	<b>77.3</b>		5.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:34	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
<b>Iron</b>	<b>8390</b>		100		ug/L		08/03/23 06:38	08/08/23 15:34	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:34	1
<b>Magnesium</b>	<b>9610</b>		250		ug/L		08/03/23 06:38	08/08/23 15:34	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:34	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791516/1-A  
 Matrix: Water  
 Analysis Batch: 791719

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791516

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 05:51	08/03/23 14:52	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 14:52	1

Lab Sample ID: LCS 680-791516/2-A  
 Matrix: Water  
 Analysis Batch: 791719

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 791516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4950		ug/L		99	80 - 120	
Selenium	100	94.39		ug/L		94	80 - 120	

Lab Sample ID: MB 680-791519/1-A  
 Matrix: Water  
 Analysis Batch: 791897

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791519

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

Lab Sample ID: LCS 680-791519/2-A  
 Matrix: Water  
 Analysis Batch: 791897

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 791519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4801		ug/L		96	80 - 120	
Selenium	100	99.73		ug/L		100	80 - 120	

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791513/1-A  
 Matrix: Water  
 Analysis Batch: 792230

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791513

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Barium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 15:57	1
Magnesium	250	U	250		ug/L		08/03/23 05:51	08/07/23 15:57	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 15:57	1



## QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

### Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-791513/2-A**  
**Matrix: Water**  
**Analysis Batch: 792230**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791513**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	5050	5120		ug/L		101	80 - 120	
Arsenic	100	106.4		ug/L		106	80 - 120	
Barium	100	102.9		ug/L		103	80 - 120	
Cadmium	50.0	50.92		ug/L		102	80 - 120	
Chromium	100	109.3		ug/L		109	80 - 120	
Copper	100	113.2		ug/L		113	80 - 120	
Iron	4990	5167		ug/L		104	80 - 120	
Lead	500	530.5		ug/L		106	80 - 120	
Magnesium	5000	4977		ug/L		100	80 - 120	
Zinc	100	110.4		ug/L		110	80 - 120	

**Lab Sample ID: MB 680-791518/1-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Magnesium	250	U	250		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1

**Lab Sample ID: LCS 680-791518/2-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	5050	4652		ug/L		92	80 - 120	
Arsenic	100	97.80		ug/L		98	80 - 120	
Barium	100	95.86		ug/L		96	80 - 120	
Cadmium	50.0	46.20		ug/L		92	80 - 120	
Chromium	100	100.4		ug/L		100	80 - 120	
Copper	100	102.8		ug/L		103	80 - 120	
Iron	4990	5052		ug/L		101	80 - 120	
Lead	500	485.1		ug/L		97	80 - 120	
Magnesium	5000	4591		ug/L		92	80 - 120	
Zinc	100	101.9		ug/L		102	80 - 120	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

## Metals

### Prep Batch: 791513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	3005A	
680-238533-2	AF68716	Total Recoverable	Water	3005A	
680-238533-4	AF68715	Total Recoverable	Water	3005A	
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	3005A	
680-238533-2	AF68716	Total Recoverable	Water	3005A	
680-238533-4	AF68715	Total Recoverable	Water	3005A	
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	3005A	
680-238533-5	AF68722	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	3005A	
680-238533-5	AF68722	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 791719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	6010D	791516
680-238533-2	AF68716	Total Recoverable	Water	6010D	791516
680-238533-4	AF68715	Total Recoverable	Water	6010D	791516
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	6010D	791516
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791516

### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	6010D	791519
680-238533-5	AF68722	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

### Analysis Batch: 792230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	6020B	791513
680-238533-2	AF68716	Total Recoverable	Water	6020B	791513
680-238533-4	AF68715	Total Recoverable	Water	6020B	791513
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	6020B	791513
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791513

# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

## Metals

### Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	6020B	791518
680-238533-5	AF68722	Total Recoverable	Water	6020B	791518
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

- 1
- 2
- 3
- 4
- 5
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- 9
- 10
- 11
- 12
- 13
- 14

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Client Sample ID: AF68718**

**Lab Sample ID: 680-238533-1**

Date Collected: 06/27/23 13:07

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:22
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:55

**Client Sample ID: AF68716**

**Lab Sample ID: 680-238533-2**

Date Collected: 06/28/23 10:32

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:08
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:18

**Client Sample ID: AF69285**

**Lab Sample ID: 680-238533-3**

Date Collected: 06/28/23 12:36

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:25
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:30

**Client Sample ID: AF68715**

**Lab Sample ID: 680-238533-4**

Date Collected: 06/29/23 09:47

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:20
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:46

**Client Sample ID: AF68722**

**Lab Sample ID: 680-238533-5**

Date Collected: 06/29/23 14:53

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:28
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:34

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Chain of Custody

**santee cooper**  
 Santee Cooper  
 One Riverwood Drive  
 Moncks Corner, SC 29461  
 Phone (843)761-8000 Ext 5148  
 Fax: (843)761-4175

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125915 / JMO2.08.G01.3 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW
AF68718	WAP-8	6/27/23	1307	WJK ML	1	P	G	GW	2	METHOD 6020	X
AF68716	WAP-6	6/25/23	1032							-SEE SHEET FOR RLS.	
AF69285	PPZW - 6D		1236							*PLEASE RETURN SAMPLES UPON COMPLETION.	
AF68715	WAP-5	6/29/23	0947								
AF68722	WAP-11		1453								



680-238533 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	8/2/23	0756	<i>E.Hodge</i>	COURIER	8/2/23	0756
<i>E.Hodge</i>	Courier	8/2/23	1044	<i>TA</i>	TA	8-2-23	1045

Sample Receiving (Internal Use Only)  
 TEMP (°C): 42/43 Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Int for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI			<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> ATM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	--	--	---	--	--

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-238533-1

**Login Number: 238533**

**List Number: 1**

**Creator: Sims, Robert D**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

- 1
- 2
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\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 1/9/2024 10:02:26 AM Revision 1

## JOB DESCRIPTION

125915/JM02 09 G011/36500

## JOB NUMBER

680-244376-1

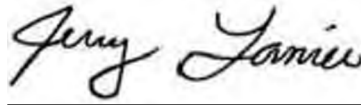
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



Generated  
1/9/2024 10:02:26 AM  
Revision 1

Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Job ID: 680-244376-1**

**Eurofins Savannah**

**Job Narrative  
680-244376-1**

## REVISION

The report being provided is a revision of the original report sent on 12/15/2023. The report (revision 1) is being revised due to Client is requesting batch QC to be reported..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

## **Receipt**

The samples were received on 12/14/2023 10:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 13.6°C

## **Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Savannah

# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-244376-1	AF85222	Water	12/11/23 13:19	12/14/23 10:32
680-244376-2	AF85223	Water	12/11/23 10:24	12/14/23 10:32
680-244376-3	AF85224	Water	12/11/23 10:29	12/14/23 10:32
680-244376-4	AF85225	Water	12/11/23 11:50	12/14/23 10:32

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Client Sample ID: AF85222**

**Lab Sample ID: 680-244376-1**

No Detections.

**Client Sample ID: AF85223**

**Lab Sample ID: 680-244376-2**

No Detections.

**Client Sample ID: AF85224**

**Lab Sample ID: 680-244376-3**

No Detections.

**Client Sample ID: AF85225**

**Lab Sample ID: 680-244376-4**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Savannah



# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Client Sample ID: AF85222**

**Lab Sample ID: 680-244376-1**

Date Collected: 12/11/23 13:19

Matrix: Water

Date Received: 12/14/23 10:32

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/15/23 09:10	12/15/23 16:02	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Client Sample ID: AF85223**

**Lab Sample ID: 680-244376-2**

Date Collected: 12/11/23 10:24

Matrix: Water

Date Received: 12/14/23 10:32

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/15/23 09:10	12/15/23 16:04	1

- 1
- 2
- 3
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Client Sample ID: AF85224**

**Lab Sample ID: 680-244376-3**

Date Collected: 12/11/23 10:29

Matrix: Water

Date Received: 12/14/23 10:32

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/15/23 09:10	12/15/23 16:06	1

- 1
- 2
- 3
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Client Sample ID: AF85225**

**Lab Sample ID: 680-244376-4**

Date Collected: 12/11/23 11:50

Matrix: Water

Date Received: 12/14/23 10:32

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/15/23 09:10	12/15/23 16:08	1

- 1
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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-813640/1-A**  
**Matrix: Water**  
**Analysis Batch: 813777**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 813640**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/15/23 09:10	12/15/23 12:50	1

**Lab Sample ID: LCS 680-813640/2-A**  
**Matrix: Water**  
**Analysis Batch: 813777**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 813640**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.453		ug/L		98	80 - 120

**Lab Sample ID: 680-244329-G-1-D MS**  
**Matrix: Water**  
**Analysis Batch: 813777**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 813640**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.200	U F1	1.00	0.8064		ug/L		81	80 - 120

**Lab Sample ID: 680-244329-G-1-E MSD**  
**Matrix: Water**  
**Analysis Batch: 813777**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 813640**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.200	U F1	1.00	0.7930	F1	ug/L		79	80 - 120	2	20

# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

## Metals

### Prep Batch: 813640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-244376-1	AF85222	Total/NA	Water	7470A	
680-244376-2	AF85223	Total/NA	Water	7470A	
680-244376-3	AF85224	Total/NA	Water	7470A	
680-244376-4	AF85225	Total/NA	Water	7470A	
MB 680-813640/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-813640/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-244329-G-1-D MS	Matrix Spike	Total/NA	Water	7470A	
680-244329-G-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Analysis Batch: 813777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-244376-1	AF85222	Total/NA	Water	7470A	813640
680-244376-2	AF85223	Total/NA	Water	7470A	813640
680-244376-3	AF85224	Total/NA	Water	7470A	813640
680-244376-4	AF85225	Total/NA	Water	7470A	813640
MB 680-813640/1-A	Method Blank	Total/NA	Water	7470A	813640
LCS 680-813640/2-A	Lab Control Sample	Total/NA	Water	7470A	813640
680-244329-G-1-D MS	Matrix Spike	Total/NA	Water	7470A	813640
680-244329-G-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	813640

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

**Client Sample ID: AF85222**

**Lab Sample ID: 680-244376-1**

Date Collected: 12/11/23 13:19

Matrix: Water

Date Received: 12/14/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:02

**Client Sample ID: AF85223**

**Lab Sample ID: 680-244376-2**

Date Collected: 12/11/23 10:24

Matrix: Water

Date Received: 12/14/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:04

**Client Sample ID: AF85224**

**Lab Sample ID: 680-244376-3**

Date Collected: 12/11/23 10:29

Matrix: Water

Date Received: 12/14/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:06

**Client Sample ID: AF85225**

**Lab Sample ID: 680-244376-4**

Date Collected: 12/11/23 11:50

Matrix: Water

Date Received: 12/14/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:08

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



One Riverwood Drive  
Moultrie, SC 29461  
Phone: (843)761-8000 Ext: 5148  
Fax: (843)761-4175

Chain of Custody  
Date Results Needed by: \_\_\_\_\_  
Project/Task/Unit #: \_\_\_\_\_  
Rerun request for any flagged QC \_\_\_\_\_

Customer Email/Report Recipient: LINDA WILLIAMS @santecooper.com

Analysis Group: 125715 / JM02 of GP1 / 36500  YES  NO

Contract Lab Due Date (Lab Only): 12 / 22 / 23

Send report to lwillia@santecooper.com & sbrown@santecooper.com

Labworks ID # (Internal use only)	Sample location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-g/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Method #	Reporting limit	Misc. sample info	Comments
AF85222	WAF-27	12/11/23	1319	FM	1	P	G	GW	2		RL < 0.2 ug/L		X
AF85223	WAF-28		1624										
AF85224	WAF-28 DUP		1029										
AF85225	WAF-29		1150										



680-244376 Chain of Custody

Sample Receiving (Internal Use Only) TEMP (C): 13.3 / 55.1 Initial: \_\_\_\_\_  
Correct pH: Yes  No   
Preservative Lot#: \_\_\_\_\_  
Date/Time/unit for preservative: \_\_\_\_\_

Received by:	Date	Time	Employee #
_____	12/12/23	1200	_____
_____	12/19/23	1032	_____

METALS (all)		Nutrients		MISC.		Gypsum		Coal		Flyash		Oil	
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> NH3-N	<input type="checkbox"/> TP/PP4	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Sulfate	<input type="checkbox"/> Ullmanite	<input type="checkbox"/> Ultimate	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Ammonia	<input type="checkbox"/> TOC	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> DOC	<input type="checkbox"/> THM/HA	<input type="checkbox"/> VOC	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> NH3-N	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> NH3-N	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> NO2	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> NO3	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> SO4	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Co	<input type="checkbox"/> Ni		<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb		<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTEX	<input type="checkbox"/> Total metals	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, O-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
Preservative code: 1-<4°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-Na2SO3, 6-Other (Specify)



# Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-244376-1

**Login Number: 244376**

**List Number: 1**

**Creator: Stewart, Rendaisha**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 8/25/2023 9:18:19 AM

## JOB DESCRIPTION

125915/JM02-08-G01.1/36500

## JOB NUMBER

680-237959-2

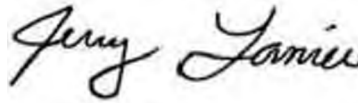
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

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**Job ID: 680-237959-2**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative**  
**680-237959-2**

**Receipt**

The samples were received on 7/20/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.7°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237959-1	AF68738	Water	07/12/23 12:28	07/20/23 09:45
680-237959-2	AF68732	Water	07/12/23 14:32	07/20/23 09:45
680-237959-3	AF68740	Water	07/12/23 11:01	07/20/23 09:45
680-237959-4	AF68743	Water	07/12/23 13:23	07/20/23 09:45
680-237959-5	AF68744	Water	07/12/23 13:28	07/20/23 09:45
680-237959-8	AF68725	Water	07/18/23 11:49	07/20/23 09:45
680-237959-9	AF68742	Water	07/18/23 14:53	07/20/23 09:45
680-237959-10	AF68747	Water	07/17/23 10:08	07/20/23 09:45
680-237959-11	AF68731	Water	07/17/23 11:15	07/20/23 09:45
680-237959-12	AF68723	Water	07/17/23 13:00	07/20/23 09:45
680-237959-13	AF68724	Water	07/17/23 13:05	07/20/23 09:45
680-237959-14	AF68746	Water	07/17/23 14:24	07/20/23 09:45
680-237959-15	AF68726	Water	07/13/23 14:16	07/20/23 09:45
680-237959-16	AF68727	Water	07/13/23 14:21	07/20/23 09:45
680-237959-17	AF68730	Water	07/13/23 10:01	07/20/23 09:45
680-237959-18	AF68729	Water	07/13/23 11:24	07/20/23 09:45
680-237959-19	AF68728	Water	07/13/23 13:32	07/20/23 09:45

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Qualifiers

Metals	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68738**

**Lab Sample ID: 680-237959-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97000		500		ug/L	1		6010D	Total Recoverable
Arsenic	5.72		3.00		ug/L	1		6020B	Total Recoverable
Barium	79.2		5.00		ug/L	1		6020B	Total Recoverable
Chromium	29.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.31		0.500		ug/L	1		6020B	Total Recoverable
Lead	11.0		2.50		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68732**

**Lab Sample ID: 680-237959-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	220000		500		ug/L	1		6010D	Total Recoverable
Barium	94.3		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68740**

**Lab Sample ID: 680-237959-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	348000		500		ug/L	1		6010D	Total Recoverable
Arsenic	443		3.00		ug/L	1		6020B	Total Recoverable
Barium	186		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68743**

**Lab Sample ID: 680-237959-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19200		500		ug/L	1		6010D	Total Recoverable
Barium	35.1		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68744**

**Lab Sample ID: 680-237959-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20300		500		ug/L	1		6010D	Total Recoverable
Barium	36.9		5.00		ug/L	1		6020B	Total Recoverable

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	400000		500		ug/L	1		6010D	Total Recoverable
Barium	270		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.500		0.500		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Client Sample ID: AF68742

## Lab Sample ID: 680-237959-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	61400		500		ug/L	1		6010D	Total Recoverable
Barium	8.14		5.00		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF68747

## Lab Sample ID: 680-237959-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	519000		500		ug/L	1		6010D	Total Recoverable
Barium	36.3		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	4.31		0.500		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF68731

## Lab Sample ID: 680-237959-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	176000		500		ug/L	1		6010D	Total Recoverable
Barium	153		5.00		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF68723

## Lab Sample ID: 680-237959-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	139000		500		ug/L	1		6010D	Total Recoverable
Barium	21.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.925		0.500		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF68724

## Lab Sample ID: 680-237959-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	139000		500		ug/L	1		6010D	Total Recoverable
Barium	22.9		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.975		0.500		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF68746

## Lab Sample ID: 680-237959-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97500		500		ug/L	1		6010D	Total Recoverable
Barium	191		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.695		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	18.8		0.500		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

### Client Sample ID: AF68726

### Lab Sample ID: 680-237959-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1160000		5000		ug/L	10		6010D	Total Recoverable
Arsenic	22.3		3.00		ug/L	1		6020B	Total Recoverable
Barium	49.8		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68727

### Lab Sample ID: 680-237959-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1230000		5000		ug/L	10		6010D	Total Recoverable
Arsenic	18.2		3.00		ug/L	1		6020B	Total Recoverable
Barium	46.7		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68730

### Lab Sample ID: 680-237959-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	165000		500		ug/L	1		6010D	Total Recoverable
Barium	85.4		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.735		0.500		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68729

### Lab Sample ID: 680-237959-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	688000		500		ug/L	1		6010D	Total Recoverable
Arsenic	7.80		3.00		ug/L	1		6020B	Total Recoverable
Barium	133		5.00		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68728

### Lab Sample ID: 680-237959-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	832000		5000		ug/L	10		6010D	Total Recoverable
Arsenic	6.75		3.00		ug/L	1		6020B	Total Recoverable
Barium	82.3		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68738**

**Lab Sample ID: 680-237959-1**

Date Collected: 07/12/23 12:28

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97000		500		ug/L		08/24/23 05:25	08/24/23 10:28	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:28	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:15	1
Arsenic	5.72		3.00		ug/L		08/24/23 05:25	08/24/23 11:15	1
Barium	79.2		5.00		ug/L		08/24/23 05:25	08/24/23 11:15	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:15	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:15	1
Chromium	29.6		5.00		ug/L		08/24/23 05:25	08/24/23 11:15	1
Cobalt	2.31		0.500		ug/L		08/24/23 05:25	08/24/23 11:15	1
Lead	11.0		2.50		ug/L		08/24/23 05:25	08/24/23 11:15	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:15	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68732**

**Lab Sample ID: 680-237959-2**

Date Collected: 07/12/23 14:32

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	220000		500		ug/L		08/24/23 05:25	08/24/23 10:21	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:21	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
<b>Barium</b>	<b>94.3</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:02	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:02	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:02	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:02	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:02	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68740**

**Lab Sample ID: 680-237959-3**

Date Collected: 07/12/23 11:01

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	348000		500		ug/L		08/24/23 05:25	08/24/23 10:30	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:30	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Arsenic	443		3.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Barium	186		5.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:19	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:19	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:19	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:19	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:19	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68743**

**Lab Sample ID: 680-237959-4**

Date Collected: 07/12/23 13:23

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19200		500		ug/L		08/24/23 05:25	08/24/23 10:33	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:33	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
<b>Barium</b>	<b>35.1</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:23	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:23	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:23	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:23	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:23	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68744**

**Lab Sample ID: 680-237959-5**

Date Collected: 07/12/23 13:28

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20300		500		ug/L		08/24/23 05:25	08/24/23 10:35	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:35	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
<b>Barium</b>	<b>36.9</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:27	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:27	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:27	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:27	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:27	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-8**

Date Collected: 07/18/23 11:49

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400000		500		ug/L		08/24/23 05:25	08/24/23 10:47	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:47	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
<b>Barium</b>	<b>270</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:47	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:47	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
<b>Cobalt</b>	<b>0.500</b>		0.500		ug/L		08/24/23 05:25	08/24/23 11:47	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:47	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:47	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68742**

**Lab Sample ID: 680-237959-9**

Date Collected: 07/18/23 14:53

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	61400		500		ug/L		08/24/23 05:25	08/24/23 10:49	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:49	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
<b>Barium</b>	<b>8.14</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:51	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:51	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:51	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:51	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:51	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68747**

**Lab Sample ID: 680-237959-10**

Date Collected: 07/17/23 10:08

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	519000		500		ug/L		08/24/23 05:25	08/24/23 10:51	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:51	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
<b>Barium</b>	<b>36.3</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:55	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:55	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
<b>Cobalt</b>	<b>4.31</b>		0.500		ug/L		08/24/23 05:25	08/24/23 11:55	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:55	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:55	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68731**

**Lab Sample ID: 680-237959-11**

Date Collected: 07/17/23 11:15

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	176000		500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:54	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
<b>Barium</b>	<b>153</b>		5.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:59	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:59	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:59	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:59	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:59	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68723**

**Lab Sample ID: 680-237959-12**

Date Collected: 07/17/23 13:00

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	139000		500		ug/L		08/24/23 05:25	08/24/23 10:56	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:56	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
<b>Barium</b>	<b>21.6</b>		5.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:03	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:03	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
<b>Cobalt</b>	<b>0.925</b>		0.500		ug/L		08/24/23 05:25	08/24/23 12:03	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:03	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:03	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68724**

**Lab Sample ID: 680-237959-13**

Date Collected: 07/17/23 13:05

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	139000		500		ug/L		08/24/23 05:25	08/24/23 10:58	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:58	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
<b>Barium</b>	<b>22.9</b>		5.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:07	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:07	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
<b>Cobalt</b>	<b>0.975</b>		0.500		ug/L		08/24/23 05:25	08/24/23 12:07	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:07	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:07	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68746**

**Lab Sample ID: 680-237959-14**

Date Collected: 07/17/23 14:24

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97500		500		ug/L		08/24/23 05:25	08/24/23 11:01	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:01	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
<b>Barium</b>	<b>191</b>		5.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
<b>Beryllium</b>	<b>0.695</b>		0.500		ug/L		08/24/23 05:25	08/24/23 12:11	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:11	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
<b>Cobalt</b>	<b>18.8</b>		0.500		ug/L		08/24/23 05:25	08/24/23 12:11	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:11	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:11	1





# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68726**

**Lab Sample ID: 680-237959-15**

Date Collected: 07/13/23 14:16

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1160000		5000		ug/L		08/24/23 05:25	08/25/23 09:25	10
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:03	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Arsenic	22.3		3.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Barium	49.8		5.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:15	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:15	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:15	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:15	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:15	1



# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68727**

**Lab Sample ID: 680-237959-16**

Date Collected: 07/13/23 14:21

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1230000		5000		ug/L		08/24/23 05:25	08/25/23 09:27	10
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:05	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Arsenic	18.2		3.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Barium	46.7		5.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:19	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:19	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:19	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:19	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:19	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68730**

**Lab Sample ID: 680-237959-17**

Date Collected: 07/13/23 10:01

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	165000		500		ug/L		08/24/23 05:25	08/24/23 11:12	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:12	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
<b>Barium</b>	<b>85.4</b>		5.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:31	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:31	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
<b>Cobalt</b>	<b>0.735</b>		0.500		ug/L		08/24/23 05:25	08/24/23 12:31	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:31	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:31	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68729**

**Lab Sample ID: 680-237959-18**

Date Collected: 07/13/23 11:24

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	688000		500		ug/L		08/24/23 05:25	08/24/23 11:15	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:15	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:36	1
Arsenic	7.80		3.00		ug/L		08/24/23 05:25	08/24/23 12:36	1
Barium	133		5.00		ug/L		08/24/23 05:25	08/24/23 12:36	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:36	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:36	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:36	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:36	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:36	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:36	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68728**

**Lab Sample ID: 680-237959-19**

Date Collected: 07/13/23 13:32

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	832000		5000		ug/L		08/24/23 05:25	08/25/23 09:30	10
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:17	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Arsenic	6.75		3.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Barium	82.3		5.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:40	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:40	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:40	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:40	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:40	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-794834/1-A  
 Matrix: Water  
 Analysis Batch: 795099

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 794834

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/24/23 05:25	08/24/23 10:16	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:16	1

Lab Sample ID: LCS 680-794834/2-A  
 Matrix: Water  
 Analysis Batch: 795099

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 794834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4816		ug/L		96	80 - 120	
Selenium	100	93.62		ug/L		94	80 - 120	

Lab Sample ID: 680-237959-2 MS  
 Matrix: Water  
 Analysis Batch: 795099

Client Sample ID: AF68732  
 Prep Type: Total Recoverable  
 Prep Batch: 794834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Calcium	220000		5000	215400	4	ug/L		-88	75 - 125	
Selenium	20.0	U	100	96.81		ug/L		97	75 - 125	

Lab Sample ID: 680-237959-2 MSD  
 Matrix: Water  
 Analysis Batch: 795099

Client Sample ID: AF68732  
 Prep Type: Total Recoverable  
 Prep Batch: 794834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Calcium	220000		5000	215500	4	ug/L		-86	75 - 125	0	20	
Selenium	20.0	U	100	95.16		ug/L		95	75 - 125	2	20	

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-794835/1-A  
 Matrix: Water  
 Analysis Batch: 795151

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 794835

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Barium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 10:54	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 10:54	1

Lab Sample ID: LCS 680-794835/2-A  
 Matrix: Water  
 Analysis Batch: 795151

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 794835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	50.0	49.39		ug/L		99	80 - 120	

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-794835/2-A**  
**Matrix: Water**  
**Analysis Batch: 795151**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 794835**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	100	105.6		ug/L		106	80 - 120
Barium	100	100.0		ug/L		100	80 - 120
Beryllium	50.0	50.74		ug/L		101	80 - 120
Cadmium	50.0	48.95		ug/L		98	80 - 120
Chromium	100	106.9		ug/L		107	80 - 120
Cobalt	50.0	54.47		ug/L		109	80 - 120
Lead	500	504.3		ug/L		101	80 - 120
Thallium	50.0	48.11		ug/L		96	80 - 120

**Lab Sample ID: 680-237959-2 MS**  
**Matrix: Water**  
**Analysis Batch: 795151**

**Client Sample ID: AF68732**  
**Prep Type: Total Recoverable**  
**Prep Batch: 794835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Antimony	5.00	U	50.0	50.20		ug/L		100	75 - 125
Arsenic	3.00	U	100	103.6		ug/L		104	75 - 125
Barium	94.3		100	179.3		ug/L		85	75 - 125
Beryllium	0.500	U	50.0	51.30		ug/L		103	75 - 125
Cadmium	0.500	U	50.0	49.86		ug/L		100	75 - 125
Chromium	5.00	U	100	105.6		ug/L		104	75 - 125
Cobalt	0.500	U	50.0	53.02		ug/L		106	75 - 125
Lead	2.50	U	500	503.2		ug/L		101	75 - 125
Thallium	1.00	U	50.0	48.43		ug/L		97	75 - 125

**Lab Sample ID: 680-237959-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 795151**

**Client Sample ID: AF68732**  
**Prep Type: Total Recoverable**  
**Prep Batch: 794835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Antimony	5.00	U	50.0	54.09		ug/L		108	75 - 125	7	20	
Arsenic	3.00	U	100	109.0		ug/L		109	75 - 125	5	20	
Barium	94.3		100	192.8		ug/L		98	75 - 125	7	20	
Beryllium	0.500	U	50.0	51.49		ug/L		103	75 - 125	0	20	
Cadmium	0.500	U	50.0	52.76		ug/L		106	75 - 125	6	20	
Chromium	5.00	U	100	110.4		ug/L		109	75 - 125	5	20	
Cobalt	0.500	U	50.0	56.07		ug/L		112	75 - 125	6	20	
Lead	2.50	U	500	525.7		ug/L		105	75 - 125	4	20	
Thallium	1.00	U	50.0	51.37		ug/L		103	75 - 125	6	20	

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Metals

### Prep Batch: 794834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total Recoverable	Water	3005A	
680-237959-2	AF68732	Total Recoverable	Water	3005A	
680-237959-3	AF68740	Total Recoverable	Water	3005A	
680-237959-4	AF68743	Total Recoverable	Water	3005A	
680-237959-5	AF68744	Total Recoverable	Water	3005A	
680-237959-8	AF68725	Total Recoverable	Water	3005A	
680-237959-9	AF68742	Total Recoverable	Water	3005A	
680-237959-10	AF68747	Total Recoverable	Water	3005A	
680-237959-11	AF68731	Total Recoverable	Water	3005A	
680-237959-12	AF68723	Total Recoverable	Water	3005A	
680-237959-13	AF68724	Total Recoverable	Water	3005A	
680-237959-14	AF68746	Total Recoverable	Water	3005A	
680-237959-15	AF68726	Total Recoverable	Water	3005A	
680-237959-16	AF68727	Total Recoverable	Water	3005A	
680-237959-17	AF68730	Total Recoverable	Water	3005A	
680-237959-18	AF68729	Total Recoverable	Water	3005A	
680-237959-19	AF68728	Total Recoverable	Water	3005A	
MB 680-794834/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-794834/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-237959-2 MS	AF68732	Total Recoverable	Water	3005A	
680-237959-2 MSD	AF68732	Total Recoverable	Water	3005A	

### Prep Batch: 794835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total Recoverable	Water	3005A	
680-237959-2	AF68732	Total Recoverable	Water	3005A	
680-237959-3	AF68740	Total Recoverable	Water	3005A	
680-237959-4	AF68743	Total Recoverable	Water	3005A	
680-237959-5	AF68744	Total Recoverable	Water	3005A	
680-237959-8	AF68725	Total Recoverable	Water	3005A	
680-237959-9	AF68742	Total Recoverable	Water	3005A	
680-237959-10	AF68747	Total Recoverable	Water	3005A	
680-237959-11	AF68731	Total Recoverable	Water	3005A	
680-237959-12	AF68723	Total Recoverable	Water	3005A	
680-237959-13	AF68724	Total Recoverable	Water	3005A	
680-237959-14	AF68746	Total Recoverable	Water	3005A	
680-237959-15	AF68726	Total Recoverable	Water	3005A	
680-237959-16	AF68727	Total Recoverable	Water	3005A	
680-237959-17	AF68730	Total Recoverable	Water	3005A	
680-237959-18	AF68729	Total Recoverable	Water	3005A	
680-237959-19	AF68728	Total Recoverable	Water	3005A	
MB 680-794835/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-794835/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-237959-2 MS	AF68732	Total Recoverable	Water	3005A	
680-237959-2 MSD	AF68732	Total Recoverable	Water	3005A	

### Analysis Batch: 795099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total Recoverable	Water	6010D	794834
680-237959-2	AF68732	Total Recoverable	Water	6010D	794834
680-237959-3	AF68740	Total Recoverable	Water	6010D	794834

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Metals (Continued)

### Analysis Batch: 795099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-4	AF68743	Total Recoverable	Water	6010D	794834
680-237959-5	AF68744	Total Recoverable	Water	6010D	794834
680-237959-8	AF68725	Total Recoverable	Water	6010D	794834
680-237959-9	AF68742	Total Recoverable	Water	6010D	794834
680-237959-10	AF68747	Total Recoverable	Water	6010D	794834
680-237959-11	AF68731	Total Recoverable	Water	6010D	794834
680-237959-12	AF68723	Total Recoverable	Water	6010D	794834
680-237959-13	AF68724	Total Recoverable	Water	6010D	794834
680-237959-14	AF68746	Total Recoverable	Water	6010D	794834
680-237959-15	AF68726	Total Recoverable	Water	6010D	794834
680-237959-16	AF68727	Total Recoverable	Water	6010D	794834
680-237959-17	AF68730	Total Recoverable	Water	6010D	794834
680-237959-18	AF68729	Total Recoverable	Water	6010D	794834
680-237959-19	AF68728	Total Recoverable	Water	6010D	794834
MB 680-794834/1-A	Method Blank	Total Recoverable	Water	6010D	794834
LCS 680-794834/2-A	Lab Control Sample	Total Recoverable	Water	6010D	794834
680-237959-2 MS	AF68732	Total Recoverable	Water	6010D	794834
680-237959-2 MSD	AF68732	Total Recoverable	Water	6010D	794834

### Analysis Batch: 795151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total Recoverable	Water	6020B	794835
680-237959-2	AF68732	Total Recoverable	Water	6020B	794835
680-237959-3	AF68740	Total Recoverable	Water	6020B	794835
680-237959-4	AF68743	Total Recoverable	Water	6020B	794835
680-237959-5	AF68744	Total Recoverable	Water	6020B	794835
680-237959-8	AF68725	Total Recoverable	Water	6020B	794835
680-237959-9	AF68742	Total Recoverable	Water	6020B	794835
680-237959-10	AF68747	Total Recoverable	Water	6020B	794835
680-237959-11	AF68731	Total Recoverable	Water	6020B	794835
680-237959-12	AF68723	Total Recoverable	Water	6020B	794835
680-237959-13	AF68724	Total Recoverable	Water	6020B	794835
680-237959-14	AF68746	Total Recoverable	Water	6020B	794835
680-237959-15	AF68726	Total Recoverable	Water	6020B	794835
680-237959-16	AF68727	Total Recoverable	Water	6020B	794835
680-237959-17	AF68730	Total Recoverable	Water	6020B	794835
680-237959-18	AF68729	Total Recoverable	Water	6020B	794835
680-237959-19	AF68728	Total Recoverable	Water	6020B	794835
MB 680-794835/1-A	Method Blank	Total Recoverable	Water	6020B	794835
LCS 680-794835/2-A	Lab Control Sample	Total Recoverable	Water	6020B	794835
680-237959-2 MS	AF68732	Total Recoverable	Water	6020B	794835
680-237959-2 MSD	AF68732	Total Recoverable	Water	6020B	794835

### Analysis Batch: 795156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-15	AF68726	Total Recoverable	Water	6010D	794834
680-237959-16	AF68727	Total Recoverable	Water	6010D	794834
680-237959-19	AF68728	Total Recoverable	Water	6010D	794834

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68738**

**Lab Sample ID: 680-237959-1**

Date Collected: 07/12/23 12:28

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:28
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:15

**Client Sample ID: AF68732**

**Lab Sample ID: 680-237959-2**

Date Collected: 07/12/23 14:32

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:21
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:02

**Client Sample ID: AF68740**

**Lab Sample ID: 680-237959-3**

Date Collected: 07/12/23 11:01

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:30
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:19

**Client Sample ID: AF68743**

**Lab Sample ID: 680-237959-4**

Date Collected: 07/12/23 13:23

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:33
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:23

**Client Sample ID: AF68744**

**Lab Sample ID: 680-237959-5**

Date Collected: 07/12/23 13:28

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:35
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:27

## Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-8**

Date Collected: 07/18/23 11:49

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:47
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:47

**Client Sample ID: AF68742**

**Lab Sample ID: 680-237959-9**

Date Collected: 07/18/23 14:53

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:49
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:51

**Client Sample ID: AF68747**

**Lab Sample ID: 680-237959-10**

Date Collected: 07/17/23 10:08

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:51
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:55

**Client Sample ID: AF68731**

**Lab Sample ID: 680-237959-11**

Date Collected: 07/17/23 11:15

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:54
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:59

**Client Sample ID: AF68723**

**Lab Sample ID: 680-237959-12**

Date Collected: 07/17/23 13:00

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:56
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:03

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68724**

**Lab Sample ID: 680-237959-13**

Date Collected: 07/17/23 13:05

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:58
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:07

**Client Sample ID: AF68746**

**Lab Sample ID: 680-237959-14**

Date Collected: 07/17/23 14:24

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:01
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:11

**Client Sample ID: AF68726**

**Lab Sample ID: 680-237959-15**

Date Collected: 07/13/23 14:16

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:03
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		10	795156	BJB	EET SAV	08/25/23 09:25
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:15

**Client Sample ID: AF68727**

**Lab Sample ID: 680-237959-16**

Date Collected: 07/13/23 14:21

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:05
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		10	795156	BJB	EET SAV	08/25/23 09:27
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:19

**Client Sample ID: AF68730**

**Lab Sample ID: 680-237959-17**

Date Collected: 07/13/23 10:01

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:12

Eurofins Savannah

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

**Client Sample ID: AF68730**

**Lab Sample ID: 680-237959-17**

Date Collected: 07/13/23 10:01

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:31

**Client Sample ID: AF68729**

**Lab Sample ID: 680-237959-18**

Date Collected: 07/13/23 11:24

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:15
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:36

**Client Sample ID: AF68728**

**Lab Sample ID: 680-237959-19**

Date Collected: 07/13/23 13:32

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:17
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		10	795156	BJB	EET SAV	08/25/23 09:30
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:40

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



# Chain of Custody

Customer Email/Report Recipient: lcwillia@santeecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS -SEE BELOW				
AF68726	WAP-14	7/13/23	1416	WJK ML	1	P	G	GW	2	Ca, Se - 6010	X				
AF68727	WAP-14 DUP	↓	1421	↓						ALL OTHERS - 6020					
AF68747	WAP-29	7/17/23	1008							-SEE SHEET FOR RLS.					
AF68731	WAP-15		1115												
AF68723	WAP-12		1300												
AF68724	WAP-12 DUP		1305												
AF68746	WAP-28		1424												
AF68742	WAP-25	7/13/23	1453	↓	↓	↓	↓	↓	↓						

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	8/23/23	0900				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
TEMP (°C):            Initial:             
Correct pH: Yes  No   
Preservative Lot#:             
Date/Time/Init for preservative:           

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input checked="" type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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# Chain of Custody



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

**Analysis Group**

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW
AF68738	WAP-21	7/12/23	1228	WJK ML	1	P	G	GW	2	ca, Se - 6010	X
AF68732	WAP-16	↓	1432	↓	↓	↓	↓	↓	↓	ALL OTHERS 6020	↓
AF68740	WAP-23	↓	1101	↓	↓	↓	↓	↓	↓	-SEE SHEET FOR RLS.	↓
AF68743	WAP-26	↓	1323	↓	↓	↓	↓	↓	↓		↓
AF68744	WAP-26 DUP	↓	1328	↓	↓	↓	↓	↓	↓		↓
AF68730	WAP-14C	7/13/23	1001	↓	↓	↓	↓	↓	↓		↓
AF68729	WAP-14B	↓	1124	↓	↓	↓	↓	↓	↓		↓
AF68728	WAP-14A	↓	1332	↓	↓	↓	↓	↓	↓		↓
AF68725	WAP-13	7/13/23	1149	↓	↓	↓	↓	↓	↓		↓

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	8/23/23	0900				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfides <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TN <input type="checkbox"/> GOFER
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**Table of Reporting Limits for Groundwater Samples-- Metals Only**

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---



## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-237959-2

Login Number: 237959

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

September 21, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 634957

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 634957 GEL Work Order: 634957

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 21, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF75783	Project: SOOP00119
Sample ID: 634957001	Client ID: SOOP001
Matrix: GW	
Collect Date: 23-AUG-23 13:49	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.864	+/-0.711	1.13	3.00	pCi/L			JE1	09/21/23	1011 2494000	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.79	+/-0.825			pCi/L		1	LXB3	09/21/23	1536 2492737	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.923	+/-0.419	0.492	1.00	pCi/L			LXP1	09/20/23	1030 2486922	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			99.1	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 21, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF75784	Project: SOOP00119
Sample ID: 634957002	Client ID: SOOP001
Matrix: GW	
Collect Date: 23-AUG-23 11:09	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.83	+/-0.906	1.21	3.00	pCi/L			JE1	09/21/23	1011 2494000	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.55	+/-1.01			pCi/L		1	LXB3	09/21/23	1536 2492737	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.72	+/-0.436	0.213	1.00	pCi/L			LXP1	09/20/23	1030 2486922	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.4	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 21, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF75785	Project: SOOP00119
Sample ID: 634957003	Client ID: SOOP001
Matrix: GW	
Collect Date: 23-AUG-23 11:14	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.70	+/-0.833	1.16	3.00	pCi/L			JE1	09/21/23	1011	2494000	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.44	+/-1.08			pCi/L		1	LXB3	09/21/23	1536	2492737	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.74	+/-0.684	0.591	1.00	pCi/L			LXP1	09/20/23	1030	2486922	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			95.9	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: September 21, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF75786	Project: SOOP00119
Sample ID: 634957004	Client ID: SOOP001
Matrix: GW	
Collect Date: 23-AUG-23 12:35	
Receive Date: 25-AUG-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.958	+/-0.758	1.18	3.00	pCi/L			JE1	09/21/23	1011 2494000	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.18	+/-0.789			pCi/L		1	LXB3	09/21/23	1536 2492737	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.226	+/-0.221	0.347	1.00	pCi/L			LXP1	09/20/23	1030 2486922	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89.1	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: September 21, 2023

Page 1 of 2

**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Contact: Ms. Jeanette Gilmetti**

**Workorder: 634957**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2494000										
QC1205519879	634957002	DUP									
Radium-228		1.83	U	0.940	pCi/L	64.2		(0% - 100%)	JE1	09/21/23	10:11
	Uncertainty	+/-0.906		+/-0.764							
QC1205519881	LCS										
Radium-228		77.6		69.3	pCi/L		89.3	(75%-125%)		09/21/23	10:10
	Uncertainty			+/-3.77							
QC1205519878	MB										
Radium-228			U	0.0450	pCi/L					09/21/23	10:11
	Uncertainty			+/-0.480							
<b>Rad Ra-226</b>											
Batch	2486922										
QC1205506771	634957001	DUP									
Radium-226		0.923		1.19	pCi/L	24.9		(0% - 100%)	LXP1	09/20/23	11:02
	Uncertainty	+/-0.419		+/-0.525							
QC1205506775	LCS										
Radium-226		27.1		29.1	pCi/L		107	(75%-125%)		09/20/23	11:03
	Uncertainty			+/-1.95							
QC1205506770	MB										
Radium-226			U	0.104	pCi/L					09/20/23	11:02
	Uncertainty			+/-0.264							
QC1205506773	634957001	MS									
Radium-226		135		0.923	pCi/L		113	(75%-125%)		09/20/23	11:02
	Uncertainty	+/-0.419		+/-9.54							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 634957

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 634957**

**Product:** Radium-226+Radium-228 Calculation

**Analytical Method:** Calculation

**Analytical Procedure:** GL-RAD-D-003 REV# 45

**Analytical Batch:** 2492737

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
634957001	AF75783
634957002	AF75784
634957003	AF75785
634957004	AF75786

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified

**Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2494000

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
634957001	AF75783
634957002	AF75784
634957003	AF75785
634957004	AF75786
1205519878	Method Blank (MB)
1205519879	634957002(AF75784) Sample Duplicate (DUP)
1205519881	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Sample Re-prep/Re-analysis**

Samples were reprepared due to low carrier/tracer yield. The re-analysis is being reported.

**Product: Lucas Cell, Ra226, Liquid**

**Analytical Method: EPA 903.1 Modified**

**Analytical Procedure: GL-RAD-A-008 REV# 15**

**Analytical Batch: 2486922**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
634957001	AF75783
634957002	AF75784
634957003	AF75785
634957004	AF75786
1205506770	Method Blank (MB)
1205506771	634957001(AF75783) Sample Duplicate (DUP)
1205506773	634957001(AF75783) Matrix Spike (MS)
1205506775	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Preparation Information**

**Aliquot Reduced**

1205506773 (AF75783MS) Aliquot was reduced due to limited sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



# Chain of Custody

034957

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.001-1 / 36500 Rerun request for any flagged QC: Yes  No

**Analysis Group**

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226/228	TOTAL RAD CALC.	F, Cl, SO4
AF75783	WAP-27	8/23/23	1349	ZDM BB	3	P	G	GW	2/1		2	5	1
84	WAP-28		1109										
85	WAP-28 D		1114										
86	WAP-29		1235										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	36158	8/25/23	0940	<i>[Signature]</i>	GEL	8/25/23	0940
<i>[Signature]</i>	GEL	8/25/23	1545	<i>[Signature]</i>	GEL	8/25/23	1545

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	--

SAMPLE RECEIPT & REVIEW FORM

Client: <u>SDG</u>	SDG/AR/COC/Work Order: <u>634957</u>
Received By: <u>MWH - JTW</u>	Date Received: <u>8-25-23</u>
Carrier and Tracking Number	Circle Applicable: FedEx Express   FedEx Ground   UPS   Field Services <u>Courier</u> Other

Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM/ mR/Hr Classified as: Rad 1   Rad 2   Rad 3
D) Did the client designate samples are hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's   Flammable   Foreign Soil   RCRA   Asbestos   Beryllium   Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC   COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice   Ice Packs   Dry ice   None   Other: _____ *all temperatures are recorded in Celsius   TEMP: <u>2</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: _____ If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers   No times on containers   COC missing info   Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC   Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished   Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials CO Date 8/28/23 Page 1 of 1

**List of current GEL Certifications as of 21 September 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



August 03, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 628441

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 07, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Jessica Ward for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures





# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 628441 GEL Work Order: 628441

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by \_\_\_\_\_



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68739 Project: SOOP00119  
Sample ID: 628441001 Client ID: SOOP001  
Matrix: GW  
Collect Date: 05-JUL-23 10:44  
Receive Date: 07-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		4.57	+/-1.50	1.82	3.00	pCi/L		JE1	07/18/23	0924	2455718	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		4.74	+/-1.53			pCi/L		NXL1	08/02/23	0858	2455717	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.165	+/-0.281	0.523	1.00	pCi/L		LXP1	08/01/23	0944	2455712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.8	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration    SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68735 Project: SOOP00119  
Sample ID: 628441002 Client ID: SOOP001  
Matrix: GW  
Collect Date: 05-JUL-23 09:35  
Receive Date: 07-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.43	+/-1.21	1.39	3.00	pCi/L		JE1	07/18/23	0924	2455718		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.18	+/-1.28			pCi/L		NXL1	08/02/23	0858	2455717		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.746	+/-0.413	0.408	1.00	pCi/L		LXP1	08/01/23	1005	2455712		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.5	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration    SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68756	Project: SOOP00119
Sample ID: 628441003	Client ID: SOOP001
Matrix: GW	
Collect Date: 05-JUL-23 11:39	
Receive Date: 07-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		3.86	+/-1.36	1.70	3.00	pCi/L		JE1	07/18/23	0924	2455718	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		4.33	+/-1.42			pCi/L		NXL1	08/02/23	0858	2455717	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.471	+/-0.397	0.579	1.00	pCi/L		LXP1	08/01/23	1005	2455712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.5	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68758	Project: SOOP00119
Sample ID: 628441004	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-JUL-23 09:47	
Receive Date: 07-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.938	+/-1.42	2.44	3.00	pCi/L		JE1	07/18/23	0924	2455718		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.48	+/-1.46			pCi/L		NXL1	08/02/23	0858	2455717		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.542	+/-0.339	0.302	1.00	pCi/L		LXP1	08/01/23	1005	2455712		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.9	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68759 Project: SOOP00119  
Sample ID: 628441005 Client ID: SOOP001  
Matrix: GW  
Collect Date: 06-JUL-23 09:52  
Receive Date: 07-JUL-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		4.73	+/-1.48	1.61	3.00	pCi/L		JE1	07/18/23	0924	2455718	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		5.19	+/-1.52			pCi/L		NXL1	08/02/23	0858	2455717	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.462	+/-0.347	0.361	1.00	pCi/L		LXP1	08/01/23	1005	2455712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.5	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68736	Project: SOOP00119
Sample ID: 628441006	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-JUL-23 11:21	
Receive Date: 07-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.13	+/-1.65	2.22	3.00	pCi/L		JE1	07/18/23	0924	2455718		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.94	+/-1.71			pCi/L		NXL1	08/02/23	0858	2455717		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.812	+/-0.450	0.518	1.00	pCi/L		LXP1	08/01/23	1005	2455712		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68753	Project: SOOP00119
Sample ID: 628441007	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-JUL-23 13:08	
Receive Date: 07-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.28	+/-0.974	1.50	3.00	pCi/L		JE1	07/18/23	0924	2455718		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.34	+/-1.08			pCi/L		NXL1	08/02/23	0858	2455717		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.05	+/-0.469	0.389	1.00	pCi/L		LXP1	08/01/23	1005	2455712		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.4	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68754	Project: SOOP00119
Sample ID: 628441008	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-JUL-23 13:13	
Receive Date: 07-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.81	+/-1.24	1.67	3.00	pCi/L		JE1	07/18/23	0924	2455718		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.13	+/-1.28			pCi/L		NXL1	08/02/23	0858	2455717		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.321	+/-0.315	0.466	1.00	pCi/L		LXP1	08/01/23	1005	2455712		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.4	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 3, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68752	Project: SOOP00119
Sample ID: 628441009	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-JUL-23 14:09	
Receive Date: 07-JUL-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.55	+/-1.26	1.46	3.00	pCi/L		JE1	07/18/23	0924	2455718		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.61	+/-1.28			pCi/L		NXL1	08/02/23	0858	2455717		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.0603	+/-0.237	0.525	1.00	pCi/L		LXP1	08/01/23	1005	2455712		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.7	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: August 3, 2023

Page 1 of 2

**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Contact: Ms. Jeanette Gilmetti**

**Workorder: 628441**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch 2455718											
QC1205453175	628441001	DUP									
Radium-228			4.57	2.31	pCi/L	65.8		(0% - 100%)	JE1	07/18/23	09:23
			Uncertainty +/-1.50	+/-1.23							
QC1205453176	LCS										
Radium-228			77.9	79.3	pCi/L		102	(75%-125%)		07/18/23	09:23
			Uncertainty	+/-4.58							
QC1205453174	MB										
Radium-228				U	1.22	pCi/L				07/18/23	11:01
			Uncertainty		+/-1.25						
<b>Rad Ra-226</b>											
Batch 2455712											
QC1205453161	628343001	DUP									
Radium-226			5.77	4.99	pCi/L	14.5		(0%-20%)	LXP1	08/01/23	10:28
			Uncertainty +/-1.15	+/-1.05							
QC1205453163	LCS										
Radium-226			26.3	21.5	pCi/L		81.7	(75%-125%)		08/01/23	10:28
			Uncertainty	+/-1.96							
QC1205453160	MB										
Radium-226				U	0.275	pCi/L				08/01/23	10:28
			Uncertainty		+/-0.333						
QC1205453162	628343001	MS									
Radium-226			131	5.77	158	pCi/L		116 (75%-125%)		08/01/23	10:28
			Uncertainty +/-1.15	+/-13.8							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 628441

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 628441**

**Product: GFPC, Ra228, Liquid**

**Analytical Method: EPA 904.0/SW846 9320 Modified**

**Analytical Procedure: GL-RAD-A-063 REV# 5**

**Analytical Batch: 2455718**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
628441001	AF68739
628441002	AF68735
628441003	AF68756
628441004	AF68758
628441005	AF68759
628441006	AF68736
628441007	AF68753
628441008	AF68754
628441009	AF68752
1205453174	Method Blank (MB)
1205453175	628441001(AF68739) Sample Duplicate (DUP)
1205453176	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Recounts**

Sample 1205453174 (MB) was recounted due to a suspected blank false positive. The recount is reported.

**Product: Lucas Cell, Ra226, Liquid**

**Analytical Method: EPA 903.1 Modified**

**Analytical Procedure: GL-RAD-A-008 REV# 15**

**Analytical Batch: 2455712**

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
628441001	AF68739
628441002	AF68735

628441003	AF68756
628441004	AF68758
628441005	AF68759
628441006	AF68736
628441007	AF68753
628441008	AF68754
628441009	AF68752
1205453160	Method Blank (MB)
1205453161	628343001(NonSDG) Sample Duplicate (DUP)
1205453162	628343001(NonSDG) Matrix Spike (MS)
1205453163	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Miscellaneous Information**

**Additional Comments**

The matrix spike, 1205453162 (Non SDG 628343001MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



# Chain of Custody

028441

Customer Email/Report Recipient: LCWILLIA @santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Rad 226/228	TOTAL RAD CATE
AF68739	WAP-22	7/5/23	1044	WJK ML	2	P	G	GW	2		X	X
AF68735	WAP-18		0935									
AF68756	WLF-A2-1		1139									
AF68758	WLF-A2-6	7/6/23	0947									
AF68759	WLF-A2-6 DUP		0952									
AF68736	WAP-19		1121									
AF68753	WLF-A1-4	7/6/23	1308									
AF68754	WLF-A1-4 DUP		1313									
AF68752	WLF-A1-3		1409									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	7/7/23	1019	<i>WJK</i>	GEL	7/7/23	1019
<i>WJK</i>	GEL	7/7/23	1540	<i>SJB</i>	GEL	7/7/23	1810

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#:  
 Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOVER
--	--	--	--	---	--	---

JK

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP  
Received By: SNS  
Carrier and Tracking Number

SDG/AR/COC/Work Order: 1028441  
Date Received: 7/17/23  
Circle Applicable: FedEx Express FedEx Ground UPS Field Services Counters Other  
cooler 1-3c cooler 2-12c

Suspected Hazard Information  
A) Shipped as a DOT Hazardous?  
B) Did the client designate the samples are to be received as radioactive?  
C) Did the RSO classify the samples as radioactive?  
D) Did the client designate samples are hazardous?  
E) Did the RSO identify possible hazards?

Yes No  
\*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.  
Hazard Class Shipped: UN#: \_\_\_\_\_  
If UN2910, Is the Radioactive Shipment Survey Compliant? Yes \_\_\_ No \_\_\_  
COC notation or radioactive stickers on containers equal client designation.  
Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr  
Classified as: Rad 1 Rad 2 Rad 3  
COC notation or hazard labels on containers equal client designation.  
If D or E is yes, select Hazards below:  
PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: \_\_\_\_\_

Sample Receipt Criteria  
1 Shipping containers received intact and sealed?  
2 Chain of custody documents included with shipment?  
3 Samples requiring cold preservation within (0 ≤ deg. C)?\*  
4 Daily check performed and passed on IR temperature gun?  
5 Sample containers intact and sealed?  
6 Samples requiring chemical preservation at proper pH?  
7 Do any samples require Volatile Analysis?  
8 Samples received within holding time?  
9 Sample ID's on COC match ID's on bottles?  
10 Date & time on COC match date & time on bottles?  
11 Number of containers received match number indicated on COC?  
12 Are sample containers identifiable as GEL provided by use of GEL labels?  
13 COC form is properly signed in relinquished/received sections?

Yes NA No  
Comments/Qualifiers (Required for Non-Conforming Items)  
Circle Applicable: Seals broken Damaged container Leaking container Other (describe)  
Circle Applicable: Client contacted and provided COC COC created upon receipt  
Preservation Method: Wet Ice Ice Packs Dry ice None Other: TEMP: See above  
\*all temperatures are recorded in Celsius  
Temperature Device Serial #: IR1-23  
Secondary Temperature Device Serial # (If Applicable):  
Circle Applicable: Seals broken Damaged container Leaking container Other (describe)  
Sample ID's and Containers Affected:  
If Preservation added, Lot#: \_\_\_\_\_  
If Yes, are Encores or Soil Kits present for solids? Yes \_\_\_ No \_\_\_ NA \_\_\_ (If yes, take to VOA Freezer)  
Do liquid VOA vials contain acid preservation? Yes \_\_\_ No \_\_\_ NA \_\_\_ (If unknown, select No)  
Are liquid VOA vials free of headspace? Yes \_\_\_ No \_\_\_ NA \_\_\_  
Sample ID's and containers affected:  
ID's and tests affected:  
ID's and containers affected:  
Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)  
Circle Applicable: No container count on COC Other (describe)  
Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):



**List of current GEL Certifications as of 03 August 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

October 26, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 639285

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 29, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Jordan Melton for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 639285 GEL Work Order: 639285

**The Qualifiers in this report are defined as follows:**

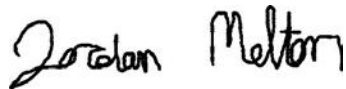
- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 26, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF79064	Project: SOOP00119
Sample ID: 639285001	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-SEP-23 12:13	
Receive Date: 29-SEP-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	0.698	+/-0.999	1.71	3.00	pCi/L		JE1	10/10/23	1123	2502094	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.46	+/-1.08			pCi/L		NXL1	10/26/23	1206	2511601	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.763	+/-0.411	0.390	1.00	pCi/L		LXP1	10/26/23	0846	2502095	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 26, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF79065	Project: SOOP00119
Sample ID: 639285002	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-SEP-23 10:49	
Receive Date: 29-SEP-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.944	+/-1.32	2.25	3.00	pCi/L		JE1	10/10/23	1123	2502094		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.29	+/-1.62			pCi/L		NXL1	10/26/23	1206	2511601		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.34	+/-0.934	0.605	1.00	pCi/L		LXP1	10/26/23	0846	2502095		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.6	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 26, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF79066 Project: SOOP00119  
Sample ID: 639285003 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-SEP-23 10:54  
Receive Date: 29-SEP-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.02	+/-0.710	1.06	3.00	pCi/L		JE1	10/10/23	1123	2502094		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.44	+/-0.887			pCi/L		NXL1	10/26/23	1206	2511601		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.42	+/-0.531	0.515	1.00	pCi/L		LXP1	10/26/23	0846	2502095		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89.6	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 26, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF79067 Project: SOOP00119  
Sample ID: 639285004 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-SEP-23 13:19  
Receive Date: 29-SEP-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		1.70	+/-0.886	1.25	3.00	pCi/L		JE1	10/10/23	1123	2502094	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.33	+/-1.03			pCi/L		NXL1	10/26/23	1206	2511601	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.63	+/-0.519	0.313	1.00	pCi/L		LXP1	10/26/23	0846	2502095	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.3	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: October 26, 2023

Page 1 of 2

**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Contact: Ms. Jeanette Gilmetti**

**Workorder: 639285**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2502094										
QC1205534749	639285001	DUP									
Radium-228	U	0.698	U	0.830	pCi/L	N/A		N/A	JE1	10/10/23	11:22
	Uncertainty	+/-0.999		+/-0.775							
QC1205534750	LCS										
Radium-228	77.3			77.2	pCi/L		99.8	(75%-125%)		10/10/23	11:23
	Uncertainty			+/-4.08							
QC1205534748	MB										
Radium-228			U	0.205	pCi/L					10/10/23	11:22
	Uncertainty			+/-0.562							
<b>Rad Ra-226</b>											
Batch	2502095										
QC1205534752	639285001	DUP									
Radium-226		0.763		0.770	pCi/L	0.836		(0% - 100%)	LXP1	10/26/23	08:46
	Uncertainty	+/-0.411		+/-0.440							
QC1205534754	LCS										
Radium-226	27.1			32.7	pCi/L		121	(75%-125%)		10/26/23	09:18
	Uncertainty			+/-2.41							
QC1205534751	MB										
Radium-226			U	0.390	pCi/L					10/26/23	08:46
	Uncertainty			+/-0.449							
QC1205534753	639285001	MS									
Radium-226	109	0.763		110	pCi/L		99.6	(75%-125%)		10/26/23	09:18
	Uncertainty	+/-0.411		+/-8.53							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported



# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 639285

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 639285**

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified

**Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2502094

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
639285001	AF79064
639285002	AF79065
639285003	AF79066
639285004	AF79067
1205534748	Method Blank (MB)
1205534749	639285001(AF79064) Sample Duplicate (DUP)
1205534750	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product:** Lucas Cell, Ra226, Liquid

**Analytical Method:** EPA 903.1 Modified

**Analytical Procedure:** GL-RAD-A-008 REV# 15

**Analytical Batch:** 2502095

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
639285001	AF79064
639285002	AF79065
639285003	AF79066
639285004	AF79067
1205534751	Method Blank (MB)
1205534752	639285001(AF79064) Sample Duplicate (DUP)
1205534753	639285001(AF79064) Matrix Spike (MS)
1205534754	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Miscellaneous Information****Additional Comments**

The matrix spike, 1205534753 (AF79064MS), aliquot was reduced to conserve sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

# Chain of Custody

639,284  
639,285



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125915 / JMD2.09.G-1.1 / 36500 Rerun request for any flagged QC  Yes  No

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/ Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	Analysis Group		
											RAD 226/228	TOTAL RAD CALC	F, Cl, SO4
AF79064	WAP-27	9/26/23	1213	EDM BSB	3	P	G	GW	2/1		2	X	1
65	WAP-28	9/27/23	1049										
66	WAP-28 DUP		1054										
67	WAP-29		1319										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	36851	9/29/23	0930	<i>[Signature]</i>	GEL	9/29/23	0930
<i>[Signature]</i>	GEL	9/29/23	1600	<i>[Signature]</i>	GEL	9/29/23	1600

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	---

**SAMPLE RECEIPT & REVIEW FORM**

Client: SCOP SDG/AR/COC/Work Order: U39284 / 639285  
 Received By: QG Date Received: 9/29/23  
 Carrier and Tracking Number: n/a  
 FedEx Express FedEx Ground UPS Field Services Courier Other

JR

Suspected Hazard Information

Yes  No \*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous?  Hazard Class Shipped: \_\_\_\_\_ UN#: \_\_\_\_\_  
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes \_\_\_ No \_\_\_

B) Did the client designate the samples are to be received as radioactive?  COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive?  Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): 0 CPM/mR/hr  
 Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous?  COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards?  If D or E is yes, select Hazards below.  
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>3°C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Preservation added, Lot#: _____ If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JW Date 9/30/23 Page 1 of 1

**List of current GEL Certifications as of 26 October 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-04
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 7/14/2023 2:17:57 PM

## JOB DESCRIPTION

125915/JM02.08.G01.1/36500

## JOB NUMBER

680-237587-1

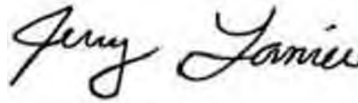
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281



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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

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**Job ID: 680-237587-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative**  
**680-237587-1**

**Receipt**

The samples were received on 7/12/2023 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.4°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237587-1	AF68758	GW	07/06/23 09:47	07/12/23 10:03
680-237587-2	AF68759	GW	07/06/23 09:52	07/12/23 10:03
680-237587-3	AF68736	GW	07/06/23 11:21	07/12/23 10:03
680-237587-4	AF68753	GW	07/06/23 13:08	07/12/23 10:03
680-237587-5	AF68754	GW	07/06/23 13:13	07/12/23 10:03
680-237587-6	AF68752	GW	07/06/23 14:09	07/12/23 10:03
680-237587-7	AF68739	GW	07/05/23 10:44	07/12/23 10:03
680-237587-8	AF68755	GW	07/05/23 09:35	07/12/23 10:03
680-237587-9	AF68756	GW	07/05/23 11:39	07/12/23 10:03

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68758**

**Lab Sample ID: 680-237587-1**

No Detections.

**Client Sample ID: AF68759**

**Lab Sample ID: 680-237587-2**

No Detections.

**Client Sample ID: AF68736**

**Lab Sample ID: 680-237587-3**

No Detections.

**Client Sample ID: AF68753**

**Lab Sample ID: 680-237587-4**

No Detections.

**Client Sample ID: AF68754**

**Lab Sample ID: 680-237587-5**

No Detections.

**Client Sample ID: AF68752**

**Lab Sample ID: 680-237587-6**

No Detections.

**Client Sample ID: AF68739**

**Lab Sample ID: 680-237587-7**

No Detections.

**Client Sample ID: AF68755**

**Lab Sample ID: 680-237587-8**

No Detections.

**Client Sample ID: AF68756**

**Lab Sample ID: 680-237587-9**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68758**

**Lab Sample ID: 680-237587-1**

Date Collected: 07/06/23 09:47

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:32	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68759**

**Lab Sample ID: 680-237587-2**

Date Collected: 07/06/23 09:52

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:37	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68736**

**Lab Sample ID: 680-237587-3**

Date Collected: 07/06/23 11:21

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:38	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68753**

**Lab Sample ID: 680-237587-4**

Date Collected: 07/06/23 13:08

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:40	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68754**

**Lab Sample ID: 680-237587-5**

Date Collected: 07/06/23 13:13

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:41	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68752**

**Lab Sample ID: 680-237587-6**

Date Collected: 07/06/23 14:09

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:43	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68739**

**Lab Sample ID: 680-237587-7**

Date Collected: 07/05/23 10:44

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:48	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68755**

**Lab Sample ID: 680-237587-8**

Date Collected: 07/05/23 09:35

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:49	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68756**

**Lab Sample ID: 680-237587-9**

Date Collected: 07/05/23 11:39

Matrix: GW

Date Received: 07/12/23 10:03

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:51	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-788246/1-A**  
**Matrix: Water**  
**Analysis Batch: 788395**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 788246**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:29	1

**Lab Sample ID: LCS 680-788246/2-A**  
**Matrix: Water**  
**Analysis Batch: 788395**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 788246**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.658		ug/L		106	80 - 120

**Lab Sample ID: 680-237587-1 MS**  
**Matrix: GW**  
**Analysis Batch: 788395**

**Client Sample ID: AF68758**  
**Prep Type: Total/NA**  
**Prep Batch: 788246**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	1.036		ug/L		104	80 - 120

**Lab Sample ID: 680-237587-1 MSD**  
**Matrix: GW**  
**Analysis Batch: 788395**

**Client Sample ID: AF68758**  
**Prep Type: Total/NA**  
**Prep Batch: 788246**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	1.022		ug/L		102	80 - 120	1	20



# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

## Metals

### Prep Batch: 788246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237587-1	AF68758	Total/NA	GW	7470A	
680-237587-2	AF68759	Total/NA	GW	7470A	
680-237587-3	AF68736	Total/NA	GW	7470A	
680-237587-4	AF68753	Total/NA	GW	7470A	
680-237587-5	AF68754	Total/NA	GW	7470A	
680-237587-6	AF68752	Total/NA	GW	7470A	
680-237587-7	AF68739	Total/NA	GW	7470A	
680-237587-8	AF68755	Total/NA	GW	7470A	
680-237587-9	AF68756	Total/NA	GW	7470A	
MB 680-788246/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-788246/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237587-1 MS	AF68758	Total/NA	GW	7470A	
680-237587-1 MSD	AF68758	Total/NA	GW	7470A	

### Analysis Batch: 788395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237587-1	AF68758	Total/NA	GW	7470A	788246
680-237587-2	AF68759	Total/NA	GW	7470A	788246
680-237587-3	AF68736	Total/NA	GW	7470A	788246
680-237587-4	AF68753	Total/NA	GW	7470A	788246
680-237587-5	AF68754	Total/NA	GW	7470A	788246
680-237587-6	AF68752	Total/NA	GW	7470A	788246
680-237587-7	AF68739	Total/NA	GW	7470A	788246
680-237587-8	AF68755	Total/NA	GW	7470A	788246
680-237587-9	AF68756	Total/NA	GW	7470A	788246
MB 680-788246/1-A	Method Blank	Total/NA	Water	7470A	788246
LCS 680-788246/2-A	Lab Control Sample	Total/NA	Water	7470A	788246
680-237587-1 MS	AF68758	Total/NA	GW	7470A	788246
680-237587-1 MSD	AF68758	Total/NA	GW	7470A	788246

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68758**

**Lab Sample ID: 680-237587-1**

Date Collected: 07/06/23 09:47

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:32

**Client Sample ID: AF68759**

**Lab Sample ID: 680-237587-2**

Date Collected: 07/06/23 09:52

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:37

**Client Sample ID: AF68736**

**Lab Sample ID: 680-237587-3**

Date Collected: 07/06/23 11:21

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:38

**Client Sample ID: AF68753**

**Lab Sample ID: 680-237587-4**

Date Collected: 07/06/23 13:08

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:40

**Client Sample ID: AF68754**

**Lab Sample ID: 680-237587-5**

Date Collected: 07/06/23 13:13

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:41

**Client Sample ID: AF68752**

**Lab Sample ID: 680-237587-6**

Date Collected: 07/06/23 14:09

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:43

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68739**

**Lab Sample ID: 680-237587-7**

Date Collected: 07/05/23 10:44

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:48

**Client Sample ID: AF68755**

**Lab Sample ID: 680-237587-8**

Date Collected: 07/05/23 09:35

Matrix: GW

Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:49

**Client Sample ID: AF68756**

**Lab Sample ID: 680-237587-9**

Date Collected: 07/05/23 11:39

Matrix: GW

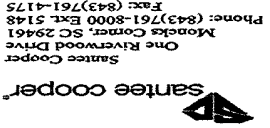
Date Received: 07/12/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:51

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858





Customer Email/Report Recipient: lwillia@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JMO2.08.601.1 / 36500

Re-run request for any flagged QC: (Yes) No

Labwork ID #	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Method #	Reporting limit	Misc. sample info	Any other notes
AF68758	WLF-A2-6	7/6/23	0947	WJK	1	G	G	Gw	2				
59	WLF-A2-6 DUP		0952										
36	WAF-19		1121										
AF68753	WLF-A1-4		1308										
54	WLF-A1-4 DUP		1313										
52	WLF-A1-3		1409										
DAF68739	WAF-22	7/5/23	1044										
AF68735	WAF-18		0935										
56	WLF-A2-1		1139										

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Received by:	Employee #	Date	Time	Received by:	Employee #	Date	Time	Received by:	Employee #	Date	Time	Received by:	Employee #	Date	Time
Shannon	55514	7/11/23	1200												

Sample Receiving (Internal Use Only) TEMP (C): Initial: Correct pH: Yes No Preservative Lot#: Date/Time/Init for preservative:

<input type="checkbox"/> Cr <input type="checkbox"/> Co <input type="checkbox"/> Cd <input type="checkbox"/> Ca <input type="checkbox"/> Be <input type="checkbox"/> Ba <input type="checkbox"/> B <input type="checkbox"/> As <input type="checkbox"/> Al <input type="checkbox"/> Ag	<input type="checkbox"/> Pb <input type="checkbox"/> Ni <input type="checkbox"/> Na <input type="checkbox"/> Mo <input type="checkbox"/> Mn <input type="checkbox"/> Mg <input type="checkbox"/> Li <input type="checkbox"/> K <input type="checkbox"/> Fe <input type="checkbox"/> Cu	<input type="checkbox"/> Cr-VI <input type="checkbox"/> Hg <input type="checkbox"/> Zn <input type="checkbox"/> V <input type="checkbox"/> Ti <input type="checkbox"/> Ti <input type="checkbox"/> Sr <input type="checkbox"/> Sn <input type="checkbox"/> Se <input type="checkbox"/> Sb	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TP04 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Oil & Grease <input type="checkbox"/> VOC <input type="checkbox"/> THM/HAA <input type="checkbox"/> Naphthalene <input type="checkbox"/> BTEX	<b>MISC.</b> <input type="checkbox"/> PCB <input type="checkbox"/> Rad 228 <input type="checkbox"/> Rad 226 <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Dissolved As <input type="checkbox"/> pH <input type="checkbox"/> Total Coliform <input type="checkbox"/> E. Coli	<input type="checkbox"/> Wallboard <input type="checkbox"/> Gypsum (all below) <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chloride <input type="checkbox"/> Particle	<input type="checkbox"/> Sulfur <input type="checkbox"/> HGI <input type="checkbox"/> XRF Scan	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter	<b>NPDES</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral <input type="checkbox"/> Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Inherent Viscosity <input type="checkbox"/> FT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil <input type="checkbox"/> Hg <input type="checkbox"/> TX <input type="checkbox"/> COTER
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680-237587 Chain of Custody

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, LW-limestone, OL-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code: 1=<4°C, 2=HNO3, 3=H2SO4, 4=HCl, 5=Na2S2O3, 6=Other (Specify)

7/14/2023

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-237587-1

**Login Number: 237587**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Padayao, Abigail**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

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\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 10/6/2023 1:08:33 PM

## JOB DESCRIPTION

125915/JM02.09.G01.1/36500

## JOB NUMBER

680-241003-1

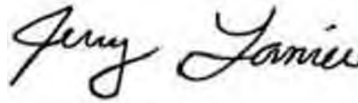
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



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Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281



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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

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## Job ID: 680-241003-1

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Laboratory: Eurofins Savannah

### Narrative

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#### Job Narrative 680-241003-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 9/29/2023 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.3°C

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-241003-1	AF79064	GW	09/26/23 12:13	09/29/23 10:22
680-241003-2	AF79065	GW	09/27/23 10:49	09/29/23 10:22
680-241003-3	AF79066	GW	09/27/23 10:54	09/29/23 10:22
680-241003-4	AF79067	GW	09/27/23 13:19	09/29/23 10:22

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

**Client Sample ID: AF79064**

**Lab Sample ID: 680-241003-1**

No Detections.

**Client Sample ID: AF79065**

**Lab Sample ID: 680-241003-2**

No Detections.

**Client Sample ID: AF79066**

**Lab Sample ID: 680-241003-3**

No Detections.

**Client Sample ID: AF79067**

**Lab Sample ID: 680-241003-4**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

**Client Sample ID: AF79064**

**Lab Sample ID: 680-241003-1**

Date Collected: 09/26/23 12:13

Matrix: GW

Date Received: 09/29/23 10:22

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		10/03/23 12:11	10/03/23 16:36	1

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

**Client Sample ID: AF79065**

**Lab Sample ID: 680-241003-2**

Date Collected: 09/27/23 10:49

Matrix: GW

Date Received: 09/29/23 10:22

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		10/03/23 12:11	10/03/23 16:38	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

**Client Sample ID: AF79066**

**Lab Sample ID: 680-241003-3**

Date Collected: 09/27/23 10:54

Matrix: GW

Date Received: 09/29/23 10:22

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		10/03/23 12:11	10/03/23 16:40	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

**Client Sample ID: AF79067**

**Lab Sample ID: 680-241003-4**

Date Collected: 09/27/23 13:19

Matrix: GW

Date Received: 09/29/23 10:22

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		10/03/23 12:11	10/03/23 16:43	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-800807/1-A

Matrix: Water

Analysis Batch: 800852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 800807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		10/03/23 12:11	10/03/23 16:32	1

Lab Sample ID: LCS 680-800807/2-A

Matrix: Water

Analysis Batch: 800852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 800807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.613		ug/L		105	80 - 120



# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

## Metals

### Prep Batch: 800807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241003-1	AF79064	Total/NA	GW	7470A	
680-241003-2	AF79065	Total/NA	GW	7470A	
680-241003-3	AF79066	Total/NA	GW	7470A	
680-241003-4	AF79067	Total/NA	GW	7470A	
MB 680-800807/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-800807/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 800852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241003-1	AF79064	Total/NA	GW	7470A	800807
680-241003-2	AF79065	Total/NA	GW	7470A	800807
680-241003-3	AF79066	Total/NA	GW	7470A	800807
680-241003-4	AF79067	Total/NA	GW	7470A	800807
MB 680-800807/1-A	Method Blank	Total/NA	Water	7470A	800807
LCS 680-800807/2-A	Lab Control Sample	Total/NA	Water	7470A	800807

# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

**Client Sample ID: AF79064**

**Lab Sample ID: 680-241003-1**

Date Collected: 09/26/23 12:13

Matrix: GW

Date Received: 09/29/23 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:36

**Client Sample ID: AF79065**

**Lab Sample ID: 680-241003-2**

Date Collected: 09/27/23 10:49

Matrix: GW

Date Received: 09/29/23 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:38

**Client Sample ID: AF79066**

**Lab Sample ID: 680-241003-3**

Date Collected: 09/27/23 10:54

Matrix: GW

Date Received: 09/29/23 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:40

**Client Sample ID: AF79067**

**Lab Sample ID: 680-241003-4**

Date Collected: 09/27/23 13:19

Matrix: GW

Date Received: 09/29/23 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:43

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



# Chain of Custody

Customer Email/Report Recipient: lcwillia@santecooper.com Date Results Needed by:      Project/Task/Unit #: 125915 / JM02.09-681.1 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass/ G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments				
AF79064	WAP-27	9/26/23	1213	ZDM BSB	1	P	G	GW	2	7470 RL < 0.2 ug/L	X			
AF79065	WAP-28	9/27/23	1049								X			
AF79066	WAP-28 DUP		1054								X			
AF79067	WAP-29		1319								X			



Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	9/28/23	1200				
						9/29/23	1022

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 21.8/21.3  
 Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input checked="" type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input checked="" type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Leaves</b> <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> BT <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
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Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-241003-1

**Login Number: 241003**

**List Number: 1**

**Creator: Johnson, Corey M**

**List Source: Eurofins Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.





July 27, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 627961

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 30, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Sample containers were not received, client contacted, client stated these were added to COC in error. 627961005(AF68715), 627961006(AF68722). All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 627961 GEL Work Order: 627961

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68719	Project: SOOP00119
Sample ID: 627961001	Client ID: SOOP001
Matrix: GW	
Collect Date: 29-JUN-23 10:48	
Receive Date: 30-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		3.47	+/-1.34	1.77	3.00	pCi/L		JE1	07/17/23	1510	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		5.06	+/-1.49			pCi/L		NXL1	07/24/23	1519	2462863	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.59	+/-0.659	0.553	1.00	pCi/L		LXP1	07/24/23	0755	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68720 Project: SOOP00119  
Sample ID: 627961002 Client ID: SOOP001  
Matrix: GW  
Collect Date: 29-JUN-23 11:40  
Receive Date: 30-JUN-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.79	+/-1.53	2.25	3.00	pCi/L		JE1	07/19/23	1027	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		5.75	+/-1.77			pCi/L		NXL1	07/24/23	1519	2462863	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.96	+/-0.886	0.398	1.00	pCi/L		LXP1	07/24/23	0755	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.2	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68721 Project: SOOP00119  
Sample ID: 627961003 Client ID: SOOP001  
Matrix: GW  
Collect Date: 29-JUN-23 11:45  
Receive Date: 30-JUN-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		2.71	+/-1.47	2.21	3.00	pCi/L		JE1	07/17/23	1511	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		8.64	+/-1.94			pCi/L		NXL1	07/24/23	1519	2463279	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		5.93	+/-1.26	0.485	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer		GFPC, Ra228, Liquid "As Received"			71.3	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68713	Project: SOOP00119
Sample ID: 627961004	Client ID: SOOP001
Matrix: GW	
Collect Date: 29-JUN-23 13:51	
Receive Date: 30-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		3.09	+/-1.46	2.09	3.00	pCi/L		JE1	07/17/23	1511	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		4.34	+/-1.58			pCi/L		NXL1	07/24/23	1519	2463279	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.25	+/-0.604	0.599	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.9	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68714	Project: SOOP00119
Sample ID: 627961007	Client ID: SOOP001
Matrix: GW	
Collect Date: 28-JUN-23 14:09	
Receive Date: 30-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	1.04	+/-1.00	1.64	3.00	pCi/L		JE1	07/17/23	1511	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		2.57	+/-1.22			pCi/L		NXL1	07/24/23	1519	2463279	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.53	+/-0.701	0.635	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.1	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68712 Project: SOOP00119  
Sample ID: 627961008 Client ID: SOOP001  
Matrix: GW  
Collect Date: 28-JUN-23 15:20  
Receive Date: 30-JUN-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	1.17	+/-1.12	1.85	3.00	pCi/L		JE1	07/17/23	1511	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		3.01	+/-1.31			pCi/L		NXL1	07/24/23	1519	2462863	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.83	+/-0.674	0.477	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.5	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68748	Project: SOOP00119
Sample ID: 627961009	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-JUN-23 10:15	
Receive Date: 30-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		3.93	+/-1.52	1.92	3.00	pCi/L		JE1	07/19/23	1027	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		4.32	+/-1.56			pCi/L		NXL1	07/24/23	1519	2462863	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.388	+/-0.369	0.553	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.2	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF68711 Project: SOOP00119  
Sample ID: 627961010 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-JUN-23 11:26  
Receive Date: 30-JUN-23  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	-0.145	+/-1.35	2.52	3.00	pCi/L		JE1	07/17/23	1511	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.85	+/-1.54			pCi/L		NXL1	07/24/23	1519	2462863	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.85	+/-0.737	0.659	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.3	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration    SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 27, 2023

Company : Santee Cooper  
 Address : P.O. Box 2946101  
 OCO3  
 Moncks Corner, South Carolina 29461  
 Contact: Ms. Jeanette Gilmetti  
 Project: ABS Lab Analytical

Client Sample ID: AF68717	Project: SOOP00119
Sample ID: 627961011	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-JUN-23 13:57	
Receive Date: 30-JUN-23	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228	U	2.51	+/-1.64	2.55	3.00	pCi/L		JE1	07/17/23	1511	2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		2.96	+/-1.69			pCi/L		NXL1	07/24/23	1519	2462863	2
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.446	+/-0.395	0.554	1.00	pCi/L		LXP1	07/24/23	0844	2454082	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.3	(15%-125%)

**Notes:**

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor                   | Lc/LC: Critical Level          |
| DL: Detection Limit                   | PF: Prep Factor                |
| MDA: Minimum Detectable Activity      | RL: Reporting Limit            |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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## QC Summary

Report Date: July 27, 2023

Page 1 of 2

**Santee Cooper**  
**P.O. Box 2946101**  
**OCO3**  
**Moncks Corner, South Carolina**  
**Contact: Ms. Jeanette Gilmetti**

**Workorder: 627961**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	2454081										
QC1205450523	627961001	DUP									
Radium-228		3.47	U	1.53	pCi/L	77.9		(0% - 100%)	JE1	07/17/23	15:10
	Uncertainty	+/-1.34		+/-1.36							
QC1205450524	LCS										
Radium-228		78.2		67.7	pCi/L		86.6	(75%-125%)		07/17/23	15:10
	Uncertainty			+/-4.40							
QC1205450522	MB										
Radium-228			U	1.44	pCi/L					07/17/23	15:10
	Uncertainty			+/-1.05							
<b>Rad Ra-226</b>											
Batch	2454082										
QC1205450526	627961001	DUP									
Radium-226		1.59		1.22	pCi/L	26.5		(0% - 100%)	LXP1	07/24/23	10:06
	Uncertainty	+/-0.659		+/-0.539							
QC1205450528	LCS										
Radium-226		52.9		55.4	pCi/L		105	(75%-125%)		07/24/23	10:06
	Uncertainty			+/-3.58							
QC1205450525	MB										
Radium-226			U	0.282	pCi/L					07/24/23	09:22
	Uncertainty			+/-0.403							
QC1205450527	627961001	MS									
Radium-226		132		136	pCi/L		101	(75%-125%)		07/24/23	10:06
	Uncertainty	+/-0.659		+/-13.5							

- Notes:**
- Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
  - The Qualifiers in this report are defined as follows:
    - U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
    - J Value is estimated
    - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
    - H Analytical holding time was exceeded
    - < Result is less than value reported

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## QC Summary

Workorder: 627961

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>											
UI											
BD											
h											
R											
^											
N/A											
ND											
M											
NJ											
FA											
UJ											
Q											
K											
UL											
L											
NI											
Y											
**											
M											
J											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 627961**

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified

**Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2454081

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
627961001	AF68719
627961002	AF68720
627961003	AF68721
627961004	AF68713
627961007	AF68714
627961008	AF68712
627961009	AF68748
627961010	AF68711
627961011	AF68717
1205450522	Method Blank (MB)
1205450523	627961001(AF68719) Sample Duplicate (DUP)
1205450524	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Recounts**

Samples 627961002 (AF68720) and 627961009 (AF68748) were re-eluted and recounted to verify sample results. The recounts are reported.

**Product:** Lucas Cell, Ra226, Liquid

**Analytical Method:** EPA 903.1 Modified

**Analytical Procedure:** GL-RAD-A-008 REV# 15

**Analytical Batch:** 2454082

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
627961001	AF68719

627961002	AF68720
627961003	AF68721
627961004	AF68713
627961007	AF68714
627961008	AF68712
627961009	AF68748
627961010	AF68711
627961011	AF68717
1205450525	Method Blank (MB)
1205450526	627961001(AF68719) Sample Duplicate (DUP)
1205450527	627961001(AF68719) Matrix Spike (MS)
1205450528	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Preparation Information**

**Aliquot Reduced**

1205450527 (AF68719MS) Aliquot was reduced due to limited sample volume.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

627961



# Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:      /      /      Project/Task/Unit #: 125915 / JM02.08.G01.3 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC
AF68719	WAP-9	6/29/23	1048	WJK/ML	2	P	G	GW	2		1	1	X
AF68720	WAP-10		1140										
AF68721	WAP-10 DUP		1145										
AF68713	WAP-3		1351										
AF68715	WAP-5		0947										
AF68722	WAP-11		1453										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	35594	6/30/23	1035	<i>[Signature]</i>	GEL	6/30/23	1035
<i>[Signature]</i>	GEL	6/30/23	1235	<i>[Signature]</i>	GEL	6/30/23	1235

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfides <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	---





# Chain of Custody

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.08.G01.3 / 36500 Rerun request for any flagged QC  Yes  No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC.
AF68714	WAP-4	6/28/23	1409	WJK ML	2	P	G	GW	2				X
AF68712	WAP-2	1	1520										
AF68748	WBW-1	6/27/23	1015										
AF68711	WAP-1	1	1126										
AF68717	WAP-7	1	1357										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJ Brown</i>	35594	6/30/23	1036	<i>M. An</i>	GEL	6/30/23	1026
<i>M. An</i>	GEL	6/30/23	1235	<i>WJK</i>	GEL	6/30/23	1235

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: \_\_\_\_\_  
 Date/Time/Init for preservative: \_\_\_\_\_

METALS (all)			Nutrients	MISC.	Special	Goal	Field	Other
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> DOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Volatile	<input type="checkbox"/> Ammonia	<input type="checkbox"/> pH	<input type="checkbox"/> Chloride
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Inorganic	<input type="checkbox"/> TOC	<input type="checkbox"/> Turbidity	<input type="checkbox"/> Sulfate
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> DOC	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> Organic	<input type="checkbox"/> TSS	<input type="checkbox"/> Conductivity	<input type="checkbox"/> Nitrate
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> DOC	<input type="checkbox"/> VOC	<input type="checkbox"/> Total	<input type="checkbox"/> TDS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Nitrite
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> DOC	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Coliform	<input type="checkbox"/> TSS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Ammonia
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> DOC	<input type="checkbox"/> E. Coli	<input type="checkbox"/> pH	<input type="checkbox"/> TSS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Nitrate
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> DOC	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> pH	<input type="checkbox"/> TSS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Nitrite
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> DOC	<input type="checkbox"/> Rad 226	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> TSS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Ammonia
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> DOC	<input type="checkbox"/> Rad 228	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> TSS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Nitrate
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> DOC	<input type="checkbox"/> PCB	<input type="checkbox"/> Rad 228	<input type="checkbox"/> TSS	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Ammonia

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>SDG</u>		SDG/AR/COC/Work Order: <u>U27901</u>	
Received By: <u>QG</u>		Date Received: <u>6/30/23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express   FedEx Ground   UPS   Field Services <u>Courier</u> Other  <u>n/a</u>	
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/hr Classified as: Rad 1   Rad 2   Rad 3	
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below: PCB's   Flammable   Foreign Soil   RCRA   Asbestos   Beryllium   Other: _____	
Sample Receipt Criteria	Yes <input type="checkbox"/> NA <input type="checkbox"/> No <input type="checkbox"/>	Comments/Qualifiers (Required for Non-Conforming Items)	
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)	
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC   COC created upon receipt	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs   Dry ice <u>None</u> Other: *all temperatures are recorded in Celsius          TEMP: <u>3°C</u>	
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR4-23</u> Secondary Temperature Device Serial # (If Applicable): _____	
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken   Damaged container   Leaking container   Other (describe)	
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____	
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Free zer)	
		Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)	
		Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___	
8 Samples received within holding time?	<input checked="" type="checkbox"/>	Sample ID's and containers affected:	
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:	
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers   No times on containers   COC missing info   Other (describe)	
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC   Other (describe) <u>Missing APE 8 TIS and APE 8722</u>	
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>		
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished   Other (describe)	
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials Co Date 7/3/23 Page \_\_\_\_ of \_\_\_\_

**List of current GEL Certifications as of 27 July 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

October 11, 2023

Ms. Jeanette Gilmetti  
Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical  
Work Order: 640498

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 29, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Jordan Melton for  
Julie Robinson  
Project Manager

Purchase Order: 398684  
Enclosures



## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 640498 GEL Work Order: 640498

**The Qualifiers in this report are defined as follows:**

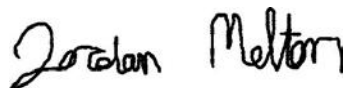
- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by



---

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF79064  
Sample ID: 640498001  
Matrix: GW  
Collect Date: 26-SEP-23 12:13  
Receive Date: 29-SEP-23  
Collector: Client

Project: SOOP00119  
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		211	3.35	10.0	mg/L		50	LXA2	10/10/23	0438	2505683	1
Sulfate		36.0	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF79065  
Sample ID: 640498002  
Matrix: GW  
Collect Date: 27-SEP-23 10:49  
Receive Date: 29-SEP-23  
Collector: Client

Project: SOOP00119  
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		342	6.70	20.0	mg/L		100	LXA2	10/10/23	0610	2505683	1
Sulfate		84.5	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF79066 Project: SOOP00119  
Sample ID: 640498003 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-SEP-23 10:54  
Receive Date: 29-SEP-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		345	6.70	20.0	mg/L		100	LXA2	10/10/23	0641	2505683	1
Sulfate		96.4	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: October 11, 2023

Company : Santee Cooper  
Address : P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina 29461  
Contact: Ms. Jeanette Gilmetti  
Project: ABS Lab Analytical

Client Sample ID: AF79067 Project: SOOP00119  
Sample ID: 640498004 Client ID: SOOP001  
Matrix: GW  
Collect Date: 27-SEP-23 13:19  
Receive Date: 29-SEP-23  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		939	13.4	40.0	mg/L		200	LXA2	10/10/23	0712	2505683	1
Sulfate		699	26.6	80.0	mg/L		200					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level  
DL: Detection Limit PF: Prep Factor  
MDA: Minimum Detectable Activity RL: Reporting Limit  
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: October 11, 2023

Page 1 of 2

Santee Cooper  
P.O. Box 2946101  
OCO3  
Moncks Corner, South Carolina  
Ms. Jeanette Gilmetti

Contact: Ms. Jeanette Gilmetti

Workorder: 640498

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Ion Chromatography</b>											
Batch	2505683										
QC1205541104	640498001	DUP									
Chloride		211		212	mg/L	0.534		(0%-20%)	LXA2	10/10/23	05:09
Sulfate		36.0		38.8	mg/L	7.48 ^		(+/-20.0)			
QC1205541102	LCS										
Chloride	5.00			4.59	mg/L		91.9	(90%-110%)		10/09/23	16:48
Sulfate	10.0			9.45	mg/L		94.5	(90%-110%)			
QC1205541101	MB										
Chloride			U	ND	mg/L					10/09/23	16:17
Sulfate			J	0.183	mg/L						
QC1205541106	640498001	PS									
Chloride	5.00	4.22		9.76	mg/L		111 *	(90%-110%)		10/10/23	05:40
Sulfate	10.0	0.721		10.4	mg/L		97.1	(90%-110%)			

**Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 640498

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Z	Paint Filter Test--	Particulates passed through the filter, however no free liquids were observed.									
d	5-day BOD--	The 2:1 depletion requirement was not met for this sample									
^	RPD of sample and duplicate evaluated using +/-RL.	Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
E	General Chemistry--	Concentration of the target analyte exceeds the instrument calibration range									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
NI	See case narrative										
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.										
B	The target analyte was detected in the associated blank.										
e	5-day BOD--	Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes									
J	See case narrative for an explanation										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**General Chemistry  
Technical Case Narrative  
Santee Cooper  
SDG #: 640498**

**Product:** Ion Chromatography

**Analytical Method:** EPA 300.0

**Analytical Procedure:** GL-GC-E-086 REV# 33

**Analytical Batch:** 2505683

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
640498001	AF79064
640498002	AF79065
640498003	AF79066
640498004	AF79067
1205541101	Method Blank (MB)
1205541102	Laboratory Control Sample (LCS)
1205541104	640498001(AF79064) Sample Duplicate (DUP)
1205541106	640498001(AF79064) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Quality Control (QC) Information**

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205541106 (AF79064PS)	111* (90%-110%)

**Technical Information**

**Sample Dilutions**

The following samples 1205541104 (AF79064DUP), 1205541106 (AF79064PS), 640498001 (AF79064), 640498002 (AF79065), 640498003 (AF79066) and 640498004 (AF79067) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205541104 (AF79064DUP), 1205541106 (AF79064PS), 640498001 (AF79064), 640498002 (AF79065), 640498003 (AF79066) and 640498004 (AF79067) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	640498			
	001	002	003	004
Chloride	50X	100X	100X	200X
Sulfate	50X	100X	100X	200X

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

# Chain of Custody

639,284  
639,285



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by:            Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC  Yes  No

**Analysis Group**

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226/228	TOTAL RAD CALC	F, Cl, SO4
AF79064	WAP-27	9/26/23	1213	ZDM B5B	3	P	G	GW	2/ 1	• Method # • Reporting limit • Misc. sample info • Any other notes	2	X	1
65	WAP-28	9/27/23	1049										
66	WAP-28 DUP		1054										
67	WAP-29		1319										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Janth</i>	36851	9/29/23	0936	<i>[Signature]</i>	GEL	9/29/23	0936
<i>[Signature]</i>	661	9/29/23	1100	<i>[Signature]</i>	GEL	9/29/23	1600

Sample Receiving (Internal Use Only)  
TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> % Carbon <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	---

**SAMPLE RECEIPT & REVIEW FORM**

Client: SCOP SDG/AR/COC/Work Order: U39284 / 639205

Received By: QG Date Received: 9/29/23

Carrier and Tracking Number: n/a  
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information:  Yes  No  
 \*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous?  Hazard Class Shipped: \_\_\_\_\_ UN#: \_\_\_\_\_  
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes \_\_\_ No \_\_\_

B) Did the client designate the samples are to be received as radioactive?  COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive?  Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr  
 Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous?  COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards?  If D or E is yes, select Hazards below.  
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>3°C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JW Date 9/30/23 Page 1 of 1

**List of current GEL Certifications as of 11 October 2023**

<b>State</b>	<b>Certification</b>
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-04
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 7/14/2023 8:56:55 AM Revision 1

## JOB DESCRIPTION

Santee Cooper / 125915

## JOB NUMBER

680-237317-1

# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



Generated  
7/14/2023 8:56:55 AM  
Revision 1

Authorized for release by  
Heather Trotter, Project Manager  
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(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

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**Job ID: 680-237317-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative  
680-237317-1**

**Comments**

No additional comments.

**Revision**

The report being provided is a revision of the original report sent on 7/11/2023. The report (revision 1) is being revised due to: Client needs the Mercury associated with failed QC to be ran again for verification..

**Receipt**

The samples were received on 7/6/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.2° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237317-1	AF68719	Water	06/29/23 10:48	07/06/23 09:40
680-237317-2	AF68720	Water	06/29/23 11:40	07/06/23 09:40
680-237317-3	AF68721	Water	06/29/23 11:45	07/06/23 09:40
680-237317-4	AF68713	Water	06/29/23 13:51	07/06/23 09:40
680-237317-5	AF68714	Water	06/28/23 14:09	07/06/23 09:40
680-237317-6	AF68712	Water	06/28/23 15:20	07/06/23 09:40
680-237317-7	AF68748	Water	06/27/23 10:15	07/06/23 09:40
680-237317-8	AF68711	Water	06/27/23 11:26	07/06/23 09:40
680-237317-9	AF68717	Water	06/27/23 13:57	07/06/23 09:40

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68719** **Lab Sample ID: 680-237317-1**

No Detections.

**Client Sample ID: AF68720** **Lab Sample ID: 680-237317-2**

No Detections.

**Client Sample ID: AF68721** **Lab Sample ID: 680-237317-3**

No Detections.

**Client Sample ID: AF68713** **Lab Sample ID: 680-237317-4**

No Detections.

**Client Sample ID: AF68714** **Lab Sample ID: 680-237317-5**

No Detections.

**Client Sample ID: AF68712** **Lab Sample ID: 680-237317-6**

No Detections.

**Client Sample ID: AF68748** **Lab Sample ID: 680-237317-7**

No Detections.

**Client Sample ID: AF68711** **Lab Sample ID: 680-237317-8**

No Detections.

**Client Sample ID: AF68717** **Lab Sample ID: 680-237317-9**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68719**

**Lab Sample ID: 680-237317-1**

Date Collected: 06/29/23 10:48

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 14:29	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68720**

**Lab Sample ID: 680-237317-2**

Date Collected: 06/29/23 11:40

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1 F2	0.200		ug/L		07/10/23 12:38	07/11/23 14:30	1
Mercury	0.200	U	0.200		ug/L		07/13/23 09:39	07/13/23 13:38	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68721**

**Lab Sample ID: 680-237317-3**

Date Collected: 06/29/23 11:45

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 14:35	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68713**

**Lab Sample ID: 680-237317-4**

Date Collected: 06/29/23 13:51

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 14:36	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68714**

**Lab Sample ID: 680-237317-5**

Date Collected: 06/28/23 14:09

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 14:38	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68712**

**Lab Sample ID: 680-237317-6**

Date Collected: 06/28/23 15:20

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 14:39	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68748**

**Lab Sample ID: 680-237317-7**

Date Collected: 06/27/23 10:15

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 13:19	1

- 1
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68711**

**Lab Sample ID: 680-237317-8**

Date Collected: 06/27/23 11:26

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 13:20	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68717**

**Lab Sample ID: 680-237317-9**

Date Collected: 06/27/23 13:57

Matrix: Water

Date Received: 07/06/23 09:40

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 13:22	1

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

## Method: 7470A - Mercury (CVAA)

<b>Lab Sample ID: MB 680-787520/1-A</b>							<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 787762</b>							<b>Prep Batch: 787520</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		07/10/23 12:38	07/11/23 14:26	1		
<b>Lab Sample ID: LCS 680-787520/2-A</b>							<b>Client Sample ID: Lab Control Sample</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 787762</b>							<b>Prep Batch: 787520</b>				
Analyte	Spike Added		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Mercury	2.50		2.357		ug/L		94	80 - 120			
<b>Lab Sample ID: 680-237317-2 MS</b>							<b>Client Sample ID: AF68720</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 787762</b>							<b>Prep Batch: 787520</b>				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.200	U F1 F2	1.00	0.2587	F1	ug/L		26	80 - 120		
<b>Lab Sample ID: 680-237317-2 MSD</b>							<b>Client Sample ID: AF68720</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 787762</b>							<b>Prep Batch: 787520</b>				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.200	U F1 F2	1.00	0.200	U F1 F2	ug/L		17	80 - 120	40	20
<b>Lab Sample ID: MB 680-788105/1-A</b>							<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 788196</b>							<b>Prep Batch: 788105</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		07/13/23 09:39	07/13/23 13:24	1		
<b>Lab Sample ID: LCS 680-788105/2-A</b>							<b>Client Sample ID: Lab Control Sample</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 788196</b>							<b>Prep Batch: 788105</b>				
Analyte	Spike Added		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Mercury	2.50		2.716		ug/L		109	80 - 120			

# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

## Metals

### Prep Batch: 787520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-1	AF68719	Total/NA	Water	7470A	
680-237317-2	AF68720	Total/NA	Water	7470A	
680-237317-3	AF68721	Total/NA	Water	7470A	
680-237317-4	AF68713	Total/NA	Water	7470A	
680-237317-5	AF68714	Total/NA	Water	7470A	
680-237317-6	AF68712	Total/NA	Water	7470A	
680-237317-7	AF68748	Total/NA	Water	7470A	
680-237317-8	AF68711	Total/NA	Water	7470A	
680-237317-9	AF68717	Total/NA	Water	7470A	
MB 680-787520/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-787520/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237317-2 MS	AF68720	Total/NA	Water	7470A	
680-237317-2 MSD	AF68720	Total/NA	Water	7470A	

### Analysis Batch: 787762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-1	AF68719	Total/NA	Water	7470A	787520
680-237317-2	AF68720	Total/NA	Water	7470A	787520
680-237317-3	AF68721	Total/NA	Water	7470A	787520
680-237317-4	AF68713	Total/NA	Water	7470A	787520
680-237317-5	AF68714	Total/NA	Water	7470A	787520
680-237317-6	AF68712	Total/NA	Water	7470A	787520
680-237317-7	AF68748	Total/NA	Water	7470A	787520
680-237317-8	AF68711	Total/NA	Water	7470A	787520
680-237317-9	AF68717	Total/NA	Water	7470A	787520
MB 680-787520/1-A	Method Blank	Total/NA	Water	7470A	787520
LCS 680-787520/2-A	Lab Control Sample	Total/NA	Water	7470A	787520
680-237317-2 MS	AF68720	Total/NA	Water	7470A	787520
680-237317-2 MSD	AF68720	Total/NA	Water	7470A	787520

### Prep Batch: 788105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-2	AF68720	Total/NA	Water	7470A	
MB 680-788105/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-788105/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 788196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-2	AF68720	Total/NA	Water	7470A	788105
MB 680-788105/1-A	Method Blank	Total/NA	Water	7470A	788105
LCS 680-788105/2-A	Lab Control Sample	Total/NA	Water	7470A	788105

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68719**

**Lab Sample ID: 680-237317-1**

Date Collected: 06/29/23 10:48

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:29

**Client Sample ID: AF68720**

**Lab Sample ID: 680-237317-2**

Date Collected: 06/29/23 11:40

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:30
Total/NA	Prep	7470A			788105	DW	EET SAV	07/13/23 09:39
Total/NA	Analysis	7470A		1	788196	BCB	EET SAV	07/13/23 13:38

**Client Sample ID: AF68721**

**Lab Sample ID: 680-237317-3**

Date Collected: 06/29/23 11:45

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:35

**Client Sample ID: AF68713**

**Lab Sample ID: 680-237317-4**

Date Collected: 06/29/23 13:51

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:36

**Client Sample ID: AF68714**

**Lab Sample ID: 680-237317-5**

Date Collected: 06/28/23 14:09

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:38

**Client Sample ID: AF68712**

**Lab Sample ID: 680-237317-6**

Date Collected: 06/28/23 15:20

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:39

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

**Client Sample ID: AF68748**

**Lab Sample ID: 680-237317-7**

Date Collected: 06/27/23 10:15

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 13:19

**Client Sample ID: AF68711**

**Lab Sample ID: 680-237317-8**

Date Collected: 06/27/23 11:26

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 13:20

**Client Sample ID: AF68717**

**Lab Sample ID: 680-237317-9**

Date Collected: 06/27/23 13:57

Matrix: Water

Date Received: 07/06/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 13:22

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



# Chain of Custody

Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC

LCWILLIA @santecooper.com / / (25915 / JTM02.08.G01.3 / 36500) (Yes) No

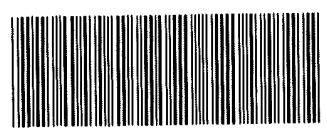
Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments				
AF68719	WAP-9	6/29/23	1048	WJK ML	1	P	G	GW	2	7470 RL= 0.2 ug/L	X			
AF68720	WAP-10		1140											
AF68721	WAP-10 DUP		1145											
AF68713	WAP-3		1351											
AF68714	WAP-4	6/28/23	1409											
AF68712	WAP-2		1520											
AF68748	WBW-1	6/27/23	1015											
AF68711	WAP-1		1126											
AF68717	WAP-7		1357											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Sjbrown	35594	7/5/23	1400	CMmo		7/6/23	0940
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)  
 TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No 211/  
 Preservative Lot#: 212  
 Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input type="checkbox"/> Mn <input type="checkbox"/> Tl <input type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input type="checkbox"/> Na <input type="checkbox"/> Zn <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Cr <input type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flvash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> IX <input type="checkbox"/> GOPER
--	--	--	--	---	---	---



# Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-237317-1

**Login Number: 237317**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Munro, Caroline**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

- 1
- 2
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- 12
- 13
- 14

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 8/9/2023 8:32:53 AM

## JOB DESCRIPTION

125915/JM02.08.G01.3/36500

## JOB NUMBER

680-238532-1

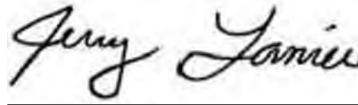
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



Generated  
8/9/2023 8:32:53 AM

Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

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**Job ID: 680-238532-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative  
680-238532-1**

**Receipt**

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238532-1	AF68719	Water	06/29/23 10:48	08/02/23 10:45
680-238532-2	AF68720	Water	06/29/23 11:40	08/02/23 10:45
680-238532-3	AF68721	Water	06/29/23 11:45	08/02/23 10:45
680-238532-4	AF68713	Water	06/29/23 13:51	08/02/23 10:45
680-238532-5	AF68714	Water	06/28/23 14:09	08/02/23 10:45
680-238532-6	AF68712	Water	06/28/23 15:20	08/02/23 10:45

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# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Qualifiers

Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

### Client Sample ID: AF68719

### Lab Sample ID: 680-238532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	232000		500		ug/L	1		6010D	Total Recoverable
Aluminum	547		100		ug/L	1		6020B	Total Recoverable
Arsenic	38.1		3.00		ug/L	1		6020B	Total Recoverable
Barium	99.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.660		0.500		ug/L	1		6020B	Total Recoverable
Iron	28500		100		ug/L	1		6020B	Total Recoverable
Magnesium	30200		250		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68720

### Lab Sample ID: 680-238532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	613000		500		ug/L	1		6010D	Total Recoverable
Barium	270		5.00		ug/L	1		6020B	Total Recoverable
Iron	23800		100		ug/L	1		6020B	Total Recoverable
Magnesium	82200		250		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68721

### Lab Sample ID: 680-238532-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	642000		500		ug/L	1		6010D	Total Recoverable
Barium	304		5.00		ug/L	1		6020B	Total Recoverable
Iron	25200		100		ug/L	1		6020B	Total Recoverable
Magnesium	97700		250		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68713

### Lab Sample ID: 680-238532-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	266000		500		ug/L	1		6010D	Total Recoverable
Barium	200		5.00		ug/L	1		6020B	Total Recoverable
Iron	18600		100		ug/L	1		6020B	Total Recoverable
Magnesium	13800		250		ug/L	1		6020B	Total Recoverable

### Client Sample ID: AF68714

### Lab Sample ID: 680-238532-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	50800		500		ug/L	1		6010D	Total Recoverable
Barium	36.5		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah



# Detection Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Client Sample ID: AF68714 (Continued)

## Lab Sample ID: 680-238532-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1200		100		ug/L	1		6020B	Total Recoverable
Magnesium	4000		250		ug/L	1		6020B	Total Recoverable

## Client Sample ID: AF68712

## Lab Sample ID: 680-238532-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	212000		500		ug/L	1		6010D	Total Recoverable
Aluminum	103		100		ug/L	1		6020B	Total Recoverable
Arsenic	45.7		3.00		ug/L	1		6020B	Total Recoverable
Barium	179		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.570		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	4.70		0.500		ug/L	1		6020B	Total Recoverable
Iron	17800		100		ug/L	1		6020B	Total Recoverable
Magnesium	26900		250		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68719**

**Lab Sample ID: 680-238532-1**

Date Collected: 06/29/23 10:48

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	232000		500		ug/L		08/03/23 06:38	08/04/23 17:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:50	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	547		100		ug/L		08/03/23 06:38	08/08/23 15:58	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Arsenic	38.1		3.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Barium	99.1		5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:58	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:58	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Cobalt	0.660		0.500		ug/L		08/03/23 06:38	08/08/23 15:58	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Iron	28500		100		ug/L		08/03/23 06:38	08/08/23 15:58	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:58	1
Magnesium	30200		250		ug/L		08/03/23 06:38	08/08/23 15:58	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:58	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68720**

**Lab Sample ID: 680-238532-2**

Date Collected: 06/29/23 11:40

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	613000		500		ug/L		08/03/23 06:38	08/04/23 17:23	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:23	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:17	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
<b>Barium</b>	<b>270</b>		5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:17	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:17	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:17	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
<b>Iron</b>	<b>23800</b>		100		ug/L		08/03/23 06:38	08/08/23 15:17	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:17	1
<b>Magnesium</b>	<b>82200</b>		250		ug/L		08/03/23 06:38	08/08/23 15:17	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:17	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68721**

**Lab Sample ID: 680-238532-3**

Date Collected: 06/29/23 11:45

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	642000		500		ug/L		08/03/23 05:51	08/03/23 15:15	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:15	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:30	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
<b>Barium</b>	<b>304</b>		5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:30	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:30	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:30	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
<b>Iron</b>	<b>25200</b>		100		ug/L		08/03/23 05:51	08/07/23 16:30	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:30	1
<b>Magnesium</b>	<b>97700</b>		250		ug/L		08/03/23 05:51	08/07/23 16:30	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:30	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68713**

**Lab Sample ID: 680-238532-4**

Date Collected: 06/29/23 13:51

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	266000		500		ug/L		08/03/23 05:51	08/03/23 15:13	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:13	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:26	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
<b>Barium</b>	<b>200</b>		5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:26	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:26	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:26	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
<b>Iron</b>	<b>18600</b>		100		ug/L		08/03/23 05:51	08/07/23 16:26	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:26	1
<b>Magnesium</b>	<b>13800</b>		250		ug/L		08/03/23 05:51	08/07/23 16:26	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:26	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68714**

**Lab Sample ID: 680-238532-5**

Date Collected: 06/28/23 14:09

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	50800		500		ug/L		08/03/23 05:51	08/03/23 15:11	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:11	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:22	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
<b>Barium</b>	<b>36.5</b>		5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:22	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:22	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:22	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
<b>Iron</b>	<b>1200</b>		100		ug/L		08/03/23 05:51	08/07/23 16:22	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:22	1
<b>Magnesium</b>	<b>4000</b>		250		ug/L		08/03/23 05:51	08/07/23 16:22	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:22	1

# Client Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68712**

**Lab Sample ID: 680-238532-6**

Date Collected: 06/28/23 15:20

Matrix: Water

Date Received: 08/02/23 10:45

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	212000		500		ug/L		08/03/23 06:38	08/04/23 17:20	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:20	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	103		100		ug/L		08/03/23 06:38	08/08/23 15:13	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Arsenic	45.7		3.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Barium	179		5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Beryllium	0.570		0.500		ug/L		08/03/23 06:38	08/08/23 15:13	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:13	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Cobalt	4.70		0.500		ug/L		08/03/23 06:38	08/08/23 15:13	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Iron	17800		100		ug/L		08/03/23 06:38	08/08/23 15:13	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:13	1
Magnesium	26900		250		ug/L		08/03/23 06:38	08/08/23 15:13	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:13	1

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791516/1-A  
 Matrix: Water  
 Analysis Batch: 791719

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791516

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 05:51	08/03/23 14:52	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 14:52	1

Lab Sample ID: LCS 680-791516/2-A  
 Matrix: Water  
 Analysis Batch: 791719

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 791516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4950		ug/L		99	80 - 120	
Selenium	100	94.39		ug/L		94	80 - 120	

Lab Sample ID: MB 680-791519/1-A  
 Matrix: Water  
 Analysis Batch: 791897

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791519

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

Lab Sample ID: LCS 680-791519/2-A  
 Matrix: Water  
 Analysis Batch: 791897

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 791519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	5000	4801		ug/L		96	80 - 120	
Selenium	100	99.73		ug/L		100	80 - 120	

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791513/1-A  
 Matrix: Water  
 Analysis Batch: 792230

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 791513

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Barium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 15:57	1
Magnesium	250	U	250		ug/L		08/03/23 05:51	08/07/23 15:57	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 15:57	1



# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 680-791513/2-A**  
**Matrix: Water**  
**Analysis Batch: 792230**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791513**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	5050	5120		ug/L		101	80 - 120	
Antimony	50.0	50.97		ug/L		102	80 - 120	
Arsenic	100	106.4		ug/L		106	80 - 120	
Barium	100	102.9		ug/L		103	80 - 120	
Beryllium	50.0	49.97		ug/L		100	80 - 120	
Cadmium	50.0	50.92		ug/L		102	80 - 120	
Chromium	100	109.3		ug/L		109	80 - 120	
Cobalt	50.0	55.15		ug/L		110	80 - 120	
Copper	100	113.2		ug/L		113	80 - 120	
Iron	4990	5167		ug/L		104	80 - 120	
Lead	500	530.5		ug/L		106	80 - 120	
Magnesium	5000	4977		ug/L		100	80 - 120	
Thallium	50.0	50.20		ug/L		100	80 - 120	
Zinc	100	110.4		ug/L		110	80 - 120	

**Lab Sample ID: MB 680-791518/1-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Magnesium	250	U	250		ug/L		08/03/23 06:38	08/08/23 14:41	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1

**Lab Sample ID: LCS 680-791518/2-A**  
**Matrix: Water**  
**Analysis Batch: 792490**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 791518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	5050	4652		ug/L		92	80 - 120	
Antimony	50.0	46.52		ug/L		93	80 - 120	
Arsenic	100	97.80		ug/L		98	80 - 120	
Barium	100	95.86		ug/L		96	80 - 120	
Beryllium	50.0	48.56		ug/L		97	80 - 120	
Cadmium	50.0	46.20		ug/L		92	80 - 120	
Chromium	100	100.4		ug/L		100	80 - 120	
Cobalt	50.0	47.54		ug/L		95	80 - 120	
Copper	100	102.8		ug/L		103	80 - 120	

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# QC Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791518/2-A

Matrix: Water

Analysis Batch: 792490

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 791518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	4990	5052		ug/L		101	80 - 120
Lead	500	485.1		ug/L		97	80 - 120
Magnesium	5000	4591		ug/L		92	80 - 120
Thallium	50.0	46.82		ug/L		94	80 - 120
Zinc	100	101.9		ug/L		102	80 - 120

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Metals

### Prep Batch: 791513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-3	AF68721	Total Recoverable	Water	3005A	
680-238532-4	AF68713	Total Recoverable	Water	3005A	
680-238532-5	AF68714	Total Recoverable	Water	3005A	
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-3	AF68721	Total Recoverable	Water	3005A	
680-238532-4	AF68713	Total Recoverable	Water	3005A	
680-238532-5	AF68714	Total Recoverable	Water	3005A	
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	3005A	
680-238532-2	AF68720	Total Recoverable	Water	3005A	
680-238532-6	AF68712	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	3005A	
680-238532-2	AF68720	Total Recoverable	Water	3005A	
680-238532-6	AF68712	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 791719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-3	AF68721	Total Recoverable	Water	6010D	791516
680-238532-4	AF68713	Total Recoverable	Water	6010D	791516
680-238532-5	AF68714	Total Recoverable	Water	6010D	791516
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	6010D	791516
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791516

### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	6010D	791519
680-238532-2	AF68720	Total Recoverable	Water	6010D	791519
680-238532-6	AF68712	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

### Analysis Batch: 792230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-3	AF68721	Total Recoverable	Water	6020B	791513
680-238532-4	AF68713	Total Recoverable	Water	6020B	791513
680-238532-5	AF68714	Total Recoverable	Water	6020B	791513

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# QC Association Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Metals (Continued)

### Analysis Batch: 792230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	6020B	791513
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791513

### Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	6020B	791518
680-238532-2	AF68720	Total Recoverable	Water	6020B	791518
680-238532-6	AF68712	Total Recoverable	Water	6020B	791518
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

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# Lab Chronicle

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68719**

**Lab Sample ID: 680-238532-1**

Date Collected: 06/29/23 10:48

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:50
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:58

**Client Sample ID: AF68720**

**Lab Sample ID: 680-238532-2**

Date Collected: 06/29/23 11:40

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:23
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:17

**Client Sample ID: AF68721**

**Lab Sample ID: 680-238532-3**

Date Collected: 06/29/23 11:45

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:15
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:30

**Client Sample ID: AF68713**

**Lab Sample ID: 680-238532-4**

Date Collected: 06/29/23 13:51

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:13
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:26

**Client Sample ID: AF68714**

**Lab Sample ID: 680-238532-5**

Date Collected: 06/28/23 14:09

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:11
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:22

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

**Client Sample ID: AF68712**

**Lab Sample ID: 680-238532-6**

Date Collected: 06/28/23 15:20

Matrix: Water

Date Received: 08/02/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:20
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:13

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Chain of Custody

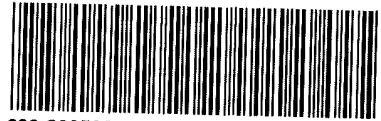
santee cooper

Santee Cooper  
One Riverwood Drive  
Moncks Corner, SC 29461  
Phone (843)761-8000 Ext 5148  
Fax. (843)761-4175

Customer Email/Report Recipient: \_\_\_\_\_ Date Results Needed by: \_\_\_\_\_ Project/Task/Unit #: \_\_\_\_\_ Rerun request for any flagged QC

LCWILLIA @santecooper.com \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ 125915 / JM02.08.G01.3 / 36500 (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW
AF68719	WAP-9	6/29/23	1048	WJK ML	1	P	G	GW	2	6020	X
AF68720	WAP-10		1140							- SEE SHEET FOR RLS.	
AF68721	WAP-10 DUP		1145								
AF68713	WAP-3		1351							*PLEASE RETURN SAMPLES UPON COMPLETION.	
AF68714	WAP-4	6/28/23	1409								
AF68712	WAP-2		1520								
 680-238532 Chain of Custody											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	8/2/23	0756	<i>E.Hodge</i>	COURIER	8/2/23	0756
<i>E.Hodge</i>	COURIER	8/2/23	1044	<i>TA</i>	TA	8-2-23	1045

Sample Receiving (Internal Use Only)  
TEMP (°C): 42/43 Initial: \_\_\_\_\_  
Correct pH: Yes No  
Preservative Lot#: \_\_\_\_\_  
Date/Time/Init for preservative: \_\_\_\_\_

<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input checked="" type="checkbox"/> Cu <input checked="" type="checkbox"/> Sb <input checked="" type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input checked="" type="checkbox"/> Se <input checked="" type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Be <input type="checkbox"/> Mn <input checked="" type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input checked="" type="checkbox"/> Cd <input type="checkbox"/> Na <input checked="" type="checkbox"/> Zn <input checked="" type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input checked="" type="checkbox"/> Cr <input checked="" type="checkbox"/> Pb <input type="checkbox"/> CrVI	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <b>Gypsum(all below)</b> <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <b>Other Tests:</b> <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Defective Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <b>Used Oil</b> <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	--	--	---	--	---

## Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-238532-1

Login Number: 238532

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

- 1
- 2
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\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Linda Williams  
South Carolina Public Service Authority  
Santee Cooper  
PO BOX 2946101  
Moncks Corner, South Carolina 29461-2901

Generated 8/3/2023 6:06:42 PM Revision 1

## JOB DESCRIPTION

125915/JM02-08-G01.1/36500

## JOB NUMBER

680-237959-1

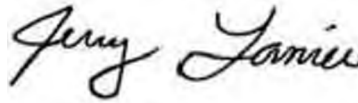
# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

## Authorization



Generated  
8/3/2023 6:06:42 PM  
Revision 1

Authorized for release by  
Jerry Lanier, Project Manager I  
[Jerry.Lanier@et.eurofinsus.com](mailto:Jerry.Lanier@et.eurofinsus.com)  
(912)250-0281

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# Case Narrative

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

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**Job ID: 680-237959-1**

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**Laboratory: Eurofins Savannah**

**Narrative**

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**Job Narrative  
680-237959-1**

**Receipt**

The samples were received on 7/20/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.7°C

**Revision**

The final report was revised to include the re-prepped data for samples which failed MS/MSD. Both sets of data have been reported.

**Metals**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Sample Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237959-1	AF68738	Water	07/12/23 12:28	07/20/23 09:45
680-237959-2	AF68732	Water	07/12/23 14:32	07/20/23 09:45
680-237959-3	AF68740	Water	07/12/23 11:01	07/20/23 09:45
680-237959-4	AF68743	Water	07/12/23 13:23	07/20/23 09:45
680-237959-5	AF68744	Water	07/12/23 13:28	07/20/23 09:45
680-237959-6	AF68745	Water	07/11/23 15:21	07/20/23 09:45
680-237959-7	AF68741	Water	07/11/23 12:51	07/20/23 09:45
680-237959-8	AF68725	Water	07/18/23 11:49	07/20/23 09:45
680-237959-9	AF68742	Water	07/18/23 14:53	07/20/23 09:45
680-237959-10	AF68747	Water	07/17/23 10:08	07/20/23 09:45
680-237959-11	AF68731	Water	07/17/23 11:15	07/20/23 09:45
680-237959-12	AF68723	Water	07/17/23 13:00	07/20/23 09:45
680-237959-13	AF68724	Water	07/17/23 13:05	07/20/23 09:45
680-237959-14	AF68746	Water	07/17/23 14:24	07/20/23 09:45
680-237959-15	AF68726	Water	07/13/23 14:16	07/20/23 09:45
680-237959-16	AF68725	Water	07/13/23 14:21	07/20/23 09:45
680-237959-17	AF68730	Water	07/13/23 10:01	07/20/23 09:45
680-237959-18	AF68729	Water	07/13/23 11:24	07/20/23 09:45
680-237959-19	AF68728	Water	07/13/23 13:32	07/20/23 09:45
680-237959-20	AF68751	Water	07/10/23 10:00	07/20/23 09:45
680-237959-21	AF68750	Water	07/10/23 11:18	07/20/23 09:45
680-237959-22	AF68755	Water	07/10/23 12:59	07/20/23 09:45
680-237959-23	AF68733	Water	07/10/23 14:10	07/20/23 09:45
680-237959-24	AF68734	Water	07/10/23 14:15	07/20/23 09:45
680-237959-25	AF68757	Water	07/11/23 09:51	07/20/23 09:45
680-237959-26	AF68749	Water	07/11/23 10:52	07/20/23 09:45

# Method Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# Definitions/Glossary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

<b>Client Sample ID: AF68738</b>	<b>Lab Sample ID: 680-237959-1</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68732</b>	<b>Lab Sample ID: 680-237959-2</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68740</b>	<b>Lab Sample ID: 680-237959-3</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68743</b>	<b>Lab Sample ID: 680-237959-4</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68744</b>	<b>Lab Sample ID: 680-237959-5</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68745</b>	<b>Lab Sample ID: 680-237959-6</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68741</b>	<b>Lab Sample ID: 680-237959-7</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68725</b>	<b>Lab Sample ID: 680-237959-8</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68742</b>	<b>Lab Sample ID: 680-237959-9</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68747</b>	<b>Lab Sample ID: 680-237959-10</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68731</b>	<b>Lab Sample ID: 680-237959-11</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68723</b>	<b>Lab Sample ID: 680-237959-12</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68724</b>	<b>Lab Sample ID: 680-237959-13</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68746</b>	<b>Lab Sample ID: 680-237959-14</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68726</b>	<b>Lab Sample ID: 680-237959-15</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: AF68725</b>	<b>Lab Sample ID: 680-237959-16</b>
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# Detection Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68730** **Lab Sample ID: 680-237959-17**

No Detections.

**Client Sample ID: AF68729** **Lab Sample ID: 680-237959-18**

No Detections.

**Client Sample ID: AF68728** **Lab Sample ID: 680-237959-19**

No Detections.

**Client Sample ID: AF68751** **Lab Sample ID: 680-237959-20**

No Detections.

**Client Sample ID: AF68750** **Lab Sample ID: 680-237959-21**

No Detections.

**Client Sample ID: AF68755** **Lab Sample ID: 680-237959-22**

No Detections.

**Client Sample ID: AF68733** **Lab Sample ID: 680-237959-23**

No Detections.

**Client Sample ID: AF68734** **Lab Sample ID: 680-237959-24**

No Detections.

**Client Sample ID: AF68757** **Lab Sample ID: 680-237959-25**

No Detections.

**Client Sample ID: AF68749** **Lab Sample ID: 680-237959-26**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68738**

**Lab Sample ID: 680-237959-1**

Date Collected: 07/12/23 12:28

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:36	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68732**

**Lab Sample ID: 680-237959-2**

Date Collected: 07/12/23 14:32

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:40	1

- 1
- 2
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68740**

**Lab Sample ID: 680-237959-3**

Date Collected: 07/12/23 11:01

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:42	1

- 1
- 2
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68743**

**Lab Sample ID: 680-237959-4**

Date Collected: 07/12/23 13:23

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:43	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68744**

**Lab Sample ID: 680-237959-5**

Date Collected: 07/12/23 13:28

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:45	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68745**

**Lab Sample ID: 680-237959-6**

Date Collected: 07/11/23 15:21

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:46	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68741**

**Lab Sample ID: 680-237959-7**

Date Collected: 07/11/23 12:51

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:51	1

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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-8**

Date Collected: 07/18/23 11:49

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:53	1

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- 13
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68742**

**Lab Sample ID: 680-237959-9**

Date Collected: 07/18/23 14:53

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:54	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68747**

**Lab Sample ID: 680-237959-10**

Date Collected: 07/17/23 10:08

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:56	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68731**

**Lab Sample ID: 680-237959-11**

Date Collected: 07/17/23 11:15

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68723**

**Lab Sample ID: 680-237959-12**

Date Collected: 07/17/23 13:00

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:59	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68724**

**Lab Sample ID: 680-237959-13**

Date Collected: 07/17/23 13:05

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 17:00	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68746**

**Lab Sample ID: 680-237959-14**

**Date Collected: 07/17/23 14:24**

**Matrix: Water**

**Date Received: 07/20/23 09:45**

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1 F2	0.200		ug/L		07/25/23 12:25	07/26/23 10:29	1
Mercury	0.200	U	0.200		ug/L		08/02/23 10:19	08/03/23 10:19	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
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# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68726**

**Lab Sample ID: 680-237959-15**

Date Collected: 07/13/23 14:16

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1	0.200		ug/L		07/25/23 12:39	07/26/23 10:37	1
Mercury	0.200	U	0.200		ug/L		08/02/23 10:19	08/03/23 10:20	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-16**

Date Collected: 07/13/23 14:21

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:45	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68730**

**Lab Sample ID: 680-237959-17**

Date Collected: 07/13/23 10:01

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:46	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68729**

**Lab Sample ID: 680-237959-18**

Date Collected: 07/13/23 11:24

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:48	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68728**

**Lab Sample ID: 680-237959-19**

Date Collected: 07/13/23 13:32

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:49	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68751**

**Lab Sample ID: 680-237959-20**

Date Collected: 07/10/23 10:00

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:51	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68750**

**Lab Sample ID: 680-237959-21**

Date Collected: 07/10/23 11:18

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:52	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68755**

**Lab Sample ID: 680-237959-22**

Date Collected: 07/10/23 12:59

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:54	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68733**

**Lab Sample ID: 680-237959-23**

Date Collected: 07/10/23 14:10

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:55	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68734**

**Lab Sample ID: 680-237959-24**

Date Collected: 07/10/23 14:15

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68757**

**Lab Sample ID: 680-237959-25**

Date Collected: 07/11/23 09:51

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 11:02	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68749**

**Lab Sample ID: 680-237959-26**

Date Collected: 07/11/23 10:52

Matrix: Water

Date Received: 07/20/23 09:45

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 11:03	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-789400/1-A**  
**Matrix: Water**  
**Analysis Batch: 789621**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 789400**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/21/23 10:52	07/21/23 16:32	1

**Lab Sample ID: LCS 680-789400/2-A**  
**Matrix: Water**  
**Analysis Batch: 789621**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 789400**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.592		ug/L		104	80 - 120

**Lab Sample ID: 680-237959-1 MS**  
**Matrix: Water**  
**Analysis Batch: 789621**

**Client Sample ID: AF68738**  
**Prep Type: Total/NA**  
**Prep Batch: 789400**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	1.059		ug/L		97	80 - 120

**Lab Sample ID: 680-237959-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 789621**

**Client Sample ID: AF68738**  
**Prep Type: Total/NA**  
**Prep Batch: 789400**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	1.032		ug/L		94	80 - 120	3	20

**Lab Sample ID: MB 680-789957/12-A**  
**Matrix: Water**  
**Analysis Batch: 790193**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 789957**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/25/23 12:25	07/26/23 10:26	1

**Lab Sample ID: LCS 680-789957/13-A**  
**Matrix: Water**  
**Analysis Batch: 790193**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 789957**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.644		ug/L		106	80 - 120

**Lab Sample ID: 680-237959-14 MS**  
**Matrix: Water**  
**Analysis Batch: 790193**

**Client Sample ID: AF68746**  
**Prep Type: Total/NA**  
**Prep Batch: 789957**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1 F2	1.00	0.2046	F1	ug/L		20	80 - 120

**Lab Sample ID: 680-237959-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 790193**

**Client Sample ID: AF68746**  
**Prep Type: Total/NA**  
**Prep Batch: 789957**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U F1 F2	1.00	0.200	U F1 F2	ug/L		16	80 - 120	27	20

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# QC Sample Results

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

## Method: 7470A - Mercury (CVAA)

<b>Lab Sample ID: MB 680-789960/1-A</b>							<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 790193</b>							<b>Prep Batch: 789960</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:34	1		
<b>Lab Sample ID: LCS 680-789960/2-A</b>							<b>Client Sample ID: Lab Control Sample</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 790193</b>							<b>Prep Batch: 789960</b>				
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.50	2.631		ug/L		105	80 - 120		
<b>Lab Sample ID: 680-237959-15 MS</b>							<b>Client Sample ID: AF68726</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 790193</b>							<b>Prep Batch: 789960</b>				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.200	U F1	1.00	0.2226	F1	ug/L		22	80 - 120		
<b>Lab Sample ID: 680-237959-15 MSD</b>							<b>Client Sample ID: AF68726</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 790193</b>							<b>Prep Batch: 789960</b>				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.200	U F1	1.00	0.2316	F1	ug/L		23	80 - 120	4	20
<b>Lab Sample ID: MB 680-791340/12-A</b>							<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 791612</b>							<b>Prep Batch: 791340</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		08/02/23 10:17	08/03/23 10:11	1		
<b>Lab Sample ID: LCS 680-791340/13-A</b>							<b>Client Sample ID: Lab Control Sample</b>				
<b>Matrix: Water</b>							<b>Prep Type: Total/NA</b>				
<b>Analysis Batch: 791612</b>							<b>Prep Batch: 791340</b>				
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.50	2.769		ug/L		111	80 - 120		

# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

## Metals

### Prep Batch: 789400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total/NA	Water	7470A	
680-237959-2	AF68732	Total/NA	Water	7470A	
680-237959-3	AF68740	Total/NA	Water	7470A	
680-237959-4	AF68743	Total/NA	Water	7470A	
680-237959-5	AF68744	Total/NA	Water	7470A	
680-237959-6	AF68745	Total/NA	Water	7470A	
680-237959-7	AF68741	Total/NA	Water	7470A	
680-237959-8	AF68725	Total/NA	Water	7470A	
680-237959-9	AF68742	Total/NA	Water	7470A	
680-237959-10	AF68747	Total/NA	Water	7470A	
680-237959-11	AF68731	Total/NA	Water	7470A	
680-237959-12	AF68723	Total/NA	Water	7470A	
680-237959-13	AF68724	Total/NA	Water	7470A	
MB 680-789400/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-789400/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237959-1 MS	AF68738	Total/NA	Water	7470A	
680-237959-1 MSD	AF68738	Total/NA	Water	7470A	

### Analysis Batch: 789621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total/NA	Water	7470A	789400
680-237959-2	AF68732	Total/NA	Water	7470A	789400
680-237959-3	AF68740	Total/NA	Water	7470A	789400
680-237959-4	AF68743	Total/NA	Water	7470A	789400
680-237959-5	AF68744	Total/NA	Water	7470A	789400
680-237959-6	AF68745	Total/NA	Water	7470A	789400
680-237959-7	AF68741	Total/NA	Water	7470A	789400
680-237959-8	AF68725	Total/NA	Water	7470A	789400
680-237959-9	AF68742	Total/NA	Water	7470A	789400
680-237959-10	AF68747	Total/NA	Water	7470A	789400
680-237959-11	AF68731	Total/NA	Water	7470A	789400
680-237959-12	AF68723	Total/NA	Water	7470A	789400
680-237959-13	AF68724	Total/NA	Water	7470A	789400
MB 680-789400/1-A	Method Blank	Total/NA	Water	7470A	789400
LCS 680-789400/2-A	Lab Control Sample	Total/NA	Water	7470A	789400
680-237959-1 MS	AF68738	Total/NA	Water	7470A	789400
680-237959-1 MSD	AF68738	Total/NA	Water	7470A	789400

### Prep Batch: 789957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	
MB 680-789957/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-789957/13-A	Lab Control Sample	Total/NA	Water	7470A	
680-237959-14 MS	AF68746	Total/NA	Water	7470A	
680-237959-14 MSD	AF68746	Total/NA	Water	7470A	

### Prep Batch: 789960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-15	AF68726	Total/NA	Water	7470A	
680-237959-16	AF68725	Total/NA	Water	7470A	
680-237959-17	AF68730	Total/NA	Water	7470A	

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# QC Association Summary

Client: South Carolina Public Service Authority  
 Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

## Metals (Continued)

### Prep Batch: 789960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-18	AF68729	Total/NA	Water	7470A	
680-237959-19	AF68728	Total/NA	Water	7470A	
680-237959-20	AF68751	Total/NA	Water	7470A	
680-237959-21	AF68750	Total/NA	Water	7470A	
680-237959-22	AF68755	Total/NA	Water	7470A	
680-237959-23	AF68733	Total/NA	Water	7470A	
680-237959-24	AF68734	Total/NA	Water	7470A	
680-237959-25	AF68757	Total/NA	Water	7470A	
680-237959-26	AF68749	Total/NA	Water	7470A	
MB 680-789960/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-789960/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237959-15 MS	AF68726	Total/NA	Water	7470A	
680-237959-15 MSD	AF68726	Total/NA	Water	7470A	

### Analysis Batch: 790193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	789957
680-237959-15	AF68726	Total/NA	Water	7470A	789960
680-237959-16	AF68725	Total/NA	Water	7470A	789960
680-237959-17	AF68730	Total/NA	Water	7470A	789960
680-237959-18	AF68729	Total/NA	Water	7470A	789960
680-237959-19	AF68728	Total/NA	Water	7470A	789960
680-237959-20	AF68751	Total/NA	Water	7470A	789960
680-237959-21	AF68750	Total/NA	Water	7470A	789960
680-237959-22	AF68755	Total/NA	Water	7470A	789960
680-237959-23	AF68733	Total/NA	Water	7470A	789960
680-237959-24	AF68734	Total/NA	Water	7470A	789960
680-237959-25	AF68757	Total/NA	Water	7470A	789960
680-237959-26	AF68749	Total/NA	Water	7470A	789960
MB 680-789957/12-A	Method Blank	Total/NA	Water	7470A	789957
MB 680-789960/1-A	Method Blank	Total/NA	Water	7470A	789960
LCS 680-789957/13-A	Lab Control Sample	Total/NA	Water	7470A	789957
LCS 680-789960/2-A	Lab Control Sample	Total/NA	Water	7470A	789960
680-237959-14 MS	AF68746	Total/NA	Water	7470A	789957
680-237959-14 MSD	AF68746	Total/NA	Water	7470A	789957
680-237959-15 MS	AF68726	Total/NA	Water	7470A	789960
680-237959-15 MSD	AF68726	Total/NA	Water	7470A	789960

### Prep Batch: 791340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	
680-237959-15	AF68726	Total/NA	Water	7470A	
MB 680-791340/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-791340/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 791612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	791340
680-237959-15	AF68726	Total/NA	Water	7470A	791340
MB 680-791340/12-A	Method Blank	Total/NA	Water	7470A	791340
LCS 680-791340/13-A	Lab Control Sample	Total/NA	Water	7470A	791340

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# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68738**

**Lab Sample ID: 680-237959-1**

Date Collected: 07/12/23 12:28

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:36

**Client Sample ID: AF68732**

**Lab Sample ID: 680-237959-2**

Date Collected: 07/12/23 14:32

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:40

**Client Sample ID: AF68740**

**Lab Sample ID: 680-237959-3**

Date Collected: 07/12/23 11:01

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:42

**Client Sample ID: AF68743**

**Lab Sample ID: 680-237959-4**

Date Collected: 07/12/23 13:23

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:43

**Client Sample ID: AF68744**

**Lab Sample ID: 680-237959-5**

Date Collected: 07/12/23 13:28

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:45

**Client Sample ID: AF68745**

**Lab Sample ID: 680-237959-6**

Date Collected: 07/11/23 15:21

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:46

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68741**

**Lab Sample ID: 680-237959-7**

Date Collected: 07/11/23 12:51

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:51

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-8**

Date Collected: 07/18/23 11:49

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:53

**Client Sample ID: AF68742**

**Lab Sample ID: 680-237959-9**

Date Collected: 07/18/23 14:53

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:54

**Client Sample ID: AF68747**

**Lab Sample ID: 680-237959-10**

Date Collected: 07/17/23 10:08

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:56

**Client Sample ID: AF68731**

**Lab Sample ID: 680-237959-11**

Date Collected: 07/17/23 11:15

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:57

**Client Sample ID: AF68723**

**Lab Sample ID: 680-237959-12**

Date Collected: 07/17/23 13:00

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:59

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68724**

**Lab Sample ID: 680-237959-13**

Date Collected: 07/17/23 13:05

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 17:00

**Client Sample ID: AF68746**

**Lab Sample ID: 680-237959-14**

Date Collected: 07/17/23 14:24

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789957	DW	EET SAV	07/25/23 12:25
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:29
Total/NA	Prep	7470A			791340	DW	EET SAV	08/02/23 10:19
Total/NA	Analysis	7470A		1	791612	BJB	EET SAV	08/03/23 10:19

**Client Sample ID: AF68726**

**Lab Sample ID: 680-237959-15**

Date Collected: 07/13/23 14:16

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:37
Total/NA	Prep	7470A			791340	DW	EET SAV	08/02/23 10:19
Total/NA	Analysis	7470A		1	791612	BJB	EET SAV	08/03/23 10:20

**Client Sample ID: AF68725**

**Lab Sample ID: 680-237959-16**

Date Collected: 07/13/23 14:21

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:45

**Client Sample ID: AF68730**

**Lab Sample ID: 680-237959-17**

Date Collected: 07/13/23 10:01

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:46

**Client Sample ID: AF68729**

**Lab Sample ID: 680-237959-18**

Date Collected: 07/13/23 11:24

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:48

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# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68728**

**Lab Sample ID: 680-237959-19**

Date Collected: 07/13/23 13:32

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:49

**Client Sample ID: AF68751**

**Lab Sample ID: 680-237959-20**

Date Collected: 07/10/23 10:00

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:51

**Client Sample ID: AF68750**

**Lab Sample ID: 680-237959-21**

Date Collected: 07/10/23 11:18

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:52

**Client Sample ID: AF68755**

**Lab Sample ID: 680-237959-22**

Date Collected: 07/10/23 12:59

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:54

**Client Sample ID: AF68733**

**Lab Sample ID: 680-237959-23**

Date Collected: 07/10/23 14:10

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:55

**Client Sample ID: AF68734**

**Lab Sample ID: 680-237959-24**

Date Collected: 07/10/23 14:15

Matrix: Water

Date Received: 07/20/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:57

# Lab Chronicle

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68757**

**Lab Sample ID: 680-237959-25**

**Date Collected: 07/11/23 09:51**

**Matrix: Water**

**Date Received: 07/20/23 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 11:02

**Client Sample ID: AF68749**

**Lab Sample ID: 680-237959-26**

**Date Collected: 07/11/23 10:52**

**Matrix: Water**

**Date Received: 07/20/23 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 11:03

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



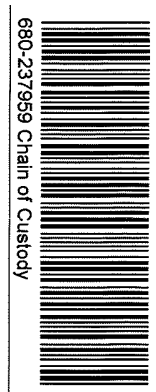
Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, O-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1<4°C 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

<input type="checkbox"/> Cr <input type="checkbox"/> Co <input type="checkbox"/> Cd <input type="checkbox"/> Ca <input type="checkbox"/> Be <input type="checkbox"/> Ba <input type="checkbox"/> B <input type="checkbox"/> As <input type="checkbox"/> Al <input type="checkbox"/> Ag	<input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> Sb <input type="checkbox"/> Sn <input type="checkbox"/> K <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ti <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Zn <input type="checkbox"/> Ni <input type="checkbox"/> Hg <input type="checkbox"/> Pb <input type="checkbox"/> Cr-VI
<b>☐ METALS (all)</b> TOC DOC THM/HAA TP/TP04 NHA-N VOC E. Coli Total Coliform pH Dissolved As Rad 226 Rad 228 PCB	<b>Nutrients</b> BTEX Naphthalene THM/HAA VOC E. Coli Oil & Grease Total Metals Soluble Metals Purity (CAS#) % Moisture Sulfides pH Chlorides Particle Size Sulfur
Ultimate % Moisture Ash Sulfur BTUS Volatile Matter CHN XRF Scan HGI Fineness Particulate Matter	<b>Coal</b> Ammonia LOI % Carbon Mineral Analysis Sieve % Moisture NPDES Oil & Grease TSS
Flyash LOI % Carbon Mineral Analysis Sieve % Moisture NPDES Oil & Grease TSS	<b>Oil</b> Trace Oil Acid Sulfur BTUS Volatile Matter CHN XRF Scan HGI Fineness Particulate Matter GOML TX HTX

Received by: _____ Date: _____ Time: _____ Employee # _____	Received by: _____ Date: _____ Time: _____ Employee # _____	Received by: _____ Date: _____ Time: _____ Employee # _____	Received by: _____ Date: _____ Time: _____ Employee # _____
Received by: _____ Date: _____ Time: _____ Employee # _____	Received by: _____ Date: _____ Time: _____ Employee # _____	Received by: _____ Date: _____ Time: _____ Employee # _____	Received by: _____ Date: _____ Time: _____ Employee # _____

Labworks ID #	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle Type: (Glass-g/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Method #	Reporting limit	Misc. sample info	Any other notes
AF 68738	WAF-21	7/12/23	1228	WDX ML	1	P	G	GW	2	7470	RL-0.2 ug/L	X	Hg
AF 68732	WAF-16		1432										
AF 68740	WAF-23		1101										
AF 68743	WAF-26		1323										
AF 68744	WAF-26 DUP		1328										
AF 68745	WAF-27	7/11/23	1521										
AF 68741	WAF-24		1251										
AF 68725	WAF-13	7/18/23	1149										
AF 68742	WAF-25	7/18/23	1453										



Contract Lab Due Date (Lab Only): 7/31/23  
 Send report to lwvillia@santecooper.com & sbrown@santecooper.com

Customer Email/Report Recipient: LCWILLIA@Santecooper.com  
 Date Results Needed by: \_\_\_\_\_  
 Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500  
 Rerun request for any flagged QC:  Yes  No

Analysis Group: \_\_\_\_\_

Santee Cooper  
 One Riverwood Drive  
 Moncks Corner, SC 29461  
 Phone: (843)761-8000 Ext. 5148  
 Fax: (843)761-4175

## Chain of Custody

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, O-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1=<4°C 2=HNO<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4=HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

<input type="checkbox"/> Cr <input type="checkbox"/> Co <input type="checkbox"/> Cd <input type="checkbox"/> Ca <input type="checkbox"/> Ba <input type="checkbox"/> B <input type="checkbox"/> As <input type="checkbox"/> Al <input type="checkbox"/> Ag	<input type="checkbox"/> Pb <input type="checkbox"/> Ni <input type="checkbox"/> Na <input type="checkbox"/> Mo <input type="checkbox"/> Mn <input type="checkbox"/> Mg <input type="checkbox"/> Li <input type="checkbox"/> K <input type="checkbox"/> Fe <input type="checkbox"/> Cu	<input type="checkbox"/> CrVI <input type="checkbox"/> Hg <input type="checkbox"/> Zn <input type="checkbox"/> V <input type="checkbox"/> Ti <input type="checkbox"/> Ti <input type="checkbox"/> Sr <input type="checkbox"/> Sn <input type="checkbox"/> Se <input type="checkbox"/> Sb	<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TP04 <input type="checkbox"/> NH <sub>3</sub> -N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> SO <sub>4</sub>	<b>MISC.</b> <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> THM/HAA <input type="checkbox"/> VOC <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<b>Gypsum</b> <input type="checkbox"/> Wallboard <input type="checkbox"/> Gypsum (all) <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Fatty (C:SSO <sub>4</sub> ) <input type="checkbox"/> Substies <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<b>Coal</b> <input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<b>Flyash</b> <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral <input type="checkbox"/> Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> TSS	<b>Oil</b> <input type="checkbox"/> Trans, On Seal <input type="checkbox"/> Motor <input type="checkbox"/> Acety <input type="checkbox"/> Motor <input type="checkbox"/> Diesel <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil <input type="checkbox"/> (As, Cd, Cr, Ni, Pb) <input type="checkbox"/> Hg <input type="checkbox"/> TOC <input type="checkbox"/> GOTTN
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Relinquished by: <i>Stevenson</i>	Employee# 35594	Date 7/19/23	Time 1300	Received by: <i>[Signature]</i>	Employee#	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee#	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee#	Date	Time

Sample Receiving (Internal Use Only) TEMP (°C): \_\_\_\_\_ Initial: \_\_\_\_\_  
 Correct pH: Yes No  
 Preservative Lot#: 21-6/21-7  
 Date/Time/Init for preservative:

Labwork ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Method #	Reporting limit	Misc. sample info	Any other notes	Comments
AF68747	WAF-29	7/17/23	1008	WAK ML	1	P	G	GW	2	7470	RL=0.2 ug/L			x
AF68731	WAF-15		1115											
AF68723	WAF-12		1300											
AF68724	WAF-12 DUP		1305											
AF68746	WAF-28		1424											
AF68726	WAF-14	7/13/23	1416											
AF68725	WAF-14 DUP		1421											
AF68730	WAF-14C		1001											
AF68729	WAF-14B		1124											
AF68728	WAF-14A		1332											

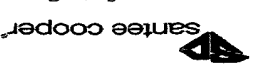
Contract Lab Info. TR-SAV / 31 / 23  
 Contract Lab Due Date (Lab Only). 7 / 31 / 23  
 Send report to [lcwillia@santecooper.com](mailto:lcwillia@santecooper.com) & [sbrown@santecooper.com](mailto:sbrown@santecooper.com)

Customer Email/Report Recipient: lcwillia@santecooper.com  
 Date Results Needed by: \_\_\_\_\_  
 Project/Task/Unit #: 125915 / JM02-09-G01-1 / 36500  
 Rerun request for any flagged QC:  Yes  No

Santee Cooper  
 One Riverwood Drive  
 Moncks Corner, SC 29461  
 Phone: (843)761-8000 Ext. 5148  
 Fax: (843)761-4175

Analysis Group

### Chain of Custody



Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, OIL-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)  
 Preservative code- 1<4°C, 2-HNO<sub>3</sub>, 3-H<sub>2</sub>SO<sub>4</sub>, 4-HCl, 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6-Other (Specify)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

<input type="checkbox"/> Cr <input type="checkbox"/> Co <input type="checkbox"/> Cd <input type="checkbox"/> Ca <input type="checkbox"/> Be <input type="checkbox"/> Ba <input type="checkbox"/> B <input type="checkbox"/> As <input type="checkbox"/> Al <input type="checkbox"/> Ag	<input type="checkbox"/> Pb <input type="checkbox"/> Ni <input type="checkbox"/> Na <input type="checkbox"/> Mo <input type="checkbox"/> Mn <input type="checkbox"/> Mg <input type="checkbox"/> Li <input type="checkbox"/> K <input type="checkbox"/> Fe <input type="checkbox"/> Cu <input type="checkbox"/> Sb	<input type="checkbox"/> CrVI <input type="checkbox"/> Hg <input type="checkbox"/> Zn <input type="checkbox"/> V <input type="checkbox"/> Ti <input type="checkbox"/> Ti <input type="checkbox"/> Sr <input type="checkbox"/> Sn <input type="checkbox"/> Se <input type="checkbox"/> Sb
<b>Nutrients</b> <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> THM/HAA <input type="checkbox"/> TP/PO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Oil & Grease <input type="checkbox"/> VOC <input type="checkbox"/> BTEX	<input type="checkbox"/> SO4 <input type="checkbox"/> NO3 <input type="checkbox"/> Br <input type="checkbox"/> NO2 <input type="checkbox"/> Cl <input type="checkbox"/> Total Conform <input type="checkbox"/> E. Coli <input type="checkbox"/> Oil & Grease	<input type="checkbox"/> PCB <input type="checkbox"/> Rad 228 <input type="checkbox"/> Rad 226 <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Dissolved As <input type="checkbox"/> pH <input type="checkbox"/> Total Conform <input type="checkbox"/> E. Coli <input type="checkbox"/> Oil & Grease <input type="checkbox"/> VOC <input type="checkbox"/> THM/HAA <input type="checkbox"/> Naphthalene <input type="checkbox"/> BTEX
<b>Gypsum</b> <input type="checkbox"/> Wallboard <input type="checkbox"/> Sulfur <input type="checkbox"/> Particle Size <input type="checkbox"/> Chlorides <input type="checkbox"/> pH <input type="checkbox"/> Sulfates <input type="checkbox"/> % Moisture <input type="checkbox"/> Furry (CASO4) <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Total metals <input type="checkbox"/> TOC <input type="checkbox"/> AMV <input type="checkbox"/> (Gypsum/All below)	<input type="checkbox"/> Particulate Matter <input type="checkbox"/> Fineness <input type="checkbox"/> HGI <input type="checkbox"/> XRF Scan <input type="checkbox"/> CHN <input type="checkbox"/> Volatile Matter <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUS <input type="checkbox"/> Ash <input type="checkbox"/> % Moisture <input type="checkbox"/> Ultimate	<input type="checkbox"/> Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LCI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral <input type="checkbox"/> Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS
<input type="checkbox"/> COVER <input type="checkbox"/> TX <input type="checkbox"/> HD <input type="checkbox"/> (A), (A), (A), (A), (A), (A) <input type="checkbox"/> Methods in oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Used Oil <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> FT <input type="checkbox"/> Measure Strength <input type="checkbox"/> Acidity <input type="checkbox"/> Color <input type="checkbox"/> Viscosity <input type="checkbox"/> Frank Oil Qual <b>OIL</b>	<input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUS <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LCI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral <input type="checkbox"/> Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <b>NPDES</b> <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS

Sample Receiving (Internal Use Only): TEMP (°C): _____ Initial: _____ Correct pH: Yes No Preservative Lot#: 21.6/21.7 Date/Time/Unit for preservative:	Requisitioned by: <i>Aggr...</i> Employee#: 35594 Date: 7/19/23 Time: 1300 Received by: <i>[Signature]</i> Employee#: _____ Date: 7/20/23 Time: 0945	Requisitioned by: _____ Employee#: _____ Date: _____ Time: _____ Received by: _____ Employee#: _____ Date: _____ Time: _____
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Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass/G/Plastic/P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Method #	Reporting limit	Misc. sample info	Any other notes
AF 68751	WLF-A1-2	7/10/23	1000	WJK	1	P	G	Gw	2	7470	RL=0.2 ug/L	X	Hg
AF 68750	WLF-A1-2		1118										
AF 68755	WLF-A1-5		1259										
AF 68733	WAF-17		1410										
AF 68734	WAF-17 Dup		1415										
AF 68757	WLF-A2-2	7/11/23	6951										
AF 68749	WBW-A1-1		1052										

Contract Lab Due Date (Lab Only) 7/31/23 Send report to lwwillia@santecooper.com & slbrown@santecooper.com

Customer Email/Report Recipient: lwwillia@santecooper.com

Date Results Needed by: \_\_\_\_\_

Project/Task/Unit #: 125915 / TM02-08-G01.1 / 36500

Rerun request for any flagged QC:  Yes  No

Analysis Group: \_\_\_\_\_

Phone: (843) 761-8000 Ext. 5148  
 Fax: (843) 761-4175  
 One Riverwood Drive  
 Moncks Corner, SC 29461  
 Santee Cooper

**Chain of Custody**

santee cooper



# Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-237959-1

**Login Number: 237959**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Johnson, Corey M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: South Carolina Public Service Authority  
Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

## Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
South Carolina	State	98001	06-30-23 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

## **Field Data Sheets**

(Note: color coding is to assist with stabilization of the field parameters prior to sample collection)

**Winyah Generating Station**  
**Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-1	30.04	9.72	8.5-18.5	12/7/2022	1007	21.87

Drawdown: 9.84 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
930	20.06	4.89	223	1000	6.7	2.99
935	20.75	4.95	154	966	6.3	0.95
940	21.05	5.02	86	928	4.6	1.01
945	21.24	5.06	56	901	4	0.84
950	21.43	5.08	40	881	4	0.71
955	21.53	5.09	33	875	2.4	0.61
958	21.51	5.11	27	868	1.1	0.56
1001	21.63	5.11	25	863	0	0.5
1004	21.69	5.13	20	859	0	0.5
1007	21.75	5.13	17	852	0	0.49

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228

Cl, F, SO4, TDS

Comments/Conditions:

DUP @ 1012

Samples were collected by Justin Kirk and

**Winyah Generating Station**  
**Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-2	27.56	7.32	8.5-18.5	12/6/2022	1434	22.31

Drawdown: 7.48 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1409	22.9	6.08	-7	1140	6.9	1.19
1414	22	5.99	-8	1160	4.1	0.41
1419	21.76	5.96	-11	1160	5.5	0.34
1424	21.86	5.94	-14	1160	4.5	0.29
1429	21.83	5.92	-17	1160	4.9	0.28
1434	21.72	5.92	-20	1150	4.9	0.27

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As  
 Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Justin Kirk and

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 1	29.44	6.36	4- 24	2/14/2023	1233	25.17

Drawdown: 6.44 depth to GW (ft)

Ferric Iron: 2.83 mg/L

Ferrous Iron: 2.71 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1159	24.37	4.31	114	173	0	3.36
1204	20.78	4.08	108	153	0	1.2
1209	20.97	4.17	94	146	0	1.08
1214	20.99	4.23	84	143	0	0.88
1219	21.08	4.23	79	141	0	0.83
1224	21.14	4.31	71	139	0	0.81
1227	21.06	4.41	64	138	0	0.78
1230	20.95	4.38	64	137	0	0.75
1233	21.01	4.43	60	136	0	0.72

Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WBW - 1	31.97	9.04	7- 17	2/14/2023	1351	19.81

Drawdown: 9.09 depth to GW (ft)

Ferric Iron: 0.63 mg/L

Ferrous Iron: 0.09 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1314	22	4.46	111	56	37.2	4.97
1319	20.8	4.08	138	57	26.6	3.91
1324	20.45	3.96	151	57	28.3	3.78
1329	20.45	3.96	155	57	32.1	3.61
1334	20.35	3.97	161	56	25.2	3.39
1339	20.31	3.95	167	57	13.6	3.4
1342	20.26	3.96	170	57	15.8	3.4
1345	20.23	3.95	173	56	13.1	3.46
1348	20.16	3.96	176	56	14.2	3.42
1351	20.07	3.92	181	56	16.5	3.48

Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 9	28.04	9.95	9- 19	2/27/2023	1247	22.24

Drawdown: 9.99 depth to GW (ft)

Ferric Iron: +++ mg/L

Ferrous Iron: +++ mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1222	22.26	6.47	-5	1330	19.2	1.61
1227	22.24	6.33	-4	1320	16.7	1.15
1232	22.37	6.34	-11	1310	13.4	0.96
1237	22.57	6.33	-18	1310	10.4	0.9
1242	22.83	6.3	-20	1310	9.5	0.84
1247	23.08	6.34	-27	1310	9.7	0.78

Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis



**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 17	26.88	6.88	9- 19	3/8/2023	1009	21.86

Drawdown: 6.93 depth to GW (ft)

Ferric Iron: 1.53 mg/L

Ferrous Iron: 1.49 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
938	20.85	6.13	4	1790	27.1	1.81
943	20.83	6.25	-55	1800	26.6	1.09
948	20.9	6.27	-63	1790	24	0.89
953	20.94	6.33	-71	1790	16.1	0.83
958	21.06	6.33	-74	1790	18.6	0.8
1003	21.2	6.34	-78	1790	16.5	0.75
1006	21.32	6.34	-80	1790	7.7	0.75
1009	21.45	6.34	-80	1790	6.7	0.78

Comments/Conditions:

DUP @

1014

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 18	31.04	10.72	7.5-17.5	3/9/2023	1207	21.25

Drawdown: 10.95 depth to GW (ft)

Ferric Iron: 0.79 mg/L

Ferrous Iron: 0.53 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1147	23.19	5.48	182	646	65.1	1.63
1152	22.37	5.45	186	650	22.5	1.27
1157	22.31	5.46	178	640	29.5	1.2
1202	22.74	5.47	175	636	15.5	1.09
1207	22.79	5.47	172	637	1.8	1.02

Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 19	43.39	23.7	14-24	3/7/2023	1451	26.9

Drawdown: 24.06 depth to GW (ft)

Ferric Iron: +++ mg/L

Ferrous Iron: +++ mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1411	30.96	6.25	13	1740	0	1.44
1416	29.65	6.25	-15	1850	800	0.88
1421	29.27	6.26	-18	1860	800	0.83
1426	28.79	6.25	-15	2200	559	0.9
1431	28.65	6.27	-25	2250	505	0.85
1436	28.67	6.33	-33	2260	461	0.74
1439	28.7	6.38	-39	2260	409	0.77
1442	28.7	6.44	-43	2270	405	0.78
1445	28.71	6.48	-50	2270	391	0.73
1448	28.72	6.49	-54	2270	374	0.7
1451	28.73	6.49	-54	2270	358	0.72

Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station**  
**Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-1	30.04	9.57	8.5-18.5	3/1/2023	1022	21.87

Drawdown: 9.64 depth to GW (ft)

Ferric Iron: +++ mg/L

Ferrous Iron: +++ mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
948	21.15	4.61	189	1050	180	1.62
953	21.7	4.59	202	1040	71.9	1.19
958	21.98	4.61	199	1040	28.3	1.04
1003	22.11	4.67	187	1020	14.3	0.98
1008	22.24	4.68	178	1020	14.9	0.96
1013	22.29	4.75	165	1010	11	1.27
1016	22.45	4.75	159	1000	10.6	0.9
1019	22.62	4.76	157	999	9.7	0.84
1022	22.73	4.77	154	995	9.5	0.85

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As  
 Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

DUP @ No DUP for full site

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station**  
**Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-2	27.56	7.28	8.5-18.5	3/1/2023	1145	22.33

Drawdown: 7.39 depth to GW (ft)

Ferric Iron: +++ mg/L

Ferrous Iron: +++ mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1114	22.6	5.96	76	1030	11.2	1.3
1119	22.91	5.87	49	1040	6.4	1.09
1124	22.84	5.92	36	1040	7.2	0.88
1129	23.04	5.96	27	1040	7.1	0.83
1134	23.3	5.98	21	1030	6.8	0.74
1139	23.54	6.03	17	1070	7.5	0.71
1142	23.7	6.02	14	1070	7.7	0.7
1145	23.95	6.01	12	1070	7.7	0.69

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As  
 Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

**Winyah Generating Station**  
**Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-6	35.14	14.37	14-24	2/16/2023	1407	27.42

Drawdown: 14.39 depth to GW (ft)

Ferric Iron: 0.28 mg/L

Ferrous Iron: 0.24 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1339	22.68	6.57	46	852	0	1.83
1344	23.12	6.39	35	841	0	1.07
1349	23.03	6.29	30	836	0	0.85
1354	23.74	5.98	41	831	0	0.78
1359	23.48	5.98	34	833	0	0.73
1404	23.35	5.98	27	826	0	0.66
1407	23.56	5.99	24	821	0	0.63

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As  
 Cl, F, SO4, TDS

Ra 226/228

Comments/Conditions:

DUP @ 1412

Samples were collected by Melanie Goings and Zach McHenry

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 1	29.44	6.93	4- 24	6/27/2023	1126	25.12

Drawdown: 7.03 depth to GW (ft)

Ferric Iron: 2.05 mg/L

Ferrous Iron: 2.05 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1053	30.75	4.35	185	103	4.3	1.62
1058	30.14	4.34	118	106	0	0.97
1103	29.81	4.41	93	104	0	0.87
1108	29.84	4.43	81	105	0	0.82
1113	29.98	4.45	71	104	0	0.78
1118	30.07	4.47	65	104	0	0.74
1123	30.26	4.5	59	104	0	0.72
1126	30.4	4.51	56	103	0.1	0.7

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WBW - 1	31.97	9.13	7- 17	6/27/2023	1015	19.8

Drawdown: 9.25 depth to GW (ft)

Ferric Iron: 0.1 mg/L

Ferrous Iron: 0.06 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
939	22.69	4.05	231	73	19.1	6.24
944	23.27	3.98	273	74	17.3	5.36
949	23.85	3.96	289	76	3.2	4.84
954	24.45	3.96	301	76	0	4.51
959	24.95	3.96	308	75	0	4.3
1004	25.49	3.96	315	75	0	4.13
1009	25.99	3.93	324	73	0	3.89
1012	26.26	3.93	328	74	0	3.78
1015	26.51	3.94	331	73	0	3.76

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis



**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 9	28.04	10.5	9- 19	6/29/2023	1048	22.24

Drawdown: 10.54 depth to GW (ft)

Ferric Iron: +++ mg/L

Ferrous Iron: +++ mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1023	25.21	6.02	-71	1540	31.1	1.27
1028	25.09	6.05	-98	1550	12.9	0.93
1033	25.47	6.08	-118	1560	4.3	0.81
1038	25.87	6.08	-125	1560	0.9	0.78
1043	26.47	6.1	-131	1560	2.4	0.75
1048	26.52	6.11	-122	1590	3.8	0.74

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 17	26.88	6.91	9- 19	7/10/2023	1410	21.85

Drawdown: 6.94 depth to GW (ft)

Ferric Iron: 1.36 mg/L

Ferrous Iron: mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1337	27.18	6.36	-45	1510	0.2	1.2
1342	26.45	6.42	-72	1630	0	0.79
1347	26.01	6.39	-77	1650	2.5	0.79
1352	25.79	6.38	-87	1650	4.9	0.69
1357	25.57	6.38	-94	1650	5.4	0.67
1402	25.45	6.36	-100	1660	5.4	0.65
1407	25.41	6.34	-105	1660	5.7	0.65
1410	25.36	6.33	-108	1660	6.2	0.65

Comments/Conditions:

DUP @

1415

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 18	31.04	11.26	7.5-17.5	7/5/2023	935	21.23

Drawdown: 11.53 depth to GW (ft)  
 Ferric Iron: 0.91 mg/L  
 Ferrous Iron: 0.84 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
920	21.36	5.14	157	713	17.3	3.16
925	22.06	5.21	158	682	20.5	1.49
930	22.61	5.26	155	674	8.4	1.57
935	23.04	5.28	151	685	2.6	1.46
940						
945						
950						

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station  
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 19	43.39	23.31	14-24	7/6/2023	1121	26.87

Drawdown: 23.86 depth to GW (ft)

Ferric Iron: 2.46 mg/L

Ferrous Iron: 2.43 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1045	25.41	6.26	-9	2630	39.4	1.13
1050	25.89	6.38	-73	2900	17.9	0.95
1055	26.51	6.41	-97	3010	13.3	0.84
1100	27.25	6.43	-110	2990	7.2	0.76
1105	27.83	6.44	-119	2990	4.8	0.73
1110	28.22	6.46	-131	2950	5.1	0.68
1115	28.49	6.47	-140	2940	4.9	0.66
1118	28.55	6.47	-144	2940	4	0.65
1121	28.84	6.48	-147	2940	4.3	0.64

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station  
Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-1	30.04	10.33	8.5-18.5	7/5/2023	1139	21.88

Drawdown: 10.37 depth to GW (ft)

Ferric Iron: 1.58 mg/L

Ferrous Iron: 1.47 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1114	26.12	5.62	-13	377	0	1.19
1119	26.64	5.51	-39	375	0	0.86
1124	26	5.51	-50	377	0	0.77
1129	25.63	5.51	-56	380	0	0.74
1134	26.02	5.51	-61	379	1	0.71
1139	26.31	5.52	-64	375	2.1	0.68

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As  
Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

DUP @ No DUP for full site

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station**  
**Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-2	27.56	7.72	8.5-18.5	7/12/2023	951	22.31

Drawdown: 7.93 depth to GW (ft)

Ferric Iron: +++ mg/L

Ferrous Iron: mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
918	22.83	5.48	50	1100	18.2	1.69
923	23.15	5.63	13	1190	10.5	0.98
928	23.17	5.67	-12	1200	7.1	0.86
933	23.23	5.68	-31	1190	6.1	0.81
938	23.28	5.68	-43	1190	5.8	0.78
943	23.32	5.67	-52	1190	5.3	0.75
948	23.4	5.68	-59	1190	5.2	0.73
951	23.43	5.68	-62	1190	5	0.72

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As  
 Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Winyah Generating Station  
 Area 2 Class 3 Landfill Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WLF-A2-6	35.14	15.12	14-24	7/6/2023	947	27.41

Drawdown: 15.16 depth to GW (ft)

Ferric Iron: 0.44 mg/L

Ferrous Iron: 0.4 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
922	22.18	6.13	-43	1130	9.8	1.38
927	22.6	6.18	-77	1100	8.3	1.06
932	27.89	6.2	-87	1070	5	0.97
937	23.16	6.21	-92	1070	4.9	0.91
942	23.4	6.21	-97	1050	4.9	0.85
947	23.68	6.21	-100	1040	4.6	0.84



CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As, Cl, F, SO4, TDS

Ra 226/228

Comments/Conditions:

DUP @ 952

Samples were collected by Justin Kirk and Marvin Lewis

## **Appendix C – Alternate Source Demonstration**

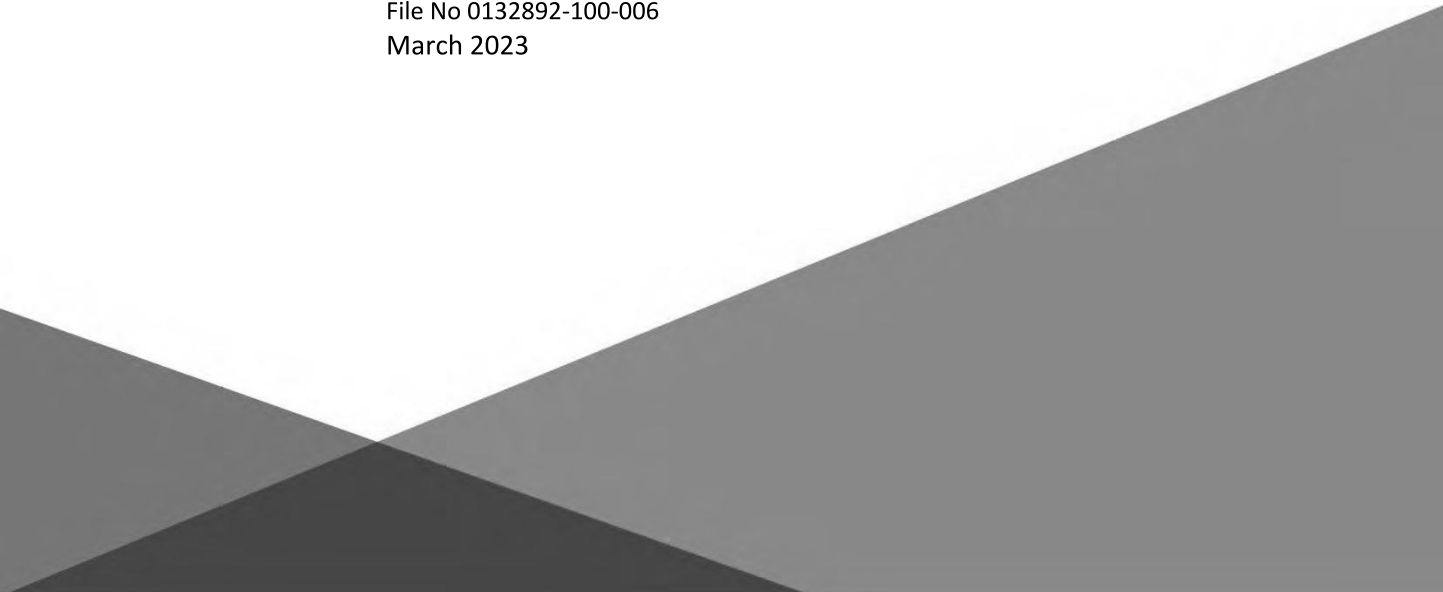


**REPORT ON  
ALTERNATE SOURCE DEMONSTRATION  
WINYAH GENERATING STATION  
CLASS 3 LANDFILL AREA 2  
GEORGETOWN, SOUTH CAROLINA**

by Haley & Aldrich, Inc.  
Greenville, South Carolina

for South Carolina Public Service Authority (Santee Cooper)  
Moncks Corner, South Carolina

File No 0132892-100-006  
March 2023



## Certification Page

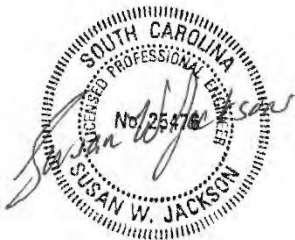
**SANTEE COOPER  
WINYAH GENERATING STATION  
CLASS 3 LANDFILL AREA 2  
APPENDIX III SSI ALTERNATE SOURCE DEMONSTRATION**

Pursuant to 40 CFR §257.94(e)(2), Haley & Aldrich, Inc., on behalf of Santee Cooper, conducted an alternate source demonstration to substantiate that a source other than the Class 3 Landfill Area 2 caused the statistically significant increase (SSI) over background identified during detection monitoring. I certify that this report and all attachments were prepared by me or under my direct supervision. I am a professional engineer who is registered in the State of South Carolina.

This certification and the underlying data support the conclusion that a source other than the Class 3 Landfill Area 2 is the cause of the SSI over background levels for Appendix III constituents identified during detection monitoring of this unit.

The information contained in this evaluation is, to the best of my knowledge, true, accurate, and complete.

**HALEY & ALDRICH, INC.**



Susan Jackson, P.E.  
South Carolina Professional Engineer  
Registration Number 25476

March 30, 2023

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# 1. Introduction

Santee Cooper is the owner and operator of Winyah Generating Station (WGS, or Site), which consists of four coal-fired generating units and associated ancillary equipment, including coal combustion residual (CCR) impoundments and landfills. WGS is located approximately 10 miles from the Atlantic Ocean, between Pennyroyal Creek and Turkey Creek in Georgetown, South Carolina (Figure 1). WGS is located within the Lower Coastal Plain of the Atlantic Coastal Plain physiographic province in South Carolina, and the Site and surrounding area are relatively flat, with natural ground surface elevations between approximately 15 and 30 feet above mean sea level (MSL).

The WGS Class 3 Landfill Area 2 (Landfill Area 2, or Landfill) was constructed within portions of the footprint of former Ash Pond A, which was closed by removal in accordance with state requirements (Figure 2). Nine independent samples for determination of background and downgradient levels were collected and analyzed prior to placing waste in the new Class 3 Landfill Area 2. First receipt of waste into Landfill Area 2 was on March 28, 2022. The initial detection monitoring sampling event was conducted in July 2022, with the associated analytical data validated on October 5, 2022. The statistical analysis was completed by Haley & Aldrich, Inc. (Haley & Aldrich) on December 30, 2022, pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94.

The statistical evaluation of Appendix III constituents detected in groundwater downgradient of the Class 3 Landfill resulted in statistically significant increases (SSIs) of Appendix III constituents, including boron, calcium, chloride, sulfate, and total dissolved solids (TDS) in monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6, and fluoride in monitoring wells WAP-19 and WLF-A2-6. This result was not unexpected because of the co-location of Landfill Area 2 and the former WGS Ash Pond A (Figure 2) and the adjacency to WGS Ash Pond B, both of which are undergoing implementation of the corrective action program in accordance with §257.98(a)(2).

This Alternate Source Demonstration (ASD) demonstrates that WGS Ash Ponds A and B are the sources of the SSIs of Appendix III constituents and that the new Landfill Area 2 is not the source. Elevated levels of detected Appendix III and IV CCR groundwater constituents were identified downgradient of Landfill Area 2 prior to the placement of CCR in the Landfill. This ASD considers the construction and operations of Landfill Area 2, and the Site's hydrogeology, groundwater, and soil analytical data prior to the first receipt of waste.

Haley & Aldrich was retained by Santee Cooper to conduct an ASD to determine if a source other than the Landfill Area 2 caused the SSIs. As presented in the sections that follow, findings of this ASD support the conclusion that the SSIs resulting from the statistical analysis of the July 2022 monitoring event were the result of a physical alternative source, specifically the WGS Ash Ponds A and B. Furthermore, the ASD demonstrates that Landfill Area 2 is currently not a potential contributing source of the SSIs.

## 1.1 SCOPE AND OBJECTIVE

The objective of this ASD is to present Site-specific information, along with a technical evaluation, to document that the newly constructed Class 3 Landfill Area 2 is not responsible for the current concentrations of Appendix III constituents identified in downgradient monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6. Furthermore, even though Landfill Area 2 is in detection monitoring and the focus of this ASD is on Appendix III SSIs, this ASD also presents Site-specific

information and data demonstrating that arsenic, lithium, and molybdenum were previously detected above the groundwater protection standard (GWPS) in wells used for monitoring both the Landfill Area 2 and Ash Pond A, as well as in monitoring wells for Ash Pond B, prior to the receipt of waste in Landfill Area 2.

## 1.2 CCR RULE AND ASD REQUIREMENTS

The U.S. Environmental Protection Agency (USEPA) regulations regarding detection monitoring programs for CCR units, including landfills and surface impoundments, provide owners and operators with the option to conduct an ASD when an Appendix III constituent is identified as an SSI (§257.94(e)(2)).

According to the Rule, an owner or operator may “demonstrate that a source other than the CCR unit caused the SSI over background levels for a constituent or that the SSI resulted from an error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer [...].”

In the absence of South Carolina-specific regulatory requirements for landfill ASDs, the *North Carolina Solid Waste Section Guidelines for Alternate Source Demonstration Submittals for Solid Waste Management Facilities* (NCDEQ, 2017) was used as a reference. This guidance document defines six lines of evidence that an owner/operator could pursue for an ASD, which are listed below; it also requires an ASD to address the first three lines of evidence (items 1 through 3) at a minimum. The last three lines of evidence (items 4 through 6) may also be used to support the first three lines of evidence.

1. An alternate source exists;
2. A hydraulic connection exists between the alternative source and the groundwater well with the statistically significant increase;
3. Constituent(s) (or precursor constituents) are present at the alternative source or along the flow path from the alternative source prior to possible release from the unit;
4. The relative concentration and distribution of constituents in the zone of contamination are more strongly linked to the alternative source than to the unit when the fate and transport characteristics of the constituents are considered;
5. The concentration observed in groundwater could not have resulted from the unit, given the waste constituents and concentrations in the unit leachate and wastes, and the site’s hydrogeologic conditions; and
6. Data supporting conclusions regarding the alternative source are historically consistent with hydrogeologic conditions and findings of the monitoring program.

Additionally, the USEPA has commented in Part A Determinations that to rebut monitoring data and analysis that resulted in an SSI, an ASD should be supported by site-specific facts and analytical data and should meet lines of evidence as outlined in the *EPA Solid Waste Disposal Facility Criteria Technical Manual* (USEPA, 1993) which is consistent with the lines of evidence presented above.

### 1.3 MONITORING WELL NETWORK FOR THE WGS LANDFILL AREA 2

The monitoring well network for Landfill Area 2 was installed prior to and during construction of Landfill Area 2 (Figure 2). The WGS Ash Ponds A and B are located essentially on an island, surrounded by the WGS Industrial Cooling Pond and associated intake and discharge canals, except for a small area of land connection near the WGS Unit 1 and 2 cooling tower. As such, the design of the Landfill Area 2 groundwater monitoring well network relied on pre-existing groundwater monitoring networks for WGS Ash Pond A. Specifically, the existing CCR groundwater monitoring network and Winyah's existing network required by the facility's National Pollutant Discharge Elimination System (NPDES) permit issued by South Carolina Department of Health and Environmental Control (SCDHEC), which requires groundwater monitoring wells for WGS Ash Ponds A and B, were considered because of their co-location.

The full monitoring well network for Landfill Area 2 includes two background monitoring wells (WBW-1 and WAP-1) which were already in use for groundwater monitoring of other WGS CCR units, including Ash Ponds A and B. The network currently includes seven downgradient monitoring wells, which surround Landfill Area 2. These include WAP-9, WAP-17, WAP-18, WAP 19, WLF-A2-1, WLF-A2-2, and WLF-A2-6. Four of these monitoring wells (WAP-9, WAP-17, WAP-18, and WAP-19) pre-existed the Landfill Area 2 and are currently used to monitor WGS Ash Pond A pursuant to the CCR Rule; in fact, WAP-9 has historically been used to monitor the WGS Ash Pond A since 1995, pursuant to SCDHEC requirements.

In accordance with § 257.94, groundwater monitoring wells were constructed, and baseline sampling of the groundwater monitoring well network was completed for the newly constructed Class 3 Landfill Area 2 in February 2022. Per baseline sampling requirements outlined in § 257.94(b), a minimum of eight independent sampling events were conducted at the new downgradient well (WLF-A2-6), and samples were analyzed for Appendix III and Appendix IV constituents prior to the initial receipt of waste. In fact, nine independent sampling events were conducted, including the sampling event which occurred in February 2022, prior to the initial receipt of waste on March 28, 2022.

Two groundwater monitoring wells (WLF-A2-1 and WLF-A2-2) were installed in December 2021 for the next phase of Landfill Area 2 construction. These were installed early enough to allow time to collect a minimum of eight independent baseline samples, which occurred on a monthly basis during 2022, prior to those new cells accepting the initial deposition of waste on January 27, 2023. In fact, 10 independent baseline samples were collected in 2022 for these two monitoring wells concluding in December 2022.

The downgradient monitoring wells for Landfill Area 2 are screened in the same hydrostratigraphic unit and monitor groundwater quality in the uppermost aquifer and most are primarily at the waste boundary.



## 2. Alternative Source Demonstration

Consistent with the CCR Rule and guidance documents, this ASD evaluates multiple lines of evidence to address the identified SSIs individually and collectively. The ASD activities performed by Haley & Aldrich included evaluations of prior Site conditions using Site-specific facts and data, hydrogeological considerations, and statistical evaluations. A technical engineering evaluation of the contents, construction, and operations of Landfill Area 2 was conducted to evaluate the potential that the newly constructed and modern landfill was a contributing source.

The findings of this ASD demonstrate that the SSIs identified are not related to a release from Landfill Area 2. Rather, the ASD evaluations show that the residual constituents in groundwater beneath the excavated WGS Ash Ponds A and B are the source of the SSIs of the Appendix III constituents. The findings of the ASD evaluations and the lines of evidence that support this determination are described below.

### 2.1 SITE HISTORY FOR THE WGS ASH PONDS A AND B AND LANDFILL AREA 2

This detailed summary of the Site history of the WGS Ash Ponds A and B and Landfill Area 2 was incorporated into the ASD evaluation because of its relevance in determining the source of the SSIs. As previously noted, the approximately 65-acre WGS Landfill Area 2 was constructed in a portion of the footprint of the excavated 90-acre Ash Pond A. Ash Ponds A and B are bounded by the Intake Canal to the north, the Industrial Cooling Pond to the east, and the Discharge Canal to the west and south, with a small connecting landmass at the northwest corner of Landfill Area 2/Ash Pond A. Ash Pond A is separated from Ash Pond B by an intermediate dike, which is generally aligned from west to east (Figure 2, Figures 3A through 3D, and Figures 4A through 4D).

Ash Ponds A and B were constructed in 1975 to serve as permitted industrial wastewater treatment ponds, and they were not lined, which was the industry standard practice at that time. As noted in the *Location Restriction Compliance Demonstration* (Geosyntec Consultants [Geosyntec], 2018), the bottom of Ash Pond A was estimated to be approximately 20 feet MSL (National Geodetic Vertical Datum of 1929 [NGVD 29]) in the central portion to less than 20 feet MSL NGVD 29 in the northeastern portion. The bottom of Ash Pond B was estimated to be approximately 19 feet MSL NGVD 29 across most of the pond. The seasonal high-water level at WAP9 was 21.46 feet NGVD (Geosyntec, 2018). Thus, neither pond met the requirements of § 257.60 for placement of CCR above the uppermost aquifer. Both Ash Ponds A and B received ash-slucied wastewater containing fly ash and bottom ash. Inflows of CCR waste and non-CCR wastewater ceased prior to the regulatory deadline of April 11, 2021. Ash Ponds A and B are undergoing closure-by-removal of CCR and removal of a pre-determined amount of subsurface soil in accordance with a State-approved closure plan.

Excavation of Ash Ponds A and B is in progress, with portions of Ash Pond A completed. SCDHEC verified closure of portions of Ash Pond A were completed pursuant to SCDHEC requirements prior to the construction of the landfill cells, based on the landfill design drawing shown in Appendix A (Geosyntec, 2021). The closure process involves removal of CCR and removal of a layer of underlying subsurface soil based on borings and analytical testing of the CCR and residual subsurface soil to determine the extent of excavation.

To prepare for construction of Landfill Area 2, fill material (soil sourced from permitted on-Site borrow pits) was placed to rebuild the subgrade and create the required separation from groundwater. Landfill

Area 2 construction commenced with cells 4 and 5 on July 30, 2021, with the installation of a 1-foot minimum clay liner (~56,000 cu yd). Groundwater monitoring well WLF-A2-6 was installed in March 2021 to establish a compliant monitoring network for baseline sampling (monthly) to be completed before December 2021. The sampling schedule for WLF-A2-6 was compressed because installation of this well had to wait until construction work in this specific area was completed due to Site access and logistics. Construction was completed on cells 4 and 5, comprising approximately 35 acres, on December 10, 2021. Construction was completed on the approximate 30 acres of cells 6 and 7 on December 8, 2022.

The Landfill Area 2 also received SCDHEC approval to operate on a cell-by-cell basis. Operating approvals were received for cells 4N, 4S, 5N, and 5S on December 20, 2021, and for cells 6N, 6S, 7N, and 7S on December 16, 2022. Currently, there are no plans to construct cells 8N or 8S.

First receipt of waste into the Landfill Area 2 occurred in cell 4S on March 28, 2022, followed by receipt of waste into cell 4N on April 5, 2022, 5N on June 8, 2022, 5S on June 12, 2022, 6N on January 27, 2023, and 6S and 7N on February 17, 2023 (Appendix A). No waste has been disposed in cell 7S as of the date of this report.

Detection monitoring commenced in July 2022 for Landfill Area 2. Of note at that time, CCR had not been placed in cells 6 and 7, and construction had only recently begun with installation of the 1-foot minimum clay liner (~50,000 cu yd) on May 30, 2022. The groundwater monitoring wells (WLF-A2-1 and WLF-A2-2) were installed in November 2021 for cells 6 and 7 to complete 8 monthly baseline samples before December 2022.

The total footprint of Landfill Area 2 is approximately 65 acres. At this time, Landfill Area 2 is operating and receiving waste, and no sections of the newly constructed landfill have been filled and capped. Ash contact stormwater and leachate are collected and collected and treated in the station's permitted wastewater system. Landfill Area 2 has a composite liner system with a leachate collection and removal system that meets the standards of §257.70.

Prior to placing CCR in the Landfill Area 2, groundwater samples were collected to establish baseline groundwater quality conditions that represent the condition of the groundwater prior to placement of CCR in the landfill and the landfill commencing operation. These independent samples were analyzed for Appendix III and Appendix IV constituents consistent with the Rule. Baseline sampling was completed in February 2022 prior to the initial receipt of CCR on March 28, 2022. Detection monitoring, as required by §257.94, was conducted at the next scheduled semi-annual sampling event in July 2022, and the analytical results were validated on October 5, 2022 by Santee Cooper.

As required by §257.93(h), Haley & Aldrich performed a statistical analysis of the Appendix III constituents detected in groundwater downgradient of Landfill Area 2 to evaluate the potential for SSIs of the Appendix III constituents to exist above background. Findings from the statistical evaluation identified that SSIs of the following Appendix III constituents were present at one or more downgradient wells: boron, calcium, chloride, sulfate, and TDS in monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6, and fluoride in monitoring wells WAP-19 and WLF-A2-6. (Haley & Aldrich, 2022a). In comparison, in 2018 during detection monitoring of Ash Pond A, SSIs for boron, calcium, chloride, fluoride, pH, sulfate, and TDS were identified in wells WAP-9, WAP-17, WAP-18, and WAP-19.

## 2.2 WGS ASH POND CONTENTS

The prior contents of WGS Ash Ponds A and B are discussed in this section because they are identified as the source of Appendix III and Appendix IV constituents in this ASD. WGS Ash Ponds A and B received both fly ash and bottom ash from the WGS coal-fired generating units from 1975 until CCR and non-CCR wastewater inflows ceased prior to the regulatory deadline of April 11, 2021. Throughout this period, ash was routinely removed from the unlined ponds for beneficial use. Bottom ash was excavated, screened, and removed from the ponds for use in the concrete block industry since the 1990s. Beginning in 2015, a mixture of predominantly fly ash and some bottom ash was excavated, screened, and removed for processing in an on-site SEFA STAR® unit. The STAR® unit uses a patented thermal beneficiation process to convert the CCR material into ultrafine ash, a quality product used by the concrete industry and in other industrial applications. The beneficial use program enabled closure-by-removal of WGS Ash Ponds A and B to be a viable option, with completion of ash removal from Ash Pond A by the end of March 2022.

Even with removal of the CCR and a layer of subsurface soils, there are measurable concentrations of metals in subsurface soil (Appendix B). Santee Cooper conducted extensive subsurface soil testing as a component of the WGS Ash Pond A State Closure Plan. The analytical results were submitted to SCDHEC for their review and approval for closure. The closure steps were as follows:

1. Receive SCDHEC approval on soil sample results from borings prior to soil removal;
2. Complete soil removal through excavation to the extents identified with soil sampling results;
3. Submit survey data to SCDHEC to demonstrate compliance with the excavation plan; and
4. Prepare and file a deed restriction (if necessary).

The underlying soil remaining after excavation and removal of approximately 9.1 inches (on average) of subsurface soil below the CCR had residual concentrations of metals as reported to SCDHEC (Appendix B). The pre-excavation borings and any confirmation soil sampling after removal of CCR demonstrated that CCR constituents will be removed to levels acceptable to SCDHEC and are protective of human health and the environment in conjunction with institutional controls, specifically a land use deed restriction. Even with removal of the CCR and a layer of subsurface soil, analytical results show measurable concentrations of multiple constituents below the level of the excavation including arsenic, boron, lithium, and molybdenum, among others (in other words, in the remaining subsurface soil). This included occasional samples that exceeded the pre-set target levels. Analytical testing from borings of the residual subsurface soils shows boron concentrations ranging from below detection to 49 milligrams per kilogram (mg/kg) in the location of cells 4 and 5, and from below detection to 36 mg/kg in cells 6 and 7 of Landfill Area 2, with the higher ranges typically being excavated. After review of residual subsurface soil analytical data and survey results, SCDHEC issued approval to complete State closure (not CCR Rule closure) of Ash Pond A in the location of Landfill Area 2 cells 4 and 5 on July 30, 2021 and cells 6 and 7 on March 27, 2022. Establishing a DHEC-approved excavation plan and soil removal still remains to be completed for the approximately 25-acre area of Ash Pond A outside of the landfill footprint and Ash Pond B at the time of this report.

## 2.3 WGS CLASS 3 LANDFILL AREA 2 CONTENTS

According to an email dated January 17, 2023, from Santee Cooper, since the first receipt of waste on March 28, 2022, through December 31, 2022, Landfill Area 2 received approximately 1,018,165 tons of

ponded ash directly from WGS Ash Ponds A and B. Ponded ash is typically a mixture of approximately 80 percent fly ash and 20 percent bottom ash. Landfill Area 2 also received 665 tons of non-specification gypsum.

## **2.4 WGS CLASS 3 LANDFILL AREA 2 CONSTRUCTION AND OPERATIONS**

WGS Landfill Area 2 is a permitted Class 3 Industrial Solid Waste Landfill (Permit #LF3-00042), which was designed, constructed, and is operated to meet requirements of the CCR Rule and is regulated under SCDHEC's Solid Waste Management regulations. Based on the construction, operations, and ongoing inspections of this new landfill as described in subsequent sections, it appears unlikely that there is a release at this time from the landfill which could be contributing to the SSIs of Appendix III or Appendix IV constituents.

Landfill Area 2 was designed and constructed to meet the location's restriction requirements in § 257.60 through § 257.64, including placement of waste with greater than five feet of separation from the seasonal high-water table and for unstable areas (Geosyntec, 2021). Landfill Area 2 was constructed with a composite liner system, a leachate collection and removal system, and a contact stormwater collection system. It was designed and constructed to prohibit the release of materials, including leachate, into the environment. Contact stormwater on open areas of the landfill is routed through the leachate collection system.

Throughout the construction process, Santee Cooper's licensed Professional Engineers (P.E.s) oversaw the construction to ensure it was completed in accordance with the permitted construction drawings, with a few limited exceptions previously approved by SCDHEC, which are described in the following paragraph. Additionally, construction quality assurance (CQA) was contracted to a third-party consultant, Insight Group, who performed industry-standard testing to ensure and certify construction was completed as designed and permitted. In the CQA reports for Landfill Area 2 cells 4 and 5 and cells 6 and 7, Insight Group concluded that in their professional judgment, Landfill Area 2 was constructed in accordance with the Project Plans, Project Technical Specifications, CQA Plan, and industry-accepted procedures and methodologies.

The elements of landfill construction verified by the CQA Plan included earthwork, the compacted clay liner, geosynthetic clay liner, geomembrane, geocomposite drainage layer, and the leachate transmission and transfer system. Exceptions from the original permit application and plan included a temporary leachate pond adjacent to the south side of Landfill Area 2 cells 4 and 5. This was eliminated with SCDHEC approval, and the leachate discharge pipe was reconfigured to discharge directly into the Industrial Cooling Pond Discharge Canal. The permanent leachate pond, which was originally to be located in the northeast corner of Ash Pond B, has also been eliminated from the project with SCDHEC approval. Instead, the landfill leachate, which includes CCR contact stormwater, will continue to discharge to the permitted Industrial Cooling Pond. The final exception was related to the interface shear strength testing for the geosynthetic clay liner. The initial internal shear testing performed by the manufacturer did not specifically show results that met the Project's Technical Specifications. The internal shear strength test results for both sets of cells were reviewed and accepted by the Design Engineer-of-Record (Geosyntec).

Santee Cooper oversees the operation of the landfill and conducts routine inspections. WGS personnel complete daily informal inspections and weekly formal inspections in accordance with standard engineering practices and § 257.84. The Landfill Operator-in-Charge works full time at WGS and is a certified Class 3 landfill manager authorized by the State of South Carolina. The first annual Landfill Area

2 inspection report completed by a Santee Cooper qualified civil engineer (Santee Cooper, 2022) concluded that Landfill Area 2 was “generally found in satisfactory condition.” The operating areas were found to be in satisfactory condition, and overall, the maintenance appeared adequate. Based on a review of the engineering data provided and observations made during the inspection, Landfill Area 2 appears to be structurally sound under static loading conditions. Inspection recommendations were to reseed the soil in some bare areas, lower the water elevations within the perimeter dikes, and make an effort to prevent stagnant ponding of runoff surface water when possible. In summary and as detailed below, the construction and operation records indicate a release from the newly constructed Landfill Area 2 is unlikely.

#### 2.4.1 Waste Separation from Groundwater

The CCR Rule under § 257.60(a) states that new CCR landfills “must be constructed with a base that is located no less than 1.52 meters (five feet) above the upper limit of the uppermost aquifer or must demonstrate that there will not be an intermittent, recurring, or sustained hydraulic connection between any portion of the base of the CCR unit and the upper most aquifer.” The *Location Restrictions Compliance Demonstration* (Geosyntec, 2021) reviewed the design and construction of Landfill Area 2 and reported that it complied with the requirements of § 257.60(a). As shown in the Geosyntec (2021) report, the groundwater elevations range from 21 feet MSL in the central portion of Landfill Area 2 to elevation 20 feet MSL around the north, east, and west portions of the Landfill Area 2 perimeter. Geosyntec’s comparative review of the engineering drawings “reveals that Landfill Area 2 is designed with a base that is located greater than 5 ft above the seasonal high-water table, with the exception of the “sumps” (*i.e.*, low points) of the landfill cells.” To address this location restriction, the sumps were equipped with a clay plug under the liner constructed beneath the base of the CCR unit which supplements the landfill composite liner system. This clay plug forms a hydraulic barrier to prevent intermittent, recurring, or sustained hydraulic connection between the sump areas and the uppermost aquifer (Geosyntec, 2021).

#### 2.4.2 Composite Liner and Leachate Collection and Removal System

The Landfill Area 2 liner system was designed and constructed to meet the design criteria requirements. The Design Engineer-of-Record P.E. certified that the design of the composite liner and the leachate collection and removal system meets the design criteria requirements of §257.70 (Geosyntec, 2017a). On October 27, 2017, Geosyntec’s P.E. certified the composite liner liquid flow rates through the lower component (geosynthetic clay layer) of the alternate composite liner for the unit and determined the liquid flow rate is no greater than through 2 feet of compacted soils with a hydraulic conductivity of  $1 \times 10^{-7}$  centimeters per second (cm/sec), and thus meets the requirement of § 257.70 (Geosyntec, 2017b).

In accordance with § 257.70(f), a liner construction certification was completed by a licensed P.E. for cells 4 and 5 and for cells 6 and 7. As stated in the certifications posted in Santee Cooper’s CCR website, the CQA Report documents that the WGS Landfill Area 2 liner system and leachate collection and removal system was constructed in accordance with the permit drawings and the permitted technical specifications and was certified by the Insight Group on December 10, 2021 and again on December 8, 2022.

Landfill Area 2 has a leachate collection system consisting of:

- a 2-foot-thick protective cover/drainage layer underlain with a geocomposite drainage layer;

- a leachate collection corridor composed of a perforated high-density polyethylene (HDPE) pipe surrounded by coarse aggregate and a filter; and
- a leachate sump at the low point that is filled with coarse aggregate surrounded by a filter and equipped with a riser pipe from which collected leachate will be withdrawn via pumps.

Leachate generated in the landfill flows in the geocomposite drainage layer component of the liner system either directly toward and into the leachate collection sumps, or to the leachate collection corridor where it is conveyed to the lined sump(s). Landfill Area 2 has leachate pipes that convey the collected leachate to the discharge point, which is the WGS Industrial Cooling Pond complex, a permitted wastewater treatment unit. These pumps operate on a routine basis to handle and discharge leachate and ash contact stormwater without any system failures.

### **2.4.3 Contact Stormwater Management**

Contact water is stormwater runoff that has been in contact with exposed CCR waste in the active areas of Landfill Area 2. Contact stormwater is managed through sequential management as ongoing lifts of waste are placed in a landfill area cell. Initially, with the elevation of waste below the elevation of the landfill perimeter, contact stormwater is routed to the on-site Industrial Cooling Pond via the Discharge Canal using temporary pumps. Once the landfill cell has been filled to an elevation that allows the permanent drainage system to be used, the temporary pumps will be removed. After the elevation of CCR waste is raised above the elevation of the landfill perimeter within each cell, a chimney drain decant structure is or will be installed. The chimney drain consists of a perforated vertical concrete riser pipe and is surrounded by attenuating basins. The attenuating basin is a depressed area around the decant structure intended to filter the contact water. The entire active area, including the attenuating basin, is graded to drain toward the decant structure. The vertical decant structure pipe connects to a horizontal connector pipe at the base, which conveys contact water by gravity through the leachate collection system to the WGS Industrial Cooling Pond Complex. (Geosyntec, Revised February 2017).

### **2.4.4 Operations and Inspections**

The Landfill Area 2 is formally inspected weekly by trained landfill operators under the supervision of the Landfill Operator-in-Charge. It is also inspected annually by licensed professional civil engineers in compliance with § 257.84(b) of the CCR Rule. From a compliance perspective, Landfill Area 2 is inspected monthly by SCDHEC. To date, no landfill violations have been issued based on regulatory inspections. Additional compliance inspections include routine fugitive dust inspections of the Site and weekly stormwater pollution prevention inspections by Santee Cooper employees.

The initial annual inspection was conducted September 27, 2022, by a Santee Cooper P.E. This initial inspection focused on the assessment of the stability and functionality of Landfill Area 2. The report noted it was found in satisfactory condition and safe for continued operation with no significant findings. It noted that at the time of the initial inspection, Landfill Area 2 contained approximately 487,332 cu yd of CCR, which was material sourced from the WGS Ash Ponds A and B. Additionally, a review of the weekly inspections indicated no major structural, maintenance, or operational problems. Based on field observations and discussion with WGS personnel, the operating procedures appear to be adequate. Pursuant to §257.80(b), the Fugitive Dust Control Plan indicates fugitive dust is controlled in landfilling areas prior to placement of final cover by interim cover or managing moisture levels. Plant staff make daily determinations to dispatch water trucks as necessary to minimize fugitive dust (Santee Cooper, 2018). Fugitive dust emission inspections are routinely conducted.

Based on a review of the inspection reports and construction documents and certifications, there is no evidence that Landfill Area 2 is a contributing source of the Appendix III SSIs identified with the initial detection monitoring of the Landfill Area 2, nor is it a contributing source to the Appendix IV statistically significant levels (SSLs) identified with the corrective action monitoring of WGS Ash Ponds A and B.

## **2.5 GROUNDWATER QUALITY – APPENDIX III AND APPENDIX IV CONSTITUENT EVALUATION**

The concentrations of Appendix III constituents detected in monitoring wells during baseline sampling prior to receiving CCR are similar to the historical sampling results obtained while Ash Ponds A and B were in operation and are also similar to the concentration of Appendix III constituents monitored after the first receipt of waste (Appendix D and Appendix E). Historically, there has been some variability in the data, which possibly reflects the ongoing and dynamic excavation and closure activities, including dewatering for Ash Ponds A and B with simultaneous construction activities in and around Landfill Area 2.

The summary of statistical evaluation of Appendix III constituents for the February 2022 semiannual sampling event for Landfill Area 2 and Ash Ponds A and B, prior to first placement of CCR in Landfill Area 2, is presented in Table 1, and the summary of the statistical evaluation of Appendix III constituents post-first receipt of CCR in Landfill Area 2 is presented in Table 2.

Similarly, the summary of statistical evaluation of Appendix IV constituents for Ash Ponds A and B wells prior to first placement of CCR in Landfill Area 2 is presented in Tables 3 and 4 respectively, and the summary of statistical evaluation of Appendix IV constituents for Ash Ponds A and B wells post-first receipt of CCR in Landfill Area 2 is presented in Tables 5 and 6, respectively. Even though this ASD is addressing Appendix III SSIs, Appendix IV data is presented to further support that the groundwater was impacted prior to both construction and first receipt of waste and to show the extent of the impact.

## **2.6 STATISTICAL EVALUATION**

On December 30, 2022, Haley & Aldrich conducted a statistical evaluation of the first semiannual detection monitoring event for the WGS Class 3 Landfill Area 2. The semiannual groundwater sampling event associated with the analytical data occurred approximately four months after the March 28, 2022, first receipt of CCR into the landfill. SSIs were identified for all Appendix III constituents in multiple wells, except for pH. This was not unexpected because the Class 3 Landfill Area 2 is located within the footprint of Ash Pond A.

The statistical evaluations used as part of this ASD were from Landfill Area 2, Ash Pond A, and Ash Pond B prior to the first placement of CCR in the Landfill Area 2 and post-CCR placement in the Landfill Area 2 (Haley & Aldrich 2021a; 2021b; 2021c, 2021d; 2022b; 2022c; 2022d; and 2022e). The results of the findings are presented in the following sections.

### **2.6.1 Appendix III Constituents Prior to Initial Receipt of Waste**

Using interwell evaluations, sample data from the ninth baseline sampling event in February 2022 for the newly constructed Landfill Area 2 was used to evaluate the groundwater quality prior to first receipt of waste. The downgradient monitoring wells were compared to their respective background concentrations. A sample concentration greater than the upper prediction limit (UPL) is considered to represent an SSI. The results of this groundwater detection monitoring statistical evaluation are provided in Table 1. SSIs were identified for the following Appendix III constituents:

- Boron at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Calcium at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Chloride at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Fluoride at WAP-19 and WLF-A2-6.
- Sulfate at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Total Dissolved Solids (TDS) at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.

Additionally, a hypothetical intrawell statistical evaluation was conducted using the prior eight baseline sampling events to establish background and assumes the ninth was a “detection event.” These results identified chloride as an SSI in WFL-A2-6, which potentially indicates natural variability in the groundwater quality during dynamic excavation and construction activities.

### **2.6.2 Appendix III Constituents After Initial Detection Monitoring (Post-First Receipt of CCR)**

Using interwell evaluations, sample data from the first initial detection groundwater sampling event for the downgradient monitoring wells were compared to their respective background concentrations. A sample concentration greater than the UPL is consider to represent an SSI. The results of the groundwater detection monitoring statistical evaluation are provided in Table 2. The same SSIs were identified for Appendix III constituents as the statistical analysis that was performed before CCR was placed into Landfill Area 2:

- Boron at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Calcium at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Chloride at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Fluoride at WAP-19 and WLF-A2-6.
- Sulfate at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.
- Total Dissolved Solids (TDS) at WAP-9, WAP-17, WAP-18, WAP-19, and WLF-A2-6.

As with the prior statistical evaluation, a hypothetical intrawell statistical evaluation was conducted, this time using the nine baseline data points. These results again identified chloride as an SSI in WFL-A2-6 and also identified TDS as an SSI WAP-9 and fluoride as an SSI in WAP-19. This could be due to ongoing variations in the groundwater aquifer. Because of ongoing activities for the closure of Ash Ponds A and B, the groundwater aquifer is not in equilibrium, and short-term increases in the Appendix III constituents may be observed. When an equilibrium condition is re-established, this should not be the case.

### **2.6.3 Appendix IV Constituents**

As stated earlier, Ash Ponds A and B are currently in corrective action pursuant to § 257.98 because of SSLs for arsenic, lithium, and molybdenum. The results from the February 2022 statistical evaluation of Appendix IV constituents in Ash Ponds A and B, prior to placement of CCR in Landfill Area 2, showed SSLs of Appendix IV constituents arsenic, lithium, and molybdenum in Ash Pond A and B wells.

- For the WGS Ash Pond A, SSLs were identified prior to receipt of waste for arsenic in wells WAP-9, WAP-17, WAP-18, and WAP-19, lithium in wells WAP-9, WAP-18, and WAP-19, and molybdenum in WAP-18 (Table 3).



- WGS Ash Pond B had SSLs prior to receipt of waste for arsenic and lithium in WAP-20.
- For WGS Ash Pond A, SSLs were again identified post receipt of waste for the summer 2022 sampling event for arsenic in wells WAP-9, WAP-17, WAP-18, and WAP-19, lithium in wells WAP-9, WAP-18, and WAP-19, and molybdenum in WAP-18.
- WGS Ash Pond B had SSLs post receipt of waste in the summer 2022 sampling event for arsenic in WAP-10 and WAP-20 and for lithium in WAP-20.
- Molybdenum was not identified at an SSL in Ash Pond B for the summer 2021 sampling event, or for either semiannual sampling event in 2022; however, it had been detected at an SSL at WAP-20 for the February 2020 and February 2021 semiannual sampling events, which is prior to the placement of CCR in the Landfill Area 2.

The pre-waste disposal statistical evaluation provides information on the groundwater quality prior to initial receipt of CCR into Landfill Area 2 and demonstrates SSLs existed prior to the first receipt of waste. The statistical evaluations from the July 2022 sampling events at Ash Ponds A and B, post-receipt of CCR in Landfill Area 2, have similar findings as the February 2022 sampling event (Table 4). This supports the premise that the CCR in Landfill Area 2 is not the source of CCR Appendix III and Appendix IV constituents in groundwater.

## 2.7 HYDROGEOLOGICAL EVALUATION

The hydrogeological evaluation for this ASD consisted of preparation of potentiometric contour maps and isoconcentration maps to evaluate the groundwater flow and distribution of Appendix III and Appendix IV constituents prior to and after the placement of CCR in Landfill Area 2.

The potentiometric maps for February 2021, July 2021, February 2022, and July 2022 for the Ash Ponds A and B, and Landfill Area 2 are presented as Figures 3A through 3D, and Figures 3E through 3H, respectively. The isoconcentration maps for Appendix III constituents (boron, calcium, chloride, sulfate, and TDS) for February 2021, July 2021, February 2022, and July 2022 are presented as Figures 4A through 4D. The isoconcentration maps for Appendix IV constituents of concern (arsenic, lithium, and molybdenum) for February 2021, July 2021, February 2022, and July 2022 are presented as Figures 5A through 5D. Hydrographs of water levels for the downgradient monitoring wells for Landfill Area 2 and Ash Ponds A and B are presented in Appendix C. Time-series plots of Appendix III constituents for the Landfill Area 2 are presented in Appendix D. Time-series plots of Appendix IV constituents of concern (arsenic, lithium, and molybdenum) for the Ash Pond A and B are presented in Appendix E.

The potentiometric maps are used to interpret groundwater flow direction and to calculate approximate flow rates (velocity) in feet per day (ft/day). The potentiometric map contour interpretations were refined between the 2021 and 2022 events because Santee Cooper began measuring the ponded surface water elevations in the unlined ash pond (WGS-PSE-1) during the 2022 semiannual monitoring events to supplement the groundwater elevation data (Figures 3C and 3D). The ponded surface water is assumed to recharge to the shallow groundwater because the pond is unlined and the depth to groundwater in the nearby groundwater monitoring wells (WAP-9 and WAP-10) has been measured relatively close to ground surface at approximately 5 to 10 feet below ground surface.

The potentiometric maps show that groundwater has consistently flowed in a radial pattern from the Ash Ponds A and B land mass toward the Intake Canal, Cooling Water Pond, and Discharge Canal. The potentiometric maps also show that groundwater is consistently interpreted to flow to the northwest across the existing Class 3 Landfill Area 2 active cells (cells 4N, 4S, 5N, and 5S; Appendix A) throughout the 2021 through 2022 groundwater monitoring period. Average linear velocity of groundwater flow in

the uppermost aquifer at Landfill Area 2 active cells area (cells 4N, 4S, 5N, and 5S; Appendix A) for the 2021 and 2022 reporting period was calculated and ranges from approximately 0.006 ft/day to 0.011 ft/day, or approximately 2 feet per year (ft/year) to 4 ft/year. This value was calculated using interpreted groundwater flow and hydraulic gradients calculated for the 2021 and 2022 semiannual sampling events (Figures 3A through 3D).

The distance between the northern edge of Landfill Area 2 and monitoring wells downgradient of the CCR placed to date in Landfill Area 2 (WAP-17, WLF-A2-6, and WAP-18) is approximately 50 feet. Based on the locations of WAP-17, WLF-A2-6, and WAP-18 and the location of the CCR in Landfill Area 2, and the range the groundwater flow rates observed for the Landfill Area 2, it is unlikely that a release directly from the landfill would have reached these downgradient monitoring wells during the first four months of landfill operations. Based on this information, a release of CCR constituents in the active cell areas (cells 4N, 4S, 5N, and 5S) would take between approximately 12 years to 600 years depending on the location of the release, if any were to occur (*i.e.*, a potential release near the edge of the unit or near the southeast corner of cell 5S, respectively). These estimates account for only the horizontal hydraulic flow rates and do not consider constituent adsorption resulting in plume retardation, which would increase the time of constituent migration to the downgradient monitoring wells.

The isoconcentration maps can be used to identify specific source areas of constituents and can be used to characterize the lateral spatial variation across a site. When isoconcentration maps are prepared for multiple groundwater sampling events, they can also be used to evaluate changes in plume geometry as the constituents migrate through the groundwater system. The February 2021, July 2021, and February 2022 isoconcentration maps for Appendix III constituents (Figure 4A through 4C) and Appendix IV constituents of concern arsenic, lithium, and molybdenum, show that plumes of the mapped constituents existed at the Site before waste was placed in Landfill Area 2. The subsequent isoconcentration maps from July 2022 (Figure 4D) demonstrate that the plume's geometry is relatively similar, and that the lateral distribution of Appendix III and Appendix IV constituents does not appear to be indicative of a point source release from Landfill Area 2.

Knowing that Ash Ponds A and B began operating in 1975, based on the hydrogeological evaluation, it is determined that during the operation period, there has been sufficient time for releases from Ash Ponds A and B to migrate to the downgradient monitoring wells. The groundwater flow velocity likely would have been greater during their operation due to the additional hydraulic head on the ponds. Conversely, one would conclude that there has not been enough time for a release from the new Landfill Area 2 to have reached the downgradient monitoring wells, even if that release occurred on the first day of operation on March 28, 2022.

### 3. Findings and Conclusions

Haley & Aldrich has concluded that Ash Pond A is the alternate source for the Appendix III SSLs detected downgradient of the new Class 3 Landfill Area 2, and that Landfill Area 2 is not a contributing source for the reasons summarized below. Consistent with § 257.94(e)(2), this written successful demonstration includes obtaining a certification from a qualified P.E. within 90 days of detecting an SSL above background levels. As a result, and consistent with § 257.94(e)(2), the Class 3 Landfill Area 2 at the WGS will remain in detection monitoring.

1. An alternative source exists.

Appendix III and IV groundwater constituent concentrations are known to exist in the groundwater prior to first receipt of waste in Landfill Area 2. There are measurable constituent concentrations of metals, including boron, in areas of the remaining subsurface soil after excavation of the Ash Pond A and prior to construction of Landfill Area 2. WGS Ash Pond A pre-dates the existence of Landfill Area 2. WGS Ash Ponds A and B are in a corrective action program pursuant to § 257.98, which includes removal of the source through excavation of the CCR and then monitored natural attenuation as outlined in the Remedy Selection Report (Haley & Aldrich, March 2022). SSLs continue to be identified for arsenic, lithium, and occasionally molybdenum in multiple wells.

2. A hydraulic connection exists between the alternative source and the groundwater well with the significant increase.

Many of the monitoring wells used to monitor shallow groundwater for Landfill Area 2 also monitor Ash Pond A, and the monitoring wells are screened in the same hydrostratigraphic unit as the existing wells that have historically monitored groundwater for Ash Ponds A and B since approximately 1995. Ash Ponds A and B are hydraulically connected to groundwater, as evidenced by the fact that the Ash Ponds were unlined and that impacts of Appendix III and IV constituents have been identified, whereas Landfill Area 2 was constructed to not be hydraulically connected to groundwater.

Additionally, based on the landfill design, construction, and location, there is not a known hydraulic connection between Landfill Area 2 and the uppermost surficial aquifer. Landfill Area 2 was designed and constructed to meet the locations restriction requirements in § 257.60 through § 257.64, including placement of waste with greater than 5 feet of separation from the seasonal high-water table. Landfill Area 2 was constructed with a composite liner system, a leachate collection and removal system, and a contact stormwater collection system, in accordance with state and federal regulations.

3. Constituent(s) (or precursor constituents) are present at the alternative source or along the flow path from the alternative source prior to possible release from the unit.

The pre-waste disposal statistical evaluation provides information on groundwater quality prior to initial receipt of CCR into Landfill Area 2 and demonstrates that SSLs existed prior the first receipt of waste. The statistical evaluations from the July 2022 sampling events at Ash Ponds A and B, post-receipt of CCR in the Landfill Area 2, have similar findings as the February 2022 sampling event (Table 4). This supports the premise that the CCR in the Landfill Area 2 is not the source of CCR Appendix III or Appendix IV constituents in groundwater.

4. Relative concentration and distribution of constituents in the zone of contamination are more strongly linked to the alternative source than to the unit when the fate and transport characteristics of the constituents are considered.

Isoconcentration maps show that groundwater plumes of Appendix III and Appendix IV constituents pre-existed the Landfill Area 2 and are migrating radially in the direction of groundwater flow toward the downgradient wells. The isoconcentration maps demonstrate that fluctuations in plume morphology are influenced by seasonal groundwater level fluctuations that result in varying concentrations of Appendix III and Appendix IV constituents. The February 2021, July 2021, and February 2022 isoconcentration maps of Appendix III constituents (Figure 4A through 4C) and Appendix IV constituents arsenic, lithium, and molybdenum (Figures 5A through 5C), show that plumes of the mapped constituents existed at the Site at or above the background value or GWPS before waste was placed in Landfill Area 2. The subsequent isoconcentration maps from July 2022 (Figures 4D and 5D) demonstrate that the plume's geometry is relatively similar, and that the lateral distribution of Appendix III and Appendix IV constituents does not appear to be indicative of a point source release from Landfill Area 2.

5. Concentration observed in groundwater could not have resulted from the unit given the waste constituents and concentrations in the unit leachate and wastes, and the Site's hydrogeologic conditions.

The distance between the initial placement of the waste to the closest groundwater monitoring well (WAP-17) varies; however, it is at least 30 feet. The average linear velocity of groundwater flow in the uppermost aquifer at Landfill Area 2 active cells area (cells 4N, 4S, 5N, and 5S; Appendix A) for the 2021 and 2022 reporting period was calculated and ranges from approximately 0.006 ft/day to 0.011 ft/day, or approximately 2 ft/year to 4 ft/year. Based on the location of the waste, the groundwater flow rate, and the location of the CCR in Landfill Area 2, it is unlikely that a release directly from the landfill would have culminated in the monitoring area of the well during the first year of landfill operations. A release of CCR constituents in the active cell areas (cells 4N, 4S, 5N, and 5S) would take between approximately 12 years to 600 years depending on the location of the release, if any were to occur (*i.e.*, a potential release near the edge of the unit or near the southeast corner of cell 5S, respectively).

The Landfill Area 2 design, construction, and operations, including the placement of CCR into the landfill, makes it unlikely that there was a release from this relatively new landfill which would have contributed to the constituent concentrations in the groundwater. The leachate and contact stormwater are captured and pumped to the discharge point without contact with the environment.

6. Data supporting conclusions regarding the alternative source are historically consistent with hydrogeologic conditions and findings of the monitoring program.

WGS Ash Ponds A and B contained CCR from 1975 until closure. The ponds were unlined, with a hydrogeologic connection to the uppermost aquifer. The 2018 initial detection monitoring event for Ash Pond A identified SSIs for the same Appendix III constituents as identified after placement of CCR into the Class 3 Landfill Area 2 in March 2022.

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## **TABLES**

TABLE 1
SUMMARY OF DETECTION MONITORING STATISTICAL EVALUATION
FEBRUARY 2022 MONITORING EVENT (PRIOR TO FIRST RECEIPT OF CCR)
WINYAH GENERATING STATION
CLASS 3 LANDFILL AREA - 2

Table with columns: Location Id, Frequency of Detection, Percent Non-Detects, Range of Non-Detect, Mean, 50th Percentile (Median), 95th Percentile, Maximum Detect, Variance, Standard Deviation, Coefficient of Variance, CCR MCr/PSL, Report Result Unit, Detection Exceedances (Y/N), Number of Detection Exceedances, Number of Non-Detection Exceedances, Outlier Presence, Outlier Removed, Trend, Distribution Well, February 2022 Concentration (mg/L), Detect?, Upper Prediction Limit (mg/L), Exceedance above Background at Individual Well (SS), Intrawell Analysis\* (Background Limit (Upper Prediction Limit) (mg/L), SSI).

Note: \*A preliminary intrawell statistical evaluation for detection monitoring constituents was completed for planning purposes.





TABLE 3 SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION FEBRUARY 2022 MONITORING EVENT WINDYASH POND A (PRIOR TO FIRST RECEIPT OF CCR AT CLASS 3 LANDFILL AREA 2)

Table with 22 columns: Location Id, Frequency of Detection, Percent Non-Detects, Range of Non-Detect, Mean, 50th Percentile (Median), 95th Percentile, Maximum Detect, Variance, Standard Deviation, Coefficient of Variance, CCR (MCL/SSL), Report Result Unit, Detection Exceedances (Y/N), Number of Detection Exceedances, Number of Non-Detection Exceedances, Outlier Presence, Outlier Removed, Trend, Distribution Well\*, February 2022 Concentration, Detect?, Upper Tolerance Limit, SSI, GWPS (Higher of MCL/SSL or Background Limit), Exceedance above Background at Individual Well.

TABLE 3  
SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION  
FEBRUARY 2022 MONITORING EVENT  
WINYAHSH POND A (PRIOR TO FIRST RECEIPT OF CCR AT CLASS 3 LANDFILL AREA 2)

Table with columns: Location Id, Frequency of Decision, Percent Non-Detects, Range of Non-Detect, Mean, 50th Percentile (Median), 95th Percentile, Maximum Detect, Variance, Standard Deviation, Coefficient of Variance, CCR (MCL/SSL), Report Result Unit, Detection Exceedances (Y/N), Number of Detection Exceedances, Number of Non-Detection Exceedances, Outlier Presence, Outlier Removed, Trend, Distribution Well, February 2022 Concentration, Detect?, Upper Tolerance Limit, SSI, CWPS (Higher of MCL/SSL or Background Limit), and Exceedance above Background at Individual Well.



TABLE 4  
SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION  
FEBRUARY 2022 MONITORING EVENT  
WINYAHASH POND B (PRIOR TO FIRST RECEIPT OF CCR AT CLASS 3 LANDFILL AREA 2)

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR (MCL/SSL)	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February/March 2022 Concentration	Detect?	95 LCL	Upper Tolerance Limit	SSI	CMWS (Higher of MCL/SSL or Background Limit)	Exceedance above Background at Individual Well	SSL	
																												Inter-well Analysis
WBW-1	0/17	100%	0.005-0.01	0.00971	0.01	0.01	0.01	0.00001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	Non-parametric			0.012	0.040			N	No	
WAP-01	1/17	94%	0.005-0.01	0.00988	0.01	0.01032	0.0116	0.00000168	0.001296	0.1323	0.04	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.012	0.040			N	No
WAP-10	17/17	0%	-	0.0262	0.0231	0.0358	0.0466	0.0000442	0.006648	0.2538	0.04	mg/L	Y	1	0	Yes	No	Stable	Non-parametric	0.029	0.164	Y	0.299	Y	Y	Y	N	Yes
WAP-20	17/17	0%	-	0.245	0.24	0.3612	0.406	0.007016	0.08376	0.3422	0.04	mg/L	Y	17	0	No	No	Stable	Normal	0.005	0.005	N				N	No	
WAP-21	0/17	100%	0.005-0.01	0.00971	0.01	0.01	0.01	0.00001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WBW-1	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.0002	0.0020			N	No	
WAP-01	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-10	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-20	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-21	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WBW-1	0/17	100%	0.005-0.05	0.0121	0.01	0.018	0.33	0.0000706	0.008852	0.817	0.1	mg/L	N	0	0	NA	NA	NA	NA				0.050	0.10			N	No
WAP-01	0/17	100%	0.005-0.01	0.00971	0.01	0.01	0.01	0.00001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-10	0/17	100%	0.005-0.01	0.00971	0.01	0.01	0.01	0.00001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-20	17/17	0%	-	0.19	0.13	0.3194	0.397	0.01096	0.1047	0.75	0.1	mg/L	Y	10	0	No	No	Stable	Normal	0.016	0.016	Y				N	No	
WAP-21	0/17	100%	0.005-0.05	0.0121	0.01	0.018	0.33	0.0000706	0.008852	0.817	0.1	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WBW-1	10/17	41%	0.4	2.93	4	4	4	2.45	1.565	0.538	5	pc/L	N	0	0	No	No	Decreasing	Non-parametric			5.97	6.0			N	No	
WAP-01	12/17	29%	4.4	3.45	4	5	5.97	2.57	1.59	0.4632	5	pc/L	Y	3	0	No	No	Decreasing	Non-parametric							N	No	
WAP-10	17/17	0%	-	5.37	5.63	6.00	6.01	1.75	1.333	0.3548	5	pc/L	Y	11	0	No	No	Stable	Normal	6.900	6.900	Y	4.71		N	No		
WAP-20	10/17	41%	4.4	3.39	4	5	5.97	2.45	1.565	0.538	5	pc/L	Y	1	0	Yes	No	Decreasing	Non-parametric	8.150	8.150	Y	1.68		N	No		
WAP-21	13/17	24%	4.4	3.39	4	5	5.97	2.45	1.565	0.538	5	pc/L	Y	2	0	No	No	Decreasing	Non-parametric	1.350	1.350	Y			N	No		
WBW-1	0/16	100%	0.005-0.02	0.0109	0.01	0.02	0.02	0.0001406	0.000975	0.3429	0.05	mg/L	N	0	0	NA	NA	NA	NA			0.020	0.050			N	No	
WAP-01	0/18	100%	0.005-0.02	0.0108	0.01	0.02	0.02	0.0001425	0.000975	0.3429	0.05	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-10	0/18	100%	0.005-0.02	0.0108	0.01	0.02	0.02	0.0001425	0.000975	0.3429	0.05	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-20	0/14	100%	0.005-0.02	0.0111	0.01	0.02	0.02	0.0001607	0.001009	0.3621	0.05	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-21	0/13	100%	0.005-0.02	0.0112	0.01	0.02	0.02	0.0001731	0.001016	0.371	0.05	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WBW-1	0/15	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	0.002			N	No	
WAP-01	0/15	100%	0.001-0.001	0.00094	0.001	0.001	0	0.00000654	0.0000234	0.2472	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-10	0/13	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	
WAP-20	1/14	93%	0.001-0.001	0.00104	0.001	0.00121	0.0016	2.271E-08	0.00001604	0.1538	0.002	mg/L	N	0	0	No	No	NA	Non-parametric	0.001	0.001					N	No	
WAP-21	0/13	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA							N	No	



TABLE 5  
SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION  
JULY 2022 MONITORING EVENT  
WINYAH ASH POND A (POST FIRST RECEIPT OF CCR AT CLASS 3 LANDFILL AREA 2)

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/MSL	Report Unit	Detection Exceedances (Y/N)	Number of Non-Detection Exceedances	Number of Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Width	July 2022 Concentration	Detect?	Upper Tolerance Limit	SSI	0.05% Higher of MCL/MSL or Background Limit)	Exceedance Above Individual Well	SSI
WARF-1	07/16	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.000200	N	0.0002	N	0.002			
WARF-01	07/16	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.000200	N	0.0002	N	0.002			
WARF-09	07/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.000200	N	0.000200	N	0.002			
WARF-17	07/15	100%	0.0002-0.00024	0.000203	0.000212	0.000212	1.007E-10	0.00001033	0.02096	0.02096	0.002	mg/L	N	0	0	MA	MA	MA	0.000200	N	0.000200	N	0.002			No
WARF-18	07/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.000200	N	0.000200	N	0.002			No
WARF-19	07/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.000200	N	0.000200	N	0.002			No
WARF-1	07/18	100%	0.005-0.05	0.0119	0.01	0.015	0.0000138	0.0000138	0.0000138	0.0000138	0.1	mg/L	N	0	0	MA	MA	MA	0.050	N	0.050	N	0.1			
WARF-01	07/18	100%	0.005-0.01	0.00972	0.01	0.01	0.0000189	0.000179	0.0172	0.0172	0.1	mg/L	N	0	0	MA	MA	MA	0.050	N	0.050	N	0.1			
WARF-09	07/18	100%	0.005-0.01	0.00972	0.01	0.01	0.0000189	0.000179	0.0172	0.0172	0.1	mg/L	N	0	0	MA	MA	MA	0.050	N	0.050	N	0.1			
WARF-17	07/17	0%	-	0.947	0.947	0.947	0.000044	0.000044	0.000044	0.000044	0.1	mg/L	Y	0	0	MA	MA	MA	0.050	Y	0.947	Y	0.1			No
WARF-18	17/17	0%	-	0.91	0.91	0.91	0.000044	0.000044	0.000044	0.000044	0.1	mg/L	Y	0	0	MA	MA	MA	0.050	Y	0.91	Y	0.1			Yes
WARF-19	15/17	12%	0.005-0.05	0.0376	0.041	0.054	0.0002266	0.01505	0.4006	0.4006	0.1	mg/L	N	0	0	MA	MA	MA	0.050	Y	0.050	Y	0.1			No
WARF-1	11/18	39%	0.4-4	3.01	4	4.339	4.39	2.424	1.57	0.5167	5	pc/L	N	0	0	MA	MA	MA	5.97	Y	5.97	N	5.97			
WARF-01	13/18	28%	4-4	3.54	4	5.774	5.77	2.519	1.87	0.449	5	pc/L	Y	4	0	MA	MA	MA	5.97	Y	5.97	N	5.97			
WARF-09	15/18	17%	4-4	3.57	4	5.397	5.31	2.032	1.426	0.389	5	pc/L	Y	2	0	MA	MA	MA	5.97	Y	5.97	N	5.97			
WARF-17	11/18	39%	4-4	2.92	4	4.598	4.46	1.672	1.274	0.5735	5	pc/L	Y	1	0	MA	MA	MA	5.97	Y	5.97	N	5.97			
WARF-18	11/18	39%	4-4	3.33	4	4.332	4.46	1.426	1.134	0.3588	5	pc/L	N	0	0	MA	MA	MA	5.97	Y	5.97	N	5.97			
WARF-19	9/18	50%	4-4	3.15	4	4.271	4.39	1.497	1.055	0.3514	5	pc/L	N	0	0	MA	MA	MA	5.97	Y	5.97	N	5.97			
WARF-1	07/7	100%	0.0025-0.02	0.0104	0.01	0.02	0.0000137	0.0000137	0.0000137	0.0000137	0.05	mg/L	N	0	0	MA	MA	MA	0.05	N	0.05	N	0.05			
WARF-01	07/9	100%	0.0025-0.02	0.0104	0.01	0.02	0.0000137	0.0000137	0.0000137	0.0000137	0.05	mg/L	N	0	0	MA	MA	MA	0.05	N	0.05	N	0.05			
WARF-09	07/9	100%	0.0025-0.02	0.0121	0.01	0.0215	0.0000958	0.009776	0.8603	0.8603	0.05	mg/L	N	0	0	MA	MA	MA	0.05	N	0.05	N	0.05			
WARF-17	07/15	100%	0.0025-0.02	0.0105	0.01	0.02	0.0000182	0.004452	0.424	0.424	0.05	mg/L	N	0	0	MA	MA	MA	0.05	N	0.05	N	0.05			
WARF-18	07/4	100%	0.0025-0.02	0.0105	0.01	0.02	0.00002133	0.004618	0.4883	0.4883	0.05	mg/L	N	0	0	MA	MA	MA	0.05	N	0.05	N	0.05			
WARF-19	07/4	100%	0.0025-0.02	0.0105	0.01	0.02	0.00002133	0.004618	0.4883	0.4883	0.05	mg/L	N	0	0	MA	MA	MA	0.05	N	0.05	N	0.05			
WARF-1	07/16	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.001	N	0.001	N	0.001			
WARF-01	07/16	100%	0.001-0.001	0.000844	0.001	0.001	5.053E-08	0.000225	0.284	0.284	0.002	mg/L	N	0	0	MA	MA	MA	0.001	N	0.001	N	0.001			
WARF-09	07/14	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.001	N	0.001	N	0.001			
WARF-17	07/16	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.001	N	0.001	N	0.001			
WARF-18	07/4	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.001	N	0.001	N	0.001			
WARF-19	07/4	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	0	MA	MA	MA	0.001	N	0.001	N	0.001			

TABLE 6. SUMMARY OF ASSESSMENT MONITORING STATISTICS STATISTICAL EVALUATION  
JULY 2022 MONITORING EVENT  
WINYAH ASH POND B (POST FIRST RECEIPT OF CCR AT CLASS 3 LANDFILL AREA 2)

Table with columns: Location ID, Frequency of Detection, Percent Non-Detections, Mean, Range of Non-Detect, 50th Percentile (Median), 95th Percentile, Maximum Detect, CCR Appendix IV: Arsenic, Total (mg/L), Coefficient of Variation, Standard Deviation, Variance, CCR Appendix IV: Barium, Total (mg/L), CCR Appendix IV: Calcium, Total (mg/L), CCR Appendix IV: Chlorine, Total (mg/L), CCR Appendix IV: Cobalt, Total (mg/L), CCR Appendix IV: Fluoride, Total (mg/L), 95% LC, Detect?, Distribution Wgt%, July 2022 Concentration, Upper Tolerance Limit, SD, GWPs (Higher of MCL/Residual Limit), Exceedance Above Individual Well, SW.

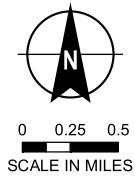
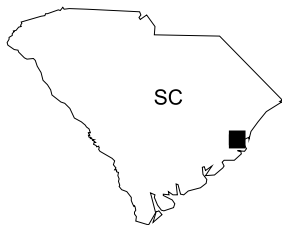
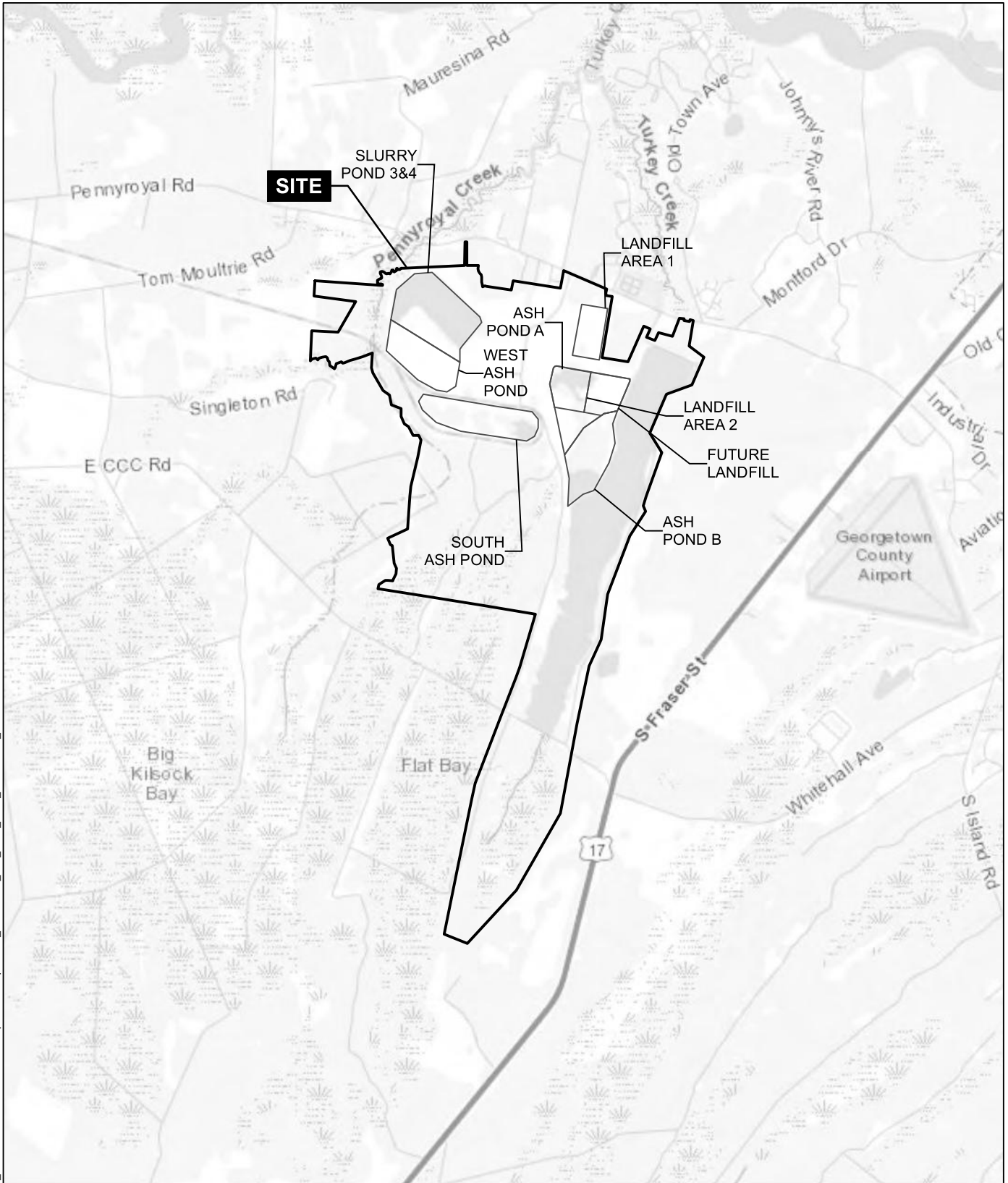


TABLE 6  
SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION  
JULY 2022 MONITORING EVENT  
WINYAH ASH POND B (POST FIRST RECEIPT OF CCR AT CLASS 3 LANDFILL AREA 2)

Location ID	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/SL	Report Limit Unit	Detections Exceeding Report Limit (Y/N)	Number of Exceedences	Outlier Presence	Outlier Removed	Trend	Distribution Weight	July 2022 Concentration	Detect?	Inter-well Analysis				SL
																					95% CL	Upper Tolerance Limit	SI	GWPS (Higher of MCL/Report Limit)	
WWP-1	0/16	100%	0.005-0.02	0.0109	0.01	0.02	CCR Applicable: Selenium, Total (mg/L)	0.0001406	0.00375	0.3429	0.05	mg/L	N	0	N/A	N/A	N/A	N/A	0.0035	N					
WWP-1	0/18	100%	0.005-0.02	0.0108	0.01	0.02	0.0000125	0.00336	0.3364	0.05	mg/L	N	0	N/A	N/A	N/A	N/A	N/A	0.0035	N					
WWP-10	0/18	100%	0.005-0.02	0.0108	0.01	0.02	0.0000125	0.00336	0.3364	0.05	mg/L	N	0	N/A	N/A	N/A	N/A	N/A	0.0035	N					
WWP-20	0/18	100%	0.005-0.02	0.0108	0.01	0.02	0.0000125	0.00336	0.3364	0.05	mg/L	N	0	N/A	N/A	N/A	N/A	N/A	0.0035	N					
WWP-21	0/18	100%	0.005-0.02	0.0112	0.01	0.02	0.0001231	0.00416	0.373	0.05	mg/L	N	0	N/A	N/A	N/A	N/A	N/A	0.0035	N					
WWP-1	0/15	100%	0.001-0.001	0.001	0.001	0.001	CCR Applicable: Thallium, Total (mg/L)	0	0	0	0.002	mg/L	N	0	N/A	N/A	N/A	N/A	0.001	N					
WWP-1	0/15	100%	0.001-0.001	0.00094	0.001	0.001	0.00000054	0.000234	0.242	0.002	mg/L	N	0	N/A	N/A	N/A	N/A	N/A	0.001	N					
WWP-10	0/13	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	N/A	N/A	N/A	N/A	0.001	N					
WWP-20	1/14	93%	0.001-0.001	0.00104	0.001	0.00121	0.0016	2.571E-08	0.000164	0.1538	0.002	mg/L	N	0	N/A	N/A	N/A	Non-parametric	0.001	N					
WWP-21	0/13	100%	0.001-0.001	0.001	0.001	0.001	0	0	0	0	0.002	mg/L	N	0	N/A	N/A	N/A	N/A	0.001	N					

## **FIGURES**

GIS FILE PATH: \\haleyaldrich.com\share\grn\_common\131539 - Santee Cooper\GIS\Maps\2023\_02\132692\_008\_0001\_SITE\_LOCATION\_WINYAH.mxd — USER: khaskins — LAST SAVED: 2/17/2023 11:57:48 AM



MAP SOURCE: ESRI

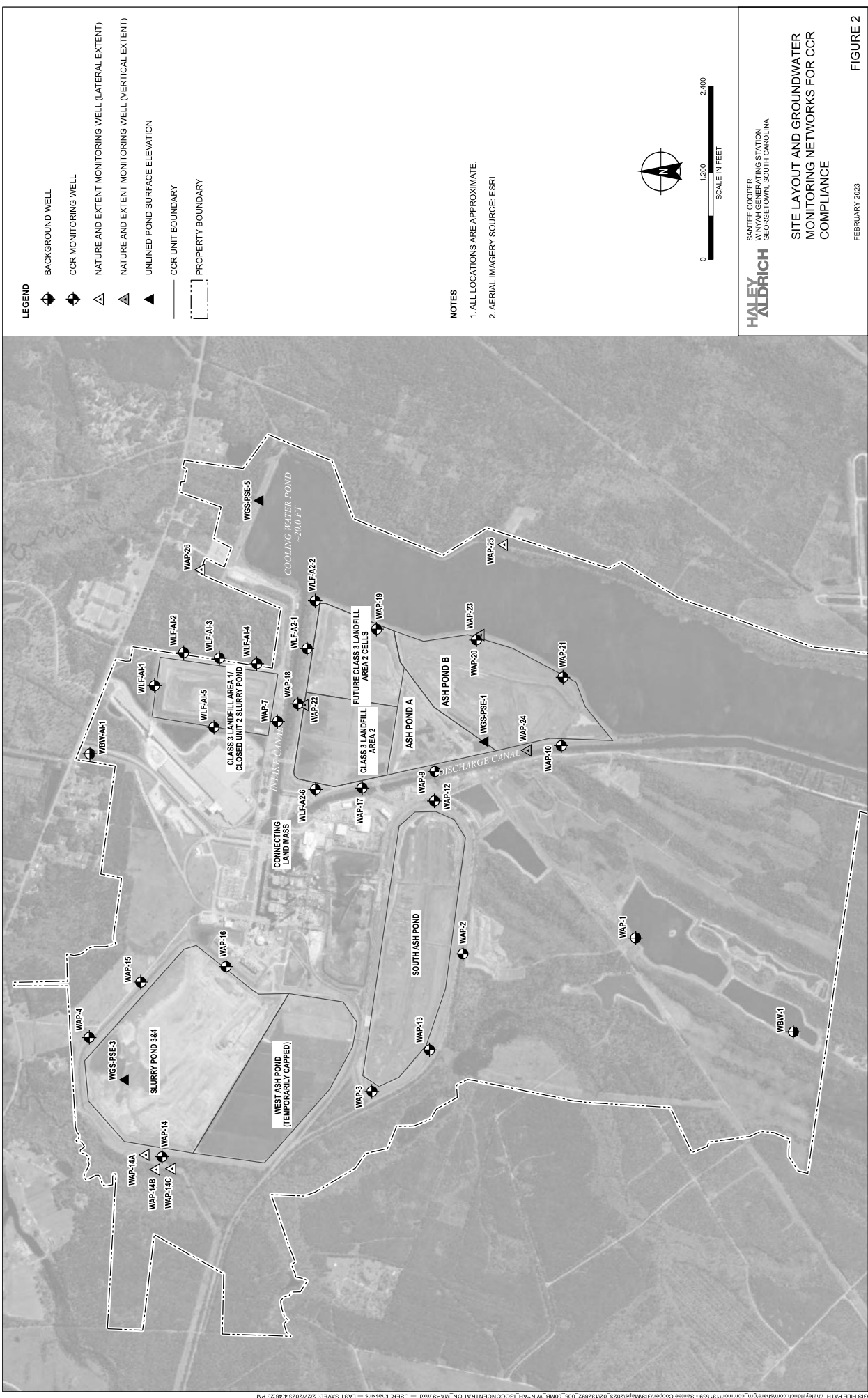
**HALEY  
ALDRICH**

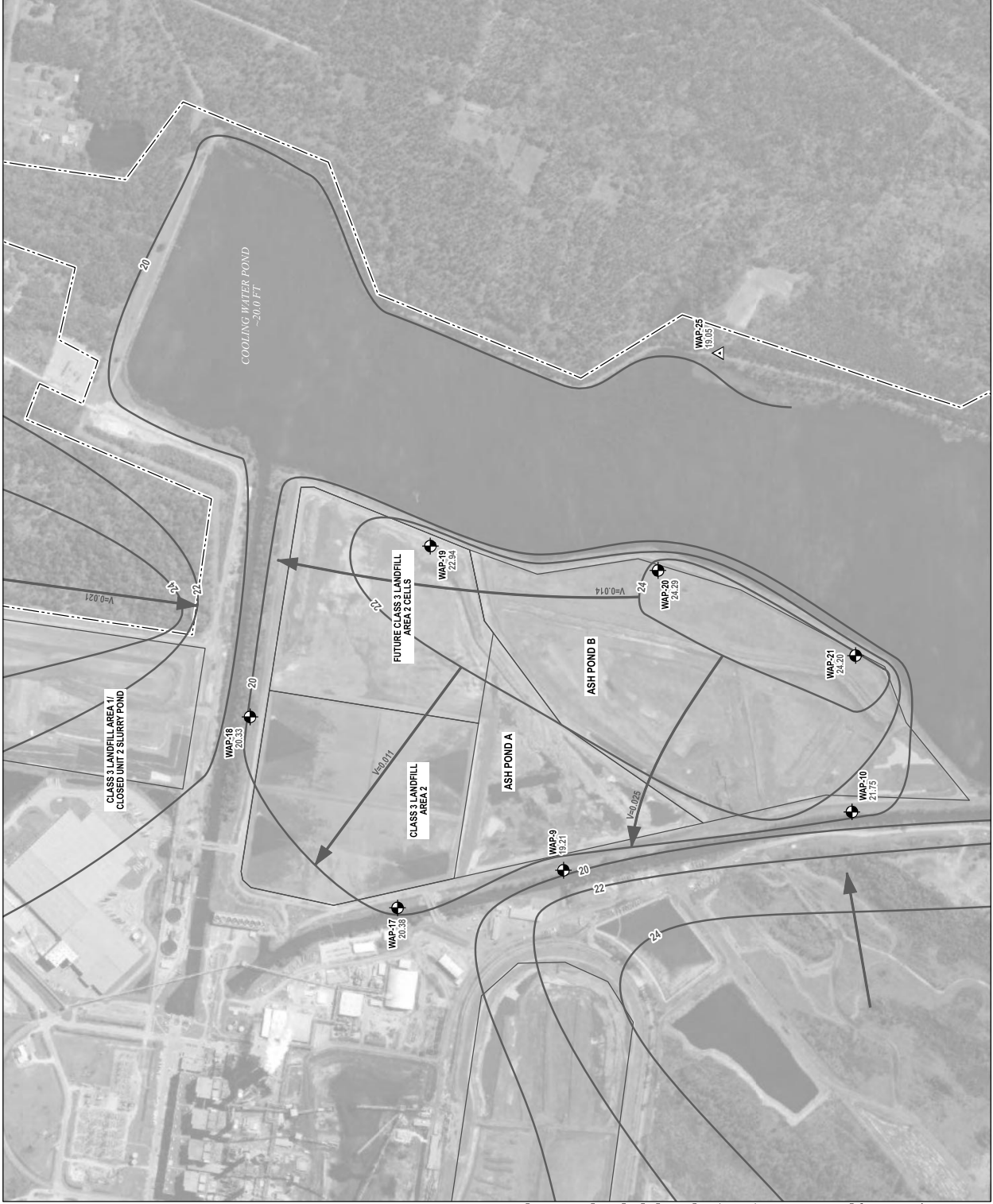
SANTEE COOPER  
WINYAH GENERATING STATION  
GEORGETOWN, SOUTH CAROLINA

### SITE LOCATION MAP

FEBRUARY 2023

**FIGURE 1**





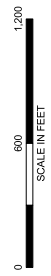
**LEGEND**

- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL (LATERAL EXTENT)
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = - \frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 $v_{(day)}$  = FEET PER DAY  
 $K$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $\Delta h/\Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HYDRAULIC FLOW PATH)  
 $n_e$  = EFFECTIVE POROSITY
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n_e = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM FEBRUARY 15, 2021 THROUGH MARCH 4, 2021
7. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER  
 MONITORING STATION  
 GEORGETOWN, SOUTH CAROLINA

POTENTIOMETRIC MAP  
 ASH PONDS A & B  
 FEBRUARY-MARCH 2021

FEBRUARY 2023

FIGURE 3A



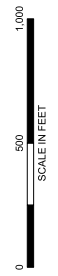
**LEGEND**

- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = -\frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 ft/day = FEET PER DAY  
 $v$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $K$  = AVERAGE HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)  
 $\Delta h/\Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)  
 $n_e$  = EFFECTIVE POROSITY
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n_e = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 20, 2021 THROUGH AUGUST 10, 2021
7. GROUNDWATER FLOW VELOCITY WAS NOT CALCULATED FOR THE WGS ASH POND A & B JULY-AUGUST 2021 EVENT BECAUSE THE INTERPRETED POTENTIOMETRIC CONTOUR AND WELL DATA NEAR THE EDGE OF THE UNIT BOUNDARY WOULD NOT PRODUCE A VALUE REPRESENTATIVE OF THE FLOW CONDITIONS FOR THE ENTIRE UNIT, BUT RATHER A LOCALIZED VALUE FOR THE EDGE OF THE UNIT ONLY. SEE FIGURE 2 FOR REPRESENTATIVE POTENTIOMETRIC CONTOUR AND VELOCITY CALCULATIONS FOR THE WGS ASH POND A & B UNIT.
8. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER  
 SANITARY ENGINEERING STATION  
 GEORGETOWN, SOUTH CAROLINA

POTENTIOMETRIC MAP  
 ASH POND A & B  
 JULY-AUGUST 2021

FEBRUARY 2022

FIGURE 3B



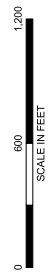
**LEGEND**

- ◉ CCR MONITORING WELL
- △ NATURE AND EXTENT MONITORING WELL (LATERAL EXTENT)
- ▲ NATURE AND EXTENT MONITORING WELL (VERTICAL EXTENT)
- UNLINED POND SURFACE ELEVATION
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- INTERMEDIATE GROUNDWATER ELEVATION CONTOUR
- CCR UNIT BOUNDARY
- ⌚ PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = \frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 ft/day = FEET PER DAY  
 $v$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $K$  = PERMEABILITY (ft/day)  
 $\Delta h$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)  
 $n_e$  = EFFECTIVE POROSITY
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n_e = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM FEBRUARY 15 THROUGH FEBRUARY 16, 2022.
7. SURFACE WATER POND (PSE) ELEVATIONS WERE MEASURED ON MARCH 3, 2022.
8. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.004 FT/DAY.
9. AERIAL IM AGERY SOURCE: ESRI



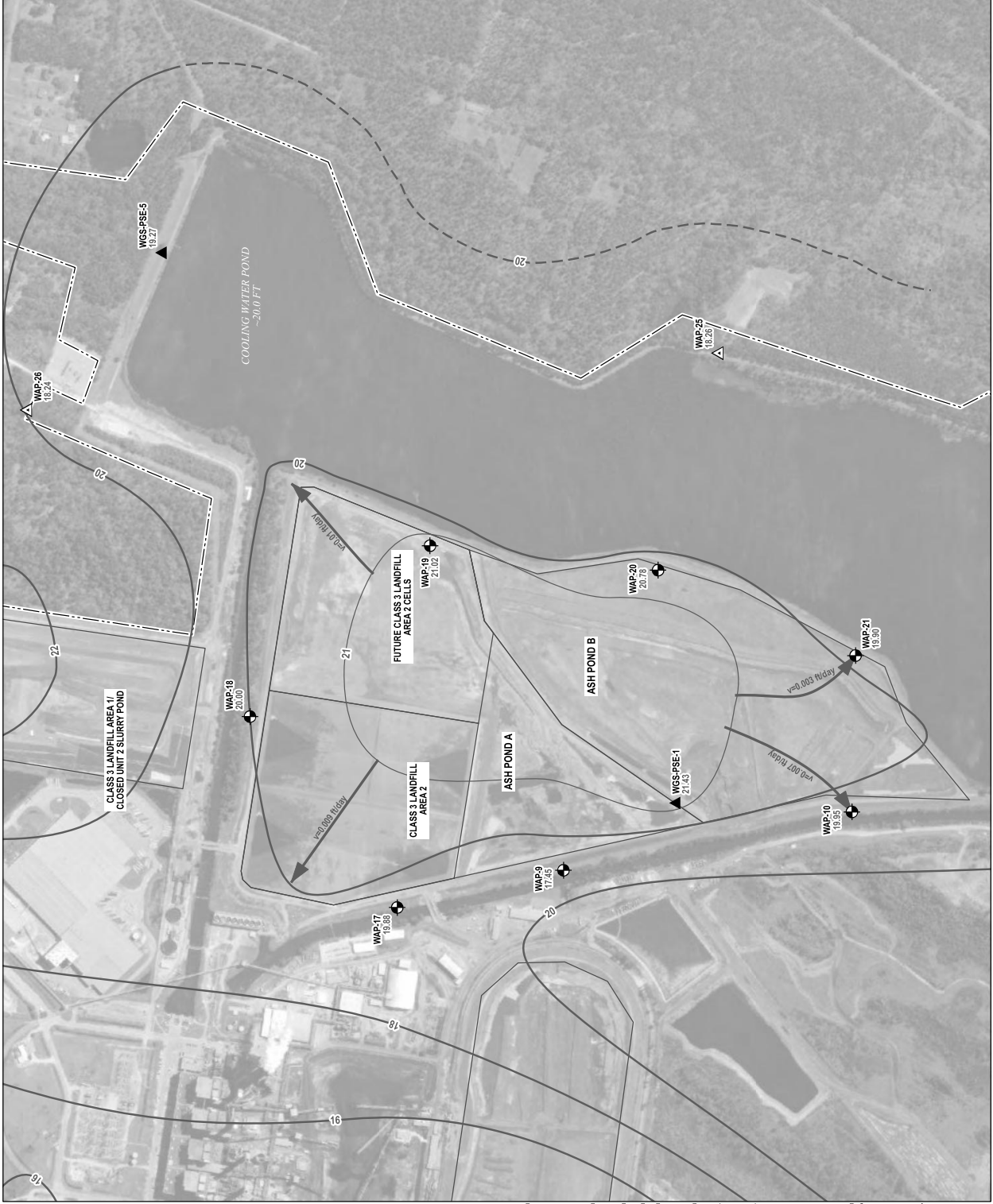
**HALEY ALDRICH**  
 SANTEE COOPER  
 POTENTIOMETRIC STATION  
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP**  
**ASH PONDS A & B**  
 FEBRUARY 15-16, 2022

NOVEMBER 2022

FIGURE 3C





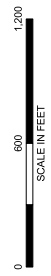
**LEGEND**

- ◉ CCR MONITORING WELL
- △ NATURE AND EXTENT MONITORING WELL (LATERAL EXTENT)
- ▲ NATURE AND EXTENT MONITORING WELL (VERTICAL EXTENT)
- ▲ UNLINED POND SURFACE ELEVATION
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- INTERMEDIATE GROUNDWATER ELEVATION CONTOUR
- CCR UNIT BOUNDARY
- - - PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = - \frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 ft/day = FEET PER DAY  
 V = AVERAGE LINEAR VELOCITY (ft/day)  
 K = HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)  
 $\Delta h/\Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF FLOW PATH)  
 $n_e$  = EFFECTIVE POROSITY
4. K = 2.3 FEET PER DAY (ft/day)
5.  $n_e$  = 0.30
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 5 THROUGH JULY 16, 2022.
7. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.01 FT/DAY.
9. AERIAL IMAGERY SOURCE: ESRI



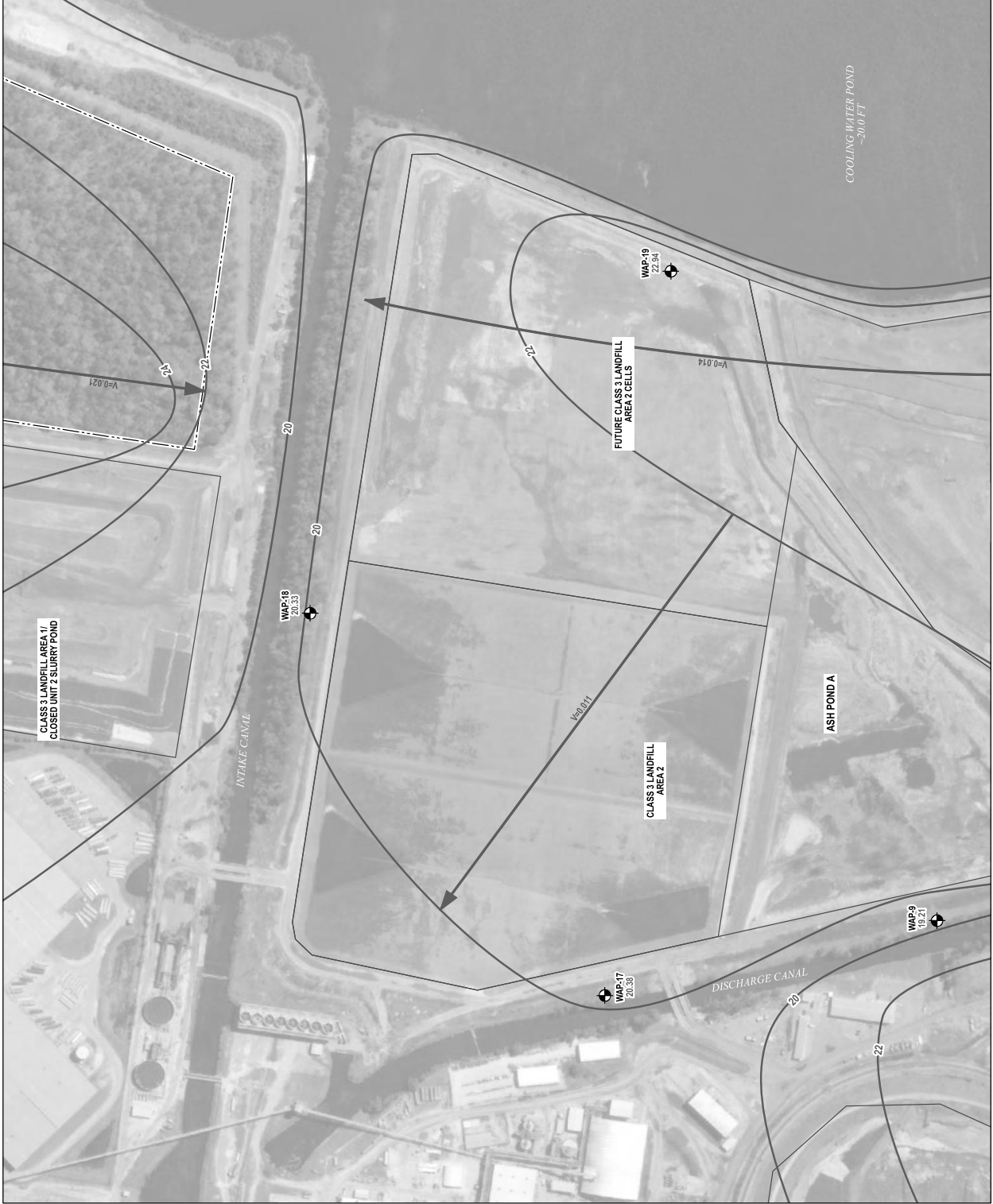
SANTEE COOPER  
 POTENTIOMETRIC STATION  
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP  
 ASH PONDS A & B  
 JULY 5-6, 2022**

FEBRUARY 2023

FIGURE 3D





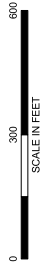
**LEGEND**

- CCR MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = - \frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 $v$ (day) = FEET PER DAY  
 $K$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $n_e$  = EFFECTIVE POROSITY  
 $\Delta h/\Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HYDRAULIC FLOW PATH)
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n_e = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM FEBRUARY 15, 2021 THROUGH MARCH 2, 2021



**HALEIGH ALDRICH**

SANTEE COOPER CONSULTING STATION  
 GEORGETOWN, SOUTH CAROLINA

POTENTIOMETRIC MAP  
 CLASS 3 LANDFILL AREA 2  
 FEBRUARY-MARCH 2021

FEBRUARY 2023

FIGURE 3E



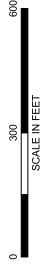
**LEGEND**

- CCR MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = - \frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 $v(\text{day})$  = FEET PER DAY  
 $K$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $\Delta h/\Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HYDRAULIC FLOW PATH)  
 $n_e$  = EFFECTIVE POROSITY
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n_e = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 20, 2021 THROUGH AUGUST 4, 2021
7. MONITORING WELL WLF-A2-6 WAS INSTALLED IN MARCH 2021.
8. AERIAL IMAGERY SOURCE: ESRI

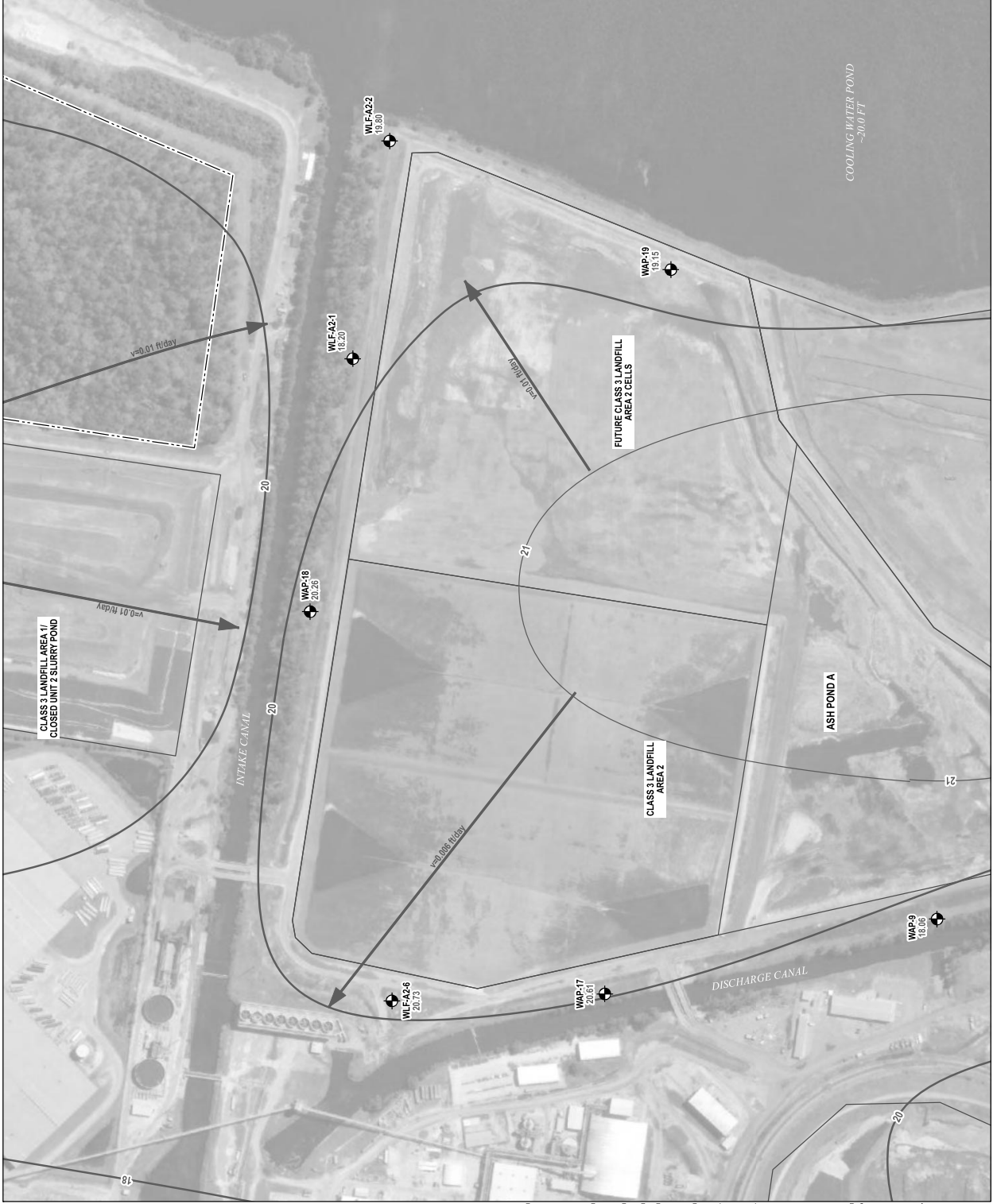


**HALCYON**  
 SANTEE COOPER  
 MONITORING STATION  
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP  
 CLASS 3 LANDFILL AREA 2  
 JULY-AUGUST 2021**

FEBRUARY 2023

FIGURE 3F



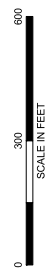
**LEGEND**

- CCR MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR; 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- INTERMEDIATE GROUNDWATER ELEVATION CONTOUR
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = - \frac{K}{n_e} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 $n_e$  = FEET PER DAY  
 $v$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $K$  = HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)  
 $\Delta h / \Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD (LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)  
 $n_e$  = EFFECTIVE POROSITY
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n_e = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM FEBRUARY 15 THROUGH FEBRUARY 16, 2022.
7. SURFACE WATER POND (PSE) ELEVATIONS WERE MEASURED ON MARCH 3, 2022.
8. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.008 FT/DAY.
9. AERIAL IMAGERY SOURCE: ESRI



**HALEY ALDRICH**  
 SANTEE COOPER CONSULTING STATION  
 1000 W. WASHINGTON STREET  
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP**  
**CLASS 3 LANDFILL AREA 2**  
**FEBRUARY 15-16 2022**

MARCH 2023

FIGURE 3G



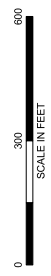
**LEGEND**

- CCR MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR; 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- INTERMEDIATE GROUNDWATER ELEVATION CONTOUR
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:  

$$v = - \frac{K}{n} \frac{\Delta h}{\Delta L}$$
3. ABBREVIATIONS:  
 $v_{ft/day}$  = FEET PER DAY  
 $V$  = AVERAGE LINEAR VELOCITY (ft/day)  
 $K$  = HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)  
 $\Delta h/\Delta L$  = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)  
 $n$  = EFFECTIVE POROSITY
4.  $K = 2.3$  FEET PER DAY (ft/day)
5.  $n = 0.30$
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 6 THROUGH JULY 6, 2022.
8. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.01 FT/DAY.
9. AERIAL IMAGERY SOURCE: ESRI

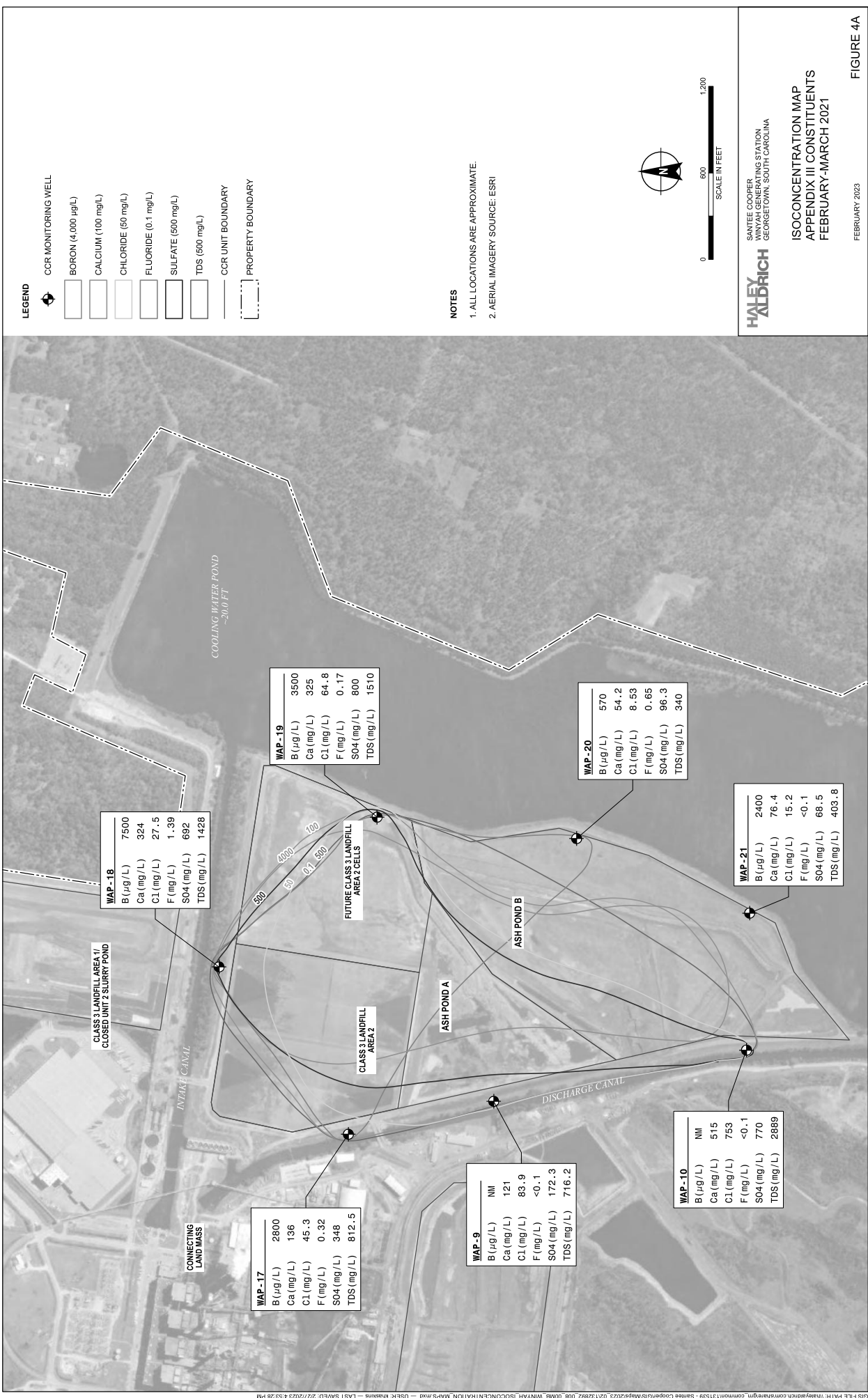


SANTEE COOPER  
 MONITORING STATION  
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP  
 CLASS 3 LANDFILL AREA 2  
 JULY 5-6, 2022**

MARCH 2023

FIGURE 3H

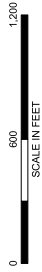


**LEGEND**

- CCR MONITORING WELL
- BORON (4,000 µg/L)
- CALCIUM (100 mg/L)
- CHLORIDE (50 mg/L)
- FLUORIDE (0.1 mg/L)
- SULFATE (500 mg/L)
- TDS (500 mg/L)
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI



**HALLEY ALDRICH**

SANTEE COOPER  
OPERATING STATION  
GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP  
APPENDIX III CONSTITUENTS  
FEBRUARY-MARCH 2021**

FEBRUARY 2023

FIGURE 4A

**WAP-18**

B (µg/L)	7500
Ca (mg/L)	324
Cl (mg/L)	27.5
F (mg/L)	1.39
SO4 (mg/L)	692
TDS (mg/L)	1428

**WAP-19**

B (µg/L)	3500
Ca (mg/L)	325
Cl (mg/L)	64.8
F (mg/L)	0.17
SO4 (mg/L)	800
TDS (mg/L)	1510

**WAP-20**

B (µg/L)	570
Ca (mg/L)	54.2
Cl (mg/L)	8.53
F (mg/L)	0.65
SO4 (mg/L)	96.3
TDS (mg/L)	340

**WAP-21**

B (µg/L)	2400
Ca (mg/L)	76.4
Cl (mg/L)	15.2
F (mg/L)	<0.1
SO4 (mg/L)	68.5
TDS (mg/L)	403.8

**WAP-17**

B (µg/L)	2800
Ca (mg/L)	136
Cl (mg/L)	45.3
F (mg/L)	0.32
SO4 (mg/L)	348
TDS (mg/L)	812.5

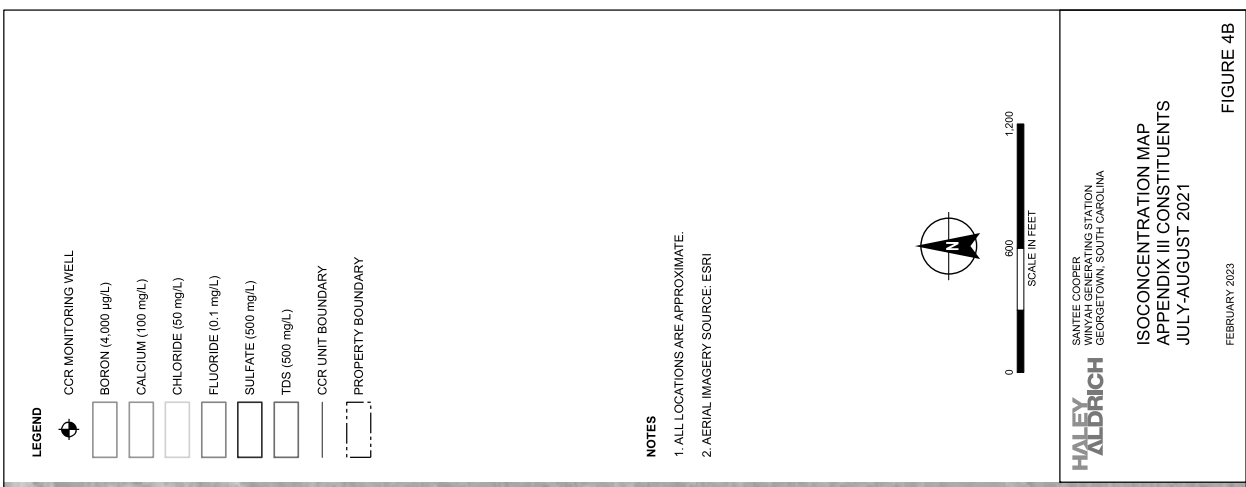
**WAP-9**

B (µg/L)	NM
Ca (mg/L)	121
Cl (mg/L)	83.9
F (mg/L)	<0.1
SO4 (mg/L)	172.3
TDS (mg/L)	716.2

**WAP-10**

B (µg/L)	NM
Ca (mg/L)	515
Cl (mg/L)	753
F (mg/L)	<0.1
SO4 (mg/L)	770
TDS (mg/L)	2889





Add these values in

WIF-A2-6	#	#	#	#	#	#
B (ug/L)						
Ca (mg/L)						
Cl (mg/L)						
F (mg/L)						
SO4 (mg/L)						
TDS (mg/L)						

WAP-17	#	#	#	#	#	#
B (ug/L)	4100					
Ca (mg/L)	247					
Cl (mg/L)	198					
F (mg/L)	<0.1					
SO4 (mg/L)	607					
TDS (mg/L)	1321					

WAP-9	#	#	#	#	#	#
B (ug/L)	4600					
Ca (mg/L)	182					
Cl (mg/L)	77.7					
F (mg/L)	<0.1					
SO4 (mg/L)	197					
TDS (mg/L)	941.2					

WAP-19	#	#	#	#	#	#
B (ug/L)	4000					
Ca (mg/L)	342					
Cl (mg/L)	122					
F (mg/L)	0.26					
SO4 (mg/L)	775					
TDS (mg/L)	1582					

WAP-20	#	#	#	#	#	#
B (ug/L)	1800					
Ca (mg/L)	49.3					
Cl (mg/L)	92.3					
F (mg/L)	0.23					
SO4 (mg/L)	<2					
TDS (mg/L)	452.3					

WAP-21	#	#	#	#	#	#
B (ug/L)	2200					
Ca (mg/L)	76.3					
Cl (mg/L)	11.5					
F (mg/L)	<0.1					
SO4 (mg/L)	29.5					
TDS (mg/L)	357.5					

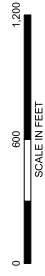
WAP-10	#	#	#	#	#	#
B (ug/L)	8800					
Ca (mg/L)	622					
Cl (mg/L)	843					
F (mg/L)	<0.1					
SO4 (mg/L)	843					
TDS (mg/L)	3032					

**LEGEND**

- CCR MONITORING WELL
- BORON (4,000 ug/L)
- CALCIUM (100 mg/L)
- CHLORIDE (50 mg/L)
- FLUORIDE (0.1 mg/L)
- SULFATE (500 mg/L)
- TDS (500 mg/L)
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI



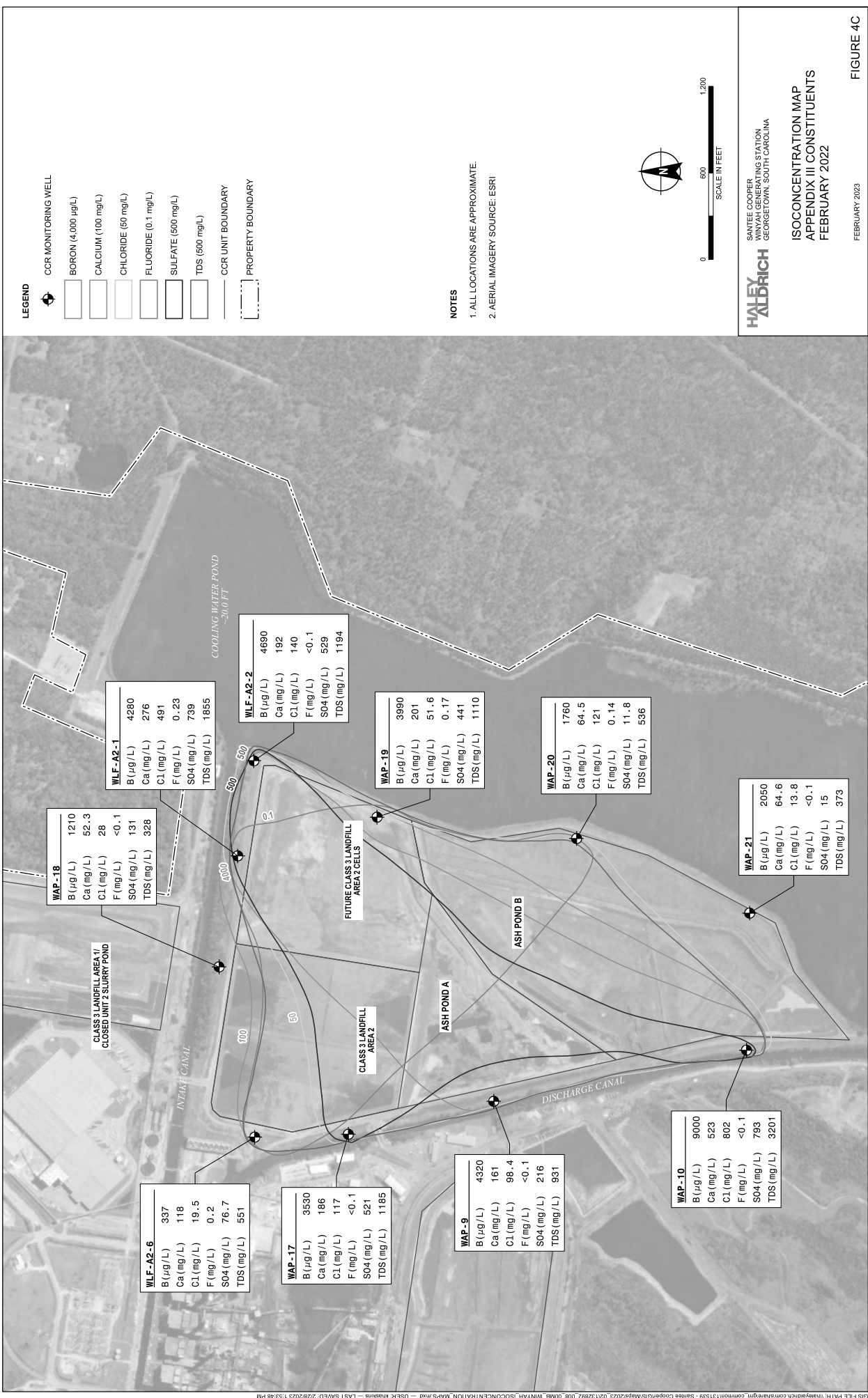
**HALEY ALDRICH**

SANTEE COOPERATING STATION  
GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP  
APPENDIX III CONSTITUENTS  
JULY-AUGUST 2021**

FEBRUARY 2023

FIGURE 4B

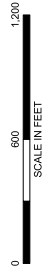


**LEGEND**

- CCR MONITORING WELL
- BORON (4,000 µg/L)
- CALCIUM (100 mg/L)
- CHLORIDE (50 mg/L)
- FLUORIDE (0.1 mg/L)
- SULFATE (500 mg/L)
- TDS (500 mg/L)
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI



**HALDRICH**  
 SANTEE COOPER  
 MONITORING STATION  
 GEORGETOWN, SOUTH CAROLINA

**ISOCENTRATION MAP  
 APPENDIX III CONSTITUENTS  
 FEBRUARY 2022**

FEBRUARY 2023

FIGURE 4C

**WAP-18**

B (µg/L)	1210
Ca (mg/L)	52.3
Cl (mg/L)	28
F (mg/L)	<0.1
SO4 (mg/L)	131
TDS (mg/L)	328

**WLF-A2-1**

B (µg/L)	4280
Ca (mg/L)	276
Cl (mg/L)	491
F (mg/L)	0.23
SO4 (mg/L)	739
TDS (mg/L)	1855

**WLF-A2-2**

B (µg/L)	4690
Ca (mg/L)	192
Cl (mg/L)	140
F (mg/L)	<0.1
SO4 (mg/L)	529
TDS (mg/L)	1194

**WAP-19**

B (µg/L)	3990
Ca (mg/L)	201
Cl (mg/L)	51.6
F (mg/L)	0.17
SO4 (mg/L)	441
TDS (mg/L)	1110

**WAP-20**

B (µg/L)	1760
Ca (mg/L)	64.5
Cl (mg/L)	121
F (mg/L)	0.14
SO4 (mg/L)	11.8
TDS (mg/L)	536

**WAP-21**

B (µg/L)	2050
Ca (mg/L)	64.6
Cl (mg/L)	13.8
F (mg/L)	<0.1
SO4 (mg/L)	15
TDS (mg/L)	373

**WLF-A2-6**

B (µg/L)	337
Ca (mg/L)	118
Cl (mg/L)	19.5
F (mg/L)	0.2
SO4 (mg/L)	76.7
TDS (mg/L)	551

**WAP-17**

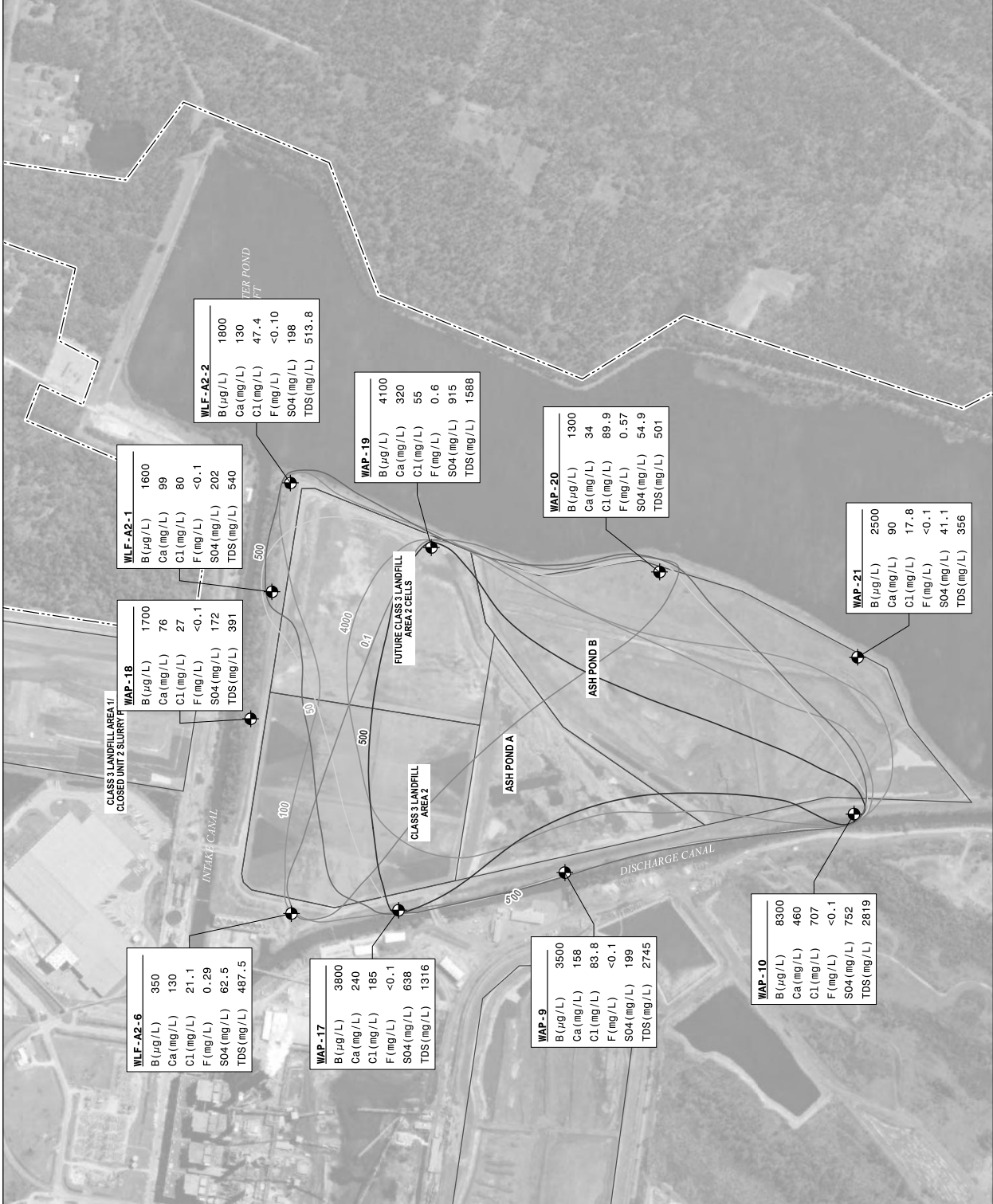
B (µg/L)	3530
Ca (mg/L)	186
Cl (mg/L)	117
F (mg/L)	<0.1
SO4 (mg/L)	521
TDS (mg/L)	1185

**WAP-9**

B (µg/L)	4320
Ca (mg/L)	161
Cl (mg/L)	98.4
F (mg/L)	<0.1
SO4 (mg/L)	216
TDS (mg/L)	931

**WAP-10**

B (µg/L)	9000
Ca (mg/L)	523
Cl (mg/L)	802
F (mg/L)	<0.1
SO4 (mg/L)	793
TDS (mg/L)	3201

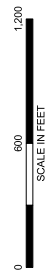


**LEGEND**

- CCR MONITORING WELL
- BORON (4,000 µg/L)
- CALCIUM (100 mg/L)
- CHLORIDE (50 mg/L)
- FLUORIDE (0.1 mg/L)
- SULFATE (500 mg/L)
- TDS (500 mg/L)
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER MONITORING STATION  
 GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP  
 APPENDIX III CONSTITUENTS  
 JULY 2022**

FEBRUARY 2023

FIGURE 4D

**WLF-A2-6**

B (µg/L)	350
Ca (mg/L)	130
Cl (mg/L)	21.1
F (mg/L)	0.29
SO4 (mg/L)	62.5
TDS (mg/L)	487.5

**WAP-18**

B (µg/L)	1700
Ca (mg/L)	76
Cl (mg/L)	27
F (mg/L)	<0.1
SO4 (mg/L)	172
TDS (mg/L)	391

**WLF-A2-1**

B (µg/L)	1600
Ca (mg/L)	99
Cl (mg/L)	80
F (mg/L)	<0.1
SO4 (mg/L)	202
TDS (mg/L)	540

**WLF-A2-2**

B (µg/L)	1800
Ca (mg/L)	130
Cl (mg/L)	47.4
F (mg/L)	<0.10
SO4 (mg/L)	198
TDS (mg/L)	513.8

**WAP-17**

B (µg/L)	3800
Ca (mg/L)	240
Cl (mg/L)	185
F (mg/L)	<0.1
SO4 (mg/L)	638
TDS (mg/L)	1316

**WAP-19**

B (µg/L)	4100
Ca (mg/L)	320
Cl (mg/L)	55
F (mg/L)	0.6
SO4 (mg/L)	915
TDS (mg/L)	1588

**WAP-9**

B (µg/L)	3500
Ca (mg/L)	158
Cl (mg/L)	83.8
F (mg/L)	<0.1
SO4 (mg/L)	199
TDS (mg/L)	2745

**WAP-10**

B (µg/L)	8300
Ca (mg/L)	460
Cl (mg/L)	707
F (mg/L)	<0.1
SO4 (mg/L)	752
TDS (mg/L)	2819

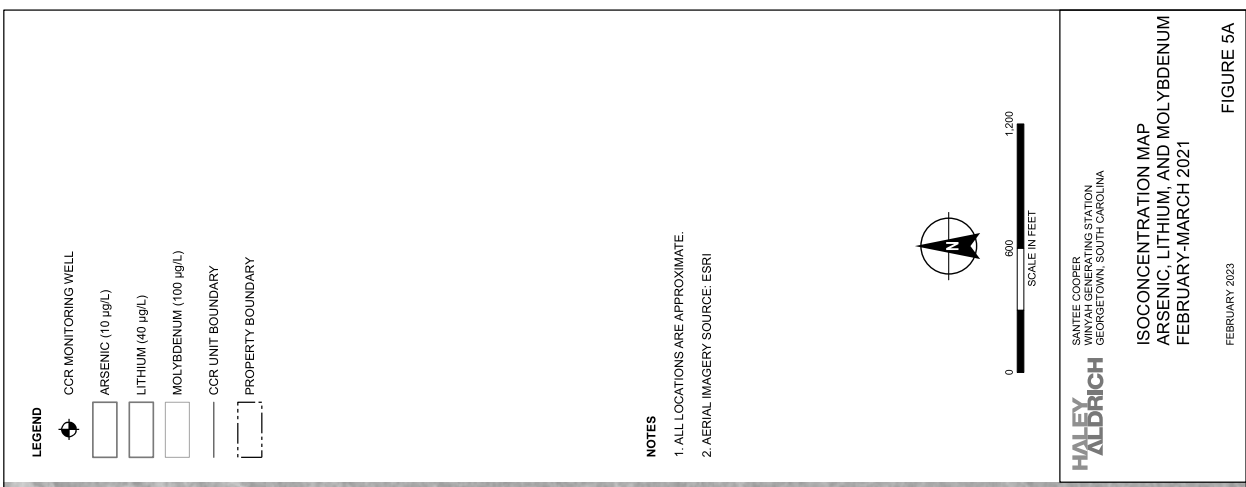
**WAP-20**

B (µg/L)	1300
Ca (mg/L)	34
Cl (mg/L)	89.9
F (mg/L)	0.57
SO4 (mg/L)	54.9
TDS (mg/L)	501



**WAP-21**

B (µg/L)	2500
Ca (mg/L)	90
Cl (mg/L)	17.8
F (mg/L)	<0.1
SO4 (mg/L)	41.1
TDS (mg/L)	356



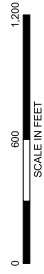


**LEGEND**

-  CCR MONITORING WELL
-  ARSENIC (10 µg/L)
-  LITHIUM (40 µg/L)
-  MOLYBDENUM (100 µg/L)
-  CCR UNIT BOUNDARY
-  PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI



**HALEY ALDRICH**

SANTEE COOPER  
MONITORING STATION  
GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP  
ARSENIC, LITHIUM, AND MOLYBDENUM  
FEBRUARY-MARCH 2021**

FEBRUARY 2023

FIGURE 5A

**WAP-18**

As (µg/L)	442
Li (µg/L)	540
Mo (µg/L)	2900

**WAP-19**

As (µg/L)	120
Li (µg/L)	290
Mo (µg/L)	41

**WAP-20**

As (µg/L)	23.8
Li (µg/L)	290
Mo (µg/L)	140

**WAP-21**

As (µg/L)	<5
Li (µg/L)	<10
Mo (µg/L)	<10

**WAP-17**

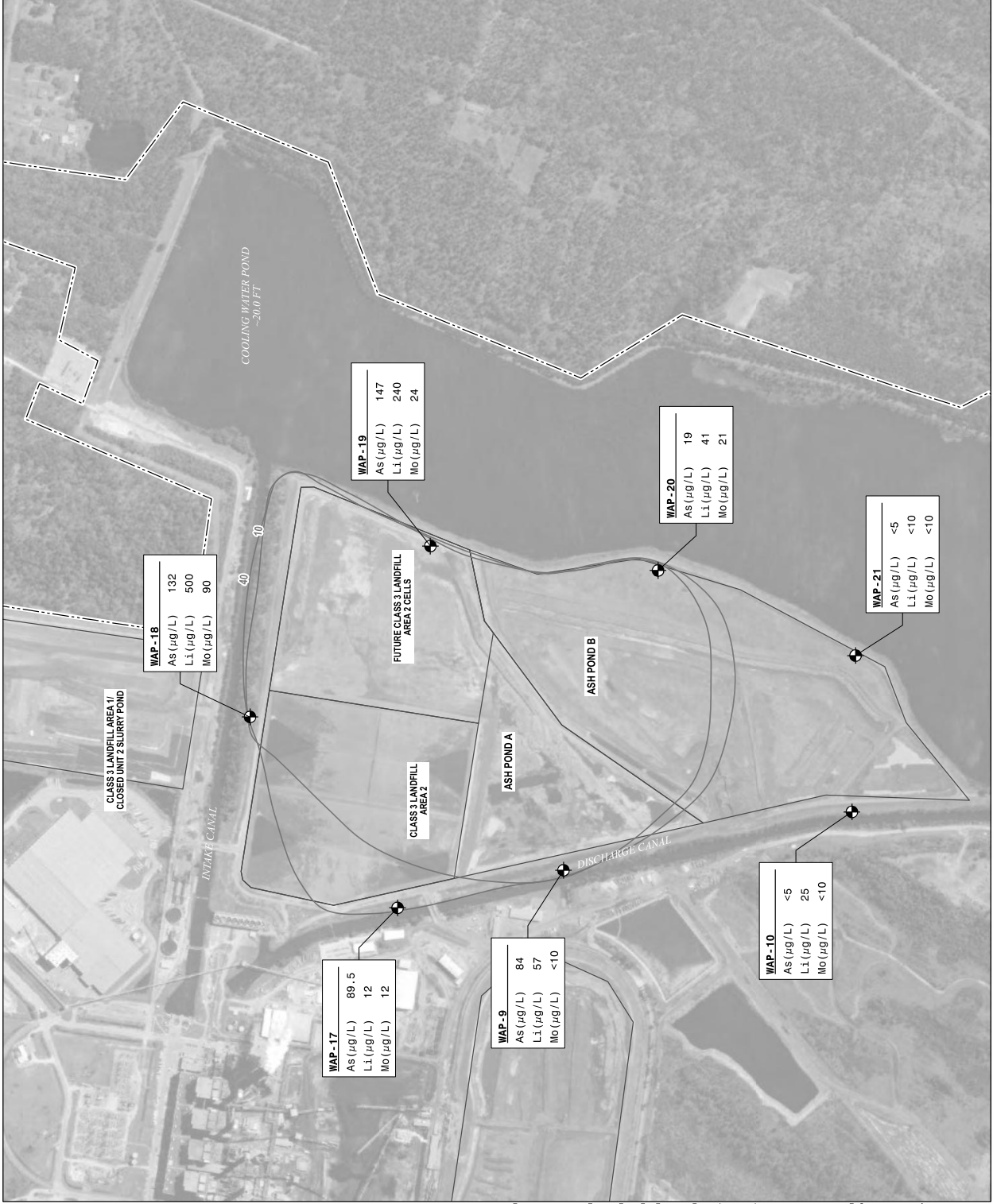
As (µg/L)	90.6
Li (µg/L)	160
Mo (µg/L)	110

**WAP-9**






As (µg/L)	101
Li (µg/L)	69
Mo (µg/L)	<10

**WAP-10**

As (µg/L)	<5
Li (µg/L)	26
Mo (µg/L)	<10

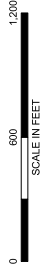


**LEGEND**

-  CCR MONITORING WELL
-  ARSENIC (10 µg/L)
-  LITHIUM (40 µg/L)
-  CCR UNIT BOUNDARY
-  PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI
3. MOLYBDENUM WAS BELOW THE MCL (100 µg/L) FOR ALL AREA 2, AND ASH POND A AND B WELLS.



**HALEY ALDRICH**  
 SANTEE COPPER MONITORING STATION  
 GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP  
 ARSENIC, LITHIUM, AND MOLYBDENUM  
 JULY-AUGUST 2021**

FEBRUARY 2023

FIGURE 5B

**WAP-18**

As (µg/L)	132
Li (µg/L)	500
Mo (µg/L)	90

**WAP-19**

As (µg/L)	147
Li (µg/L)	240
Mo (µg/L)	24

**WAP-20**

As (µg/L)	19
Li (µg/L)	41
Mo (µg/L)	21

**WAP-21**

As (µg/L)	<5
Li (µg/L)	<10
Mo (µg/L)	<10

**WAP-17**

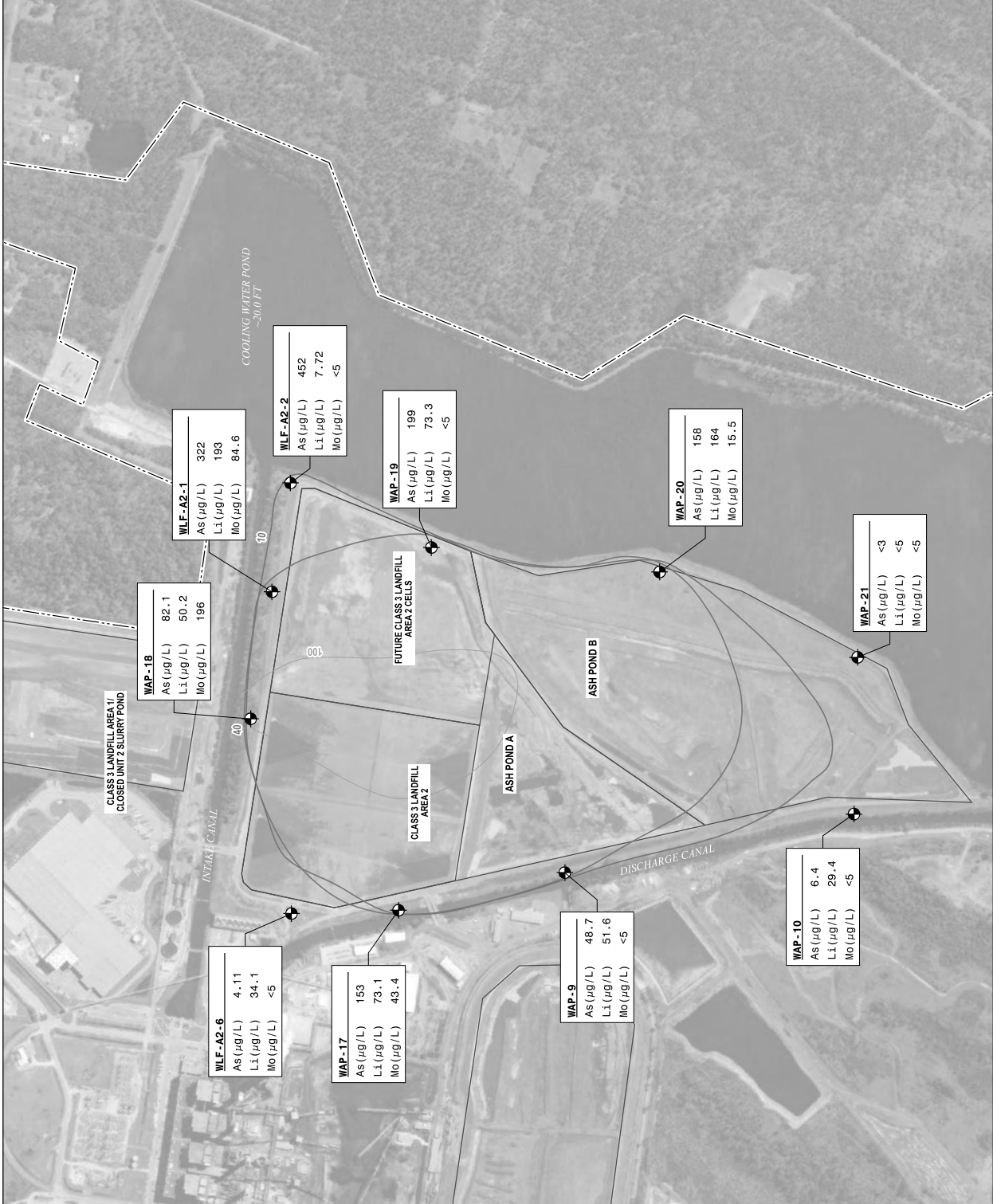
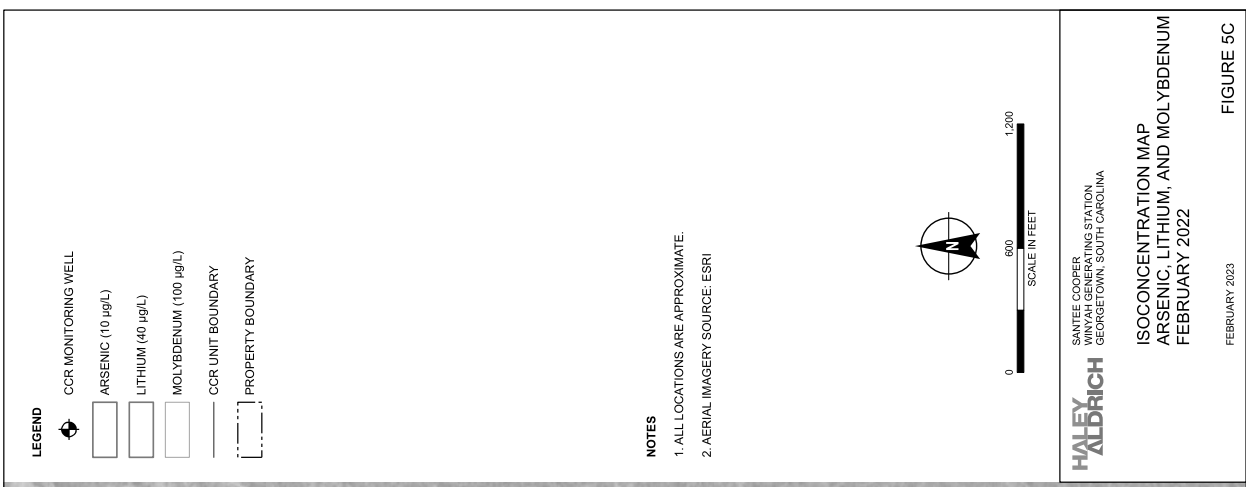
As (µg/L)	89.5
Li (µg/L)	12
Mo (µg/L)	12

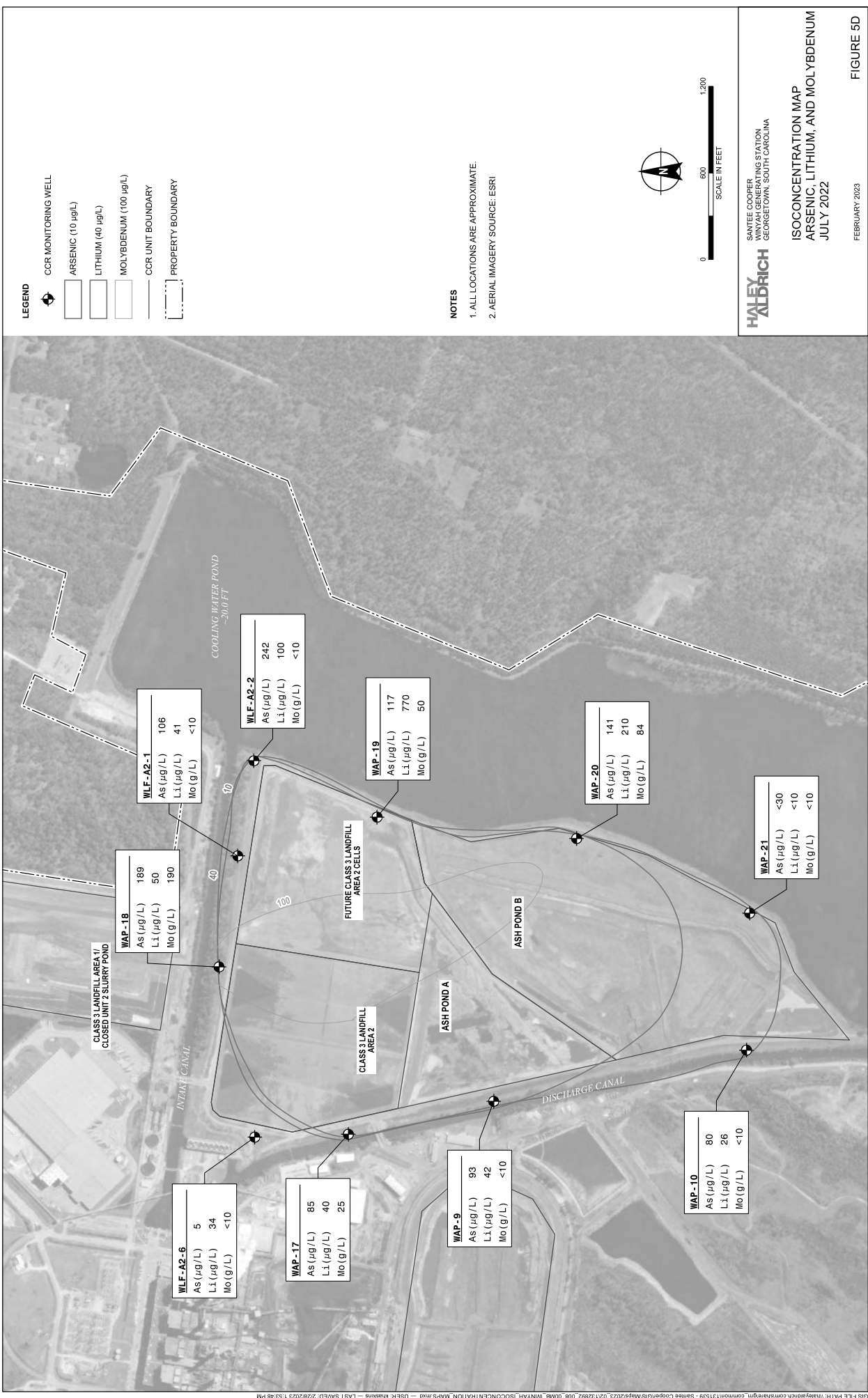
**WAP-9**

As (µg/L)	84
Li (µg/L)	57
Mo (µg/L)	<10







**WAP-10**

As (µg/L)	<5
Li (µg/L)	25
Mo (µg/L)	<10



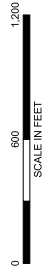


**LEGEND**

-  CCR MONITORING WELL
-  ARSENIC (10 µg/L)
-  LITHIUM (40 µg/L)
-  MOLYBDENUM (100 µg/L)
-  CCR UNIT BOUNDARY
-  PROPERTY BOUNDARY

**NOTES**

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI



**HALLEY ALDRICH**

SANTEE COOPER COOLING STATION  
 GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP  
 ARSENIC, LITHIUM, AND MOLYBDENUM  
 JULY 2022**

FEBRUARY 2023

FIGURE 5D

CLASS 3 LANDFILL AREA 1/  
 CLOSED UNIT 2 SLURRY POND

**WAP-18**

As (µg/L)	189
Li (µg/L)	50
Mo (g/L)	190

**WLF-A2-1**

As (µg/L)	106
Li (µg/L)	41
Mo (g/L)	<10

**WLF-A2-6**

As (µg/L)	5
Li (µg/L)	34
Mo (g/L)	<10

**WAP-17**

As (µg/L)	85
Li (µg/L)	40
Mo (g/L)	25

**WAP-9**

As (µg/L)	93
Li (µg/L)	42
Mo (g/L)	<10

**WLF-A2-2**

As (µg/L)	242
Li (µg/L)	100
Mo (g/L)	<10

**WAP-19**

As (µg/L)	117
Li (µg/L)	770
Mo (g/L)	50

**WAP-20**

As (µg/L)	141
Li (µg/L)	210
Mo (g/L)	84

**WAP-21**

As (µg/L)	<30
Li (µg/L)	<10
Mo (g/L)	<10

**WAP-10**

As (µg/L)	80
Li (µg/L)	26
Mo (g/L)	<10

COOLING WATER POND  
 ~200 FT

INTAKE CANAL

CLASS 3 LANDFILL  
 AREA 2

FUTURE CLASS 3 LANDFILL  
 AREA 2 CELLS

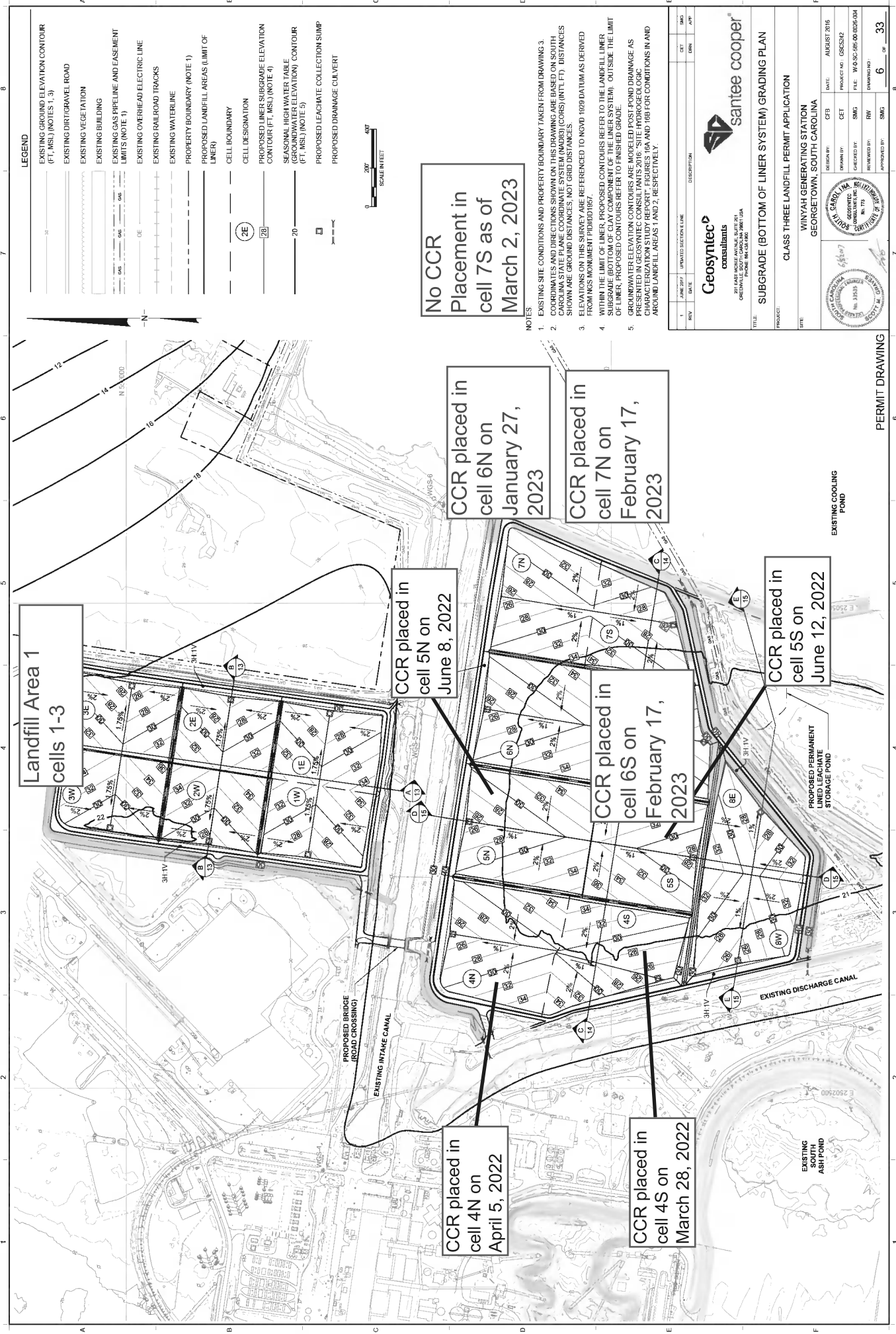
ASH POND A

ASH POND B

DISCHARGE CANAL

**APPENDIX A**  
**Landfill Area 2 Construction Drawing**

Annotations by Haley & Aldrich for  
Winyah Class 3 Landfill Area 2 ASD  
(Haley & Aldrich, 2023)



**Geosyntec consultants**  
2015 W. WINDYBROOK DRIVE  
GREENVILLE, SOUTH CAROLINA 29615 USA  
PHONE 864.334.8800

**santee cooper**

**CLASS THREE LANDFILL PERMIT APPLICATION**  
SUBGRADE (BOTTOM OF LINER SYSTEM) GRADING PLAN

**WINYAH GENERATING STATION  
GEORGETOWN, SOUTH CAROLINA**

DATE: AUGUST 2015  
PROJECT NO.: 05C5362  
DRAWN BY: SMG  
CHECKED BY: SMG  
DESIGNED BY: RWY  
REVIEWED BY: SMG  
APPROVED BY: SMG

SCALE: 1" = 40'

REV. DATE DESCRIPTION

1. 08/15/15 UNPUBLISHED

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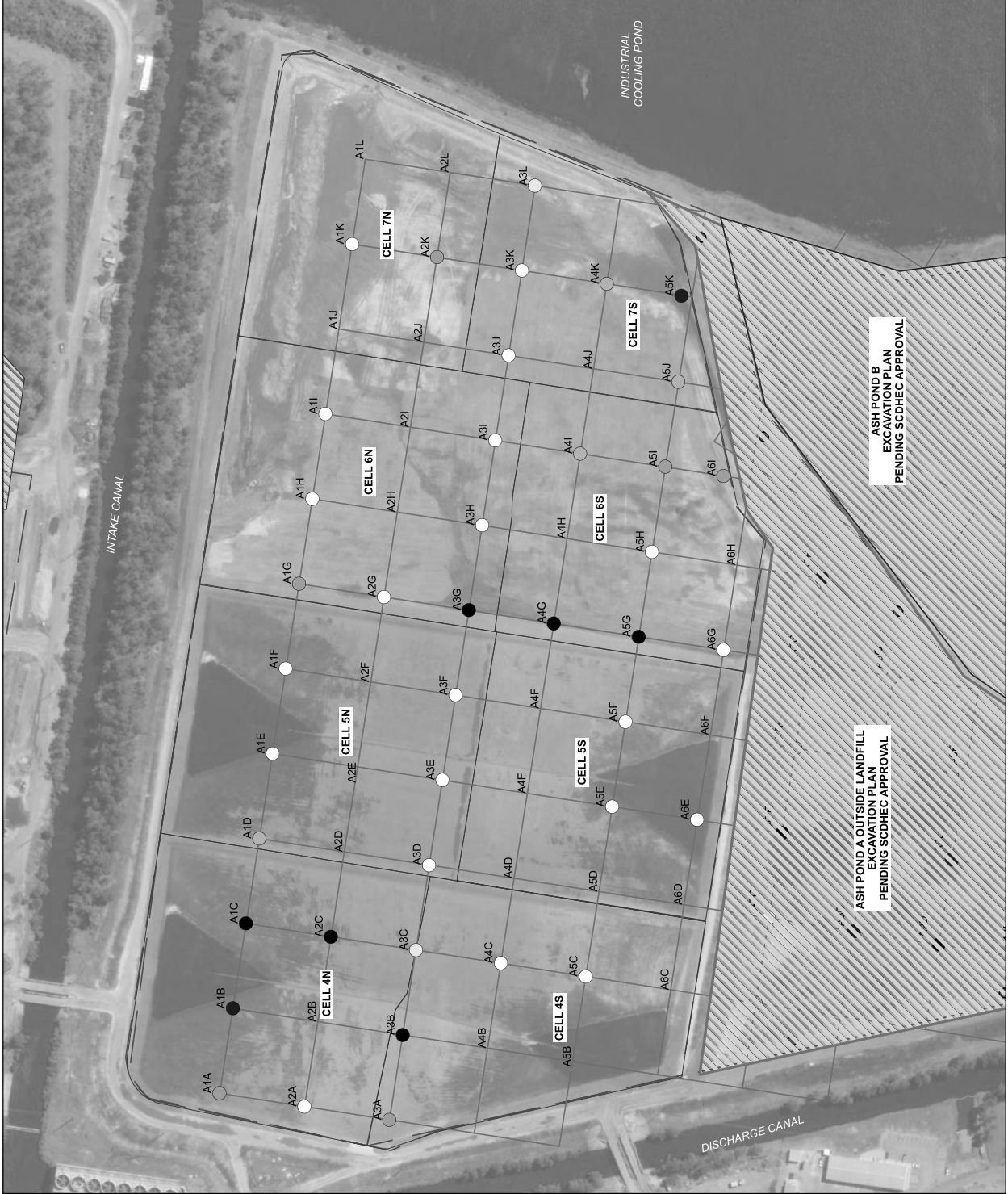
99. 08/15/15 UNPUBLISHED

100. 08/15/15 UNPUBLISHED

PERMIT DRAWING

**APPENDIX B**  
**WGS Ash Pond A and B Subsurface Soil**  
**Analytical Results, Santee Cooper**





**LEGEND**

- 0 inches
- 6 inches
- 12 inches
- 18 inches
- 24 inches
- 30 inches
- >36 inches
- Boring Grid
- Area 2 Landfill Cell (2021)
- CCR UNIT BOUNDARY

**NOTES**

1. ALL BORING LOCATIONS AND DIMENSIONS ARE APPROXIMATE ON THIS EXHIBIT. THE LOCATIONS AND DIMENSIONS WERE MEASURED IN THE FIELD USING A TRIMBLE ROVER R8 - INTEGRATED GNSS SYSTEM.
2. SOIL SAMPLES WERE COLLECTED UP TO A DEPTH OF 24 INCHES EXCEPT FOR LOCATIONS WHERE ADDITIONAL POST-ASH IDENTIFICATION SAMPLING OCCURRED UP TO 36 INCHES BELOW THE ASH/SOIL INTERFACE.
3. THE SOIL SAMPLING PROTOCOL WAS APPROVED BY SCDHEC.
4. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER  
 WINYAH GENERATING STATION  
 GEORGETOWN, SOUTH CAROLINA

**ASH POND A/  
 LANDFILL AREA 2  
 SOIL SAMPLE RESULTS**

APPENDIX B

MARCH 2023

ASH POND B  
 EXCAVATION PLAN  
 PENDING SCDHEC APPROVAL

ASH POND A OUTSIDE LANDFILL  
 EXCAVATION PLAN  
 PENDING SCDHEC APPROVAL



**Legend:**

- Excavated portion of soil samples
- Green text Substituted J-flag value or detection limit for non-detects in which the reporting limit exceeded the target level.
- NA Not analyzed

Landfill Construction Phase	Excavation Depth (inches)	Sample ID	Sample Date	Ash Pond A Target Level (mg/kg)	Constituents													
					milligrams per kilograms (mg/kg)													
					Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
Cells 4 & 5	12	WGS A1A-6	05/05/2020	22	82	13	46	12	290	0.10	9.2	26	0.90	0.14	86			
		WGS A1A-12	05/05/2020	16	14	5.2	<0.53	23	290	<0.022	15	2.1	<0.43	<0.13	7.5			
		WGS A1A-18	05/05/2020	1.8	14	4.1	<0.55	15	300	<0.021	<2.2	2.4	<0.45	<0.14	7			
		WGS A1A-24	05/05/2020	2.1	13	5.2	0.55	<5.76	300	<0.022	<2.2	2.8	0.73	<0.14	9.2			
		Arithmetic Average A1A	05/05/2020	3	11	5.2	<0.5	7.9	230	0.021	<2.0	2.7	0.55	<0.13	8.4			
Cells 4 & 5	30	WGS A1B-6	05/04/2020	5.7	13.0	4.9	0.5	12.8	280	0.022	5.4	2.5	0.54	0.14	8.0			
		WGS A1B-12	05/04/2020	32	<20.0	36	<5.00	<5.00	283	<0.031	30	<20.0	3.2	<0.11	4.1			
		WGS A1B-18	05/04/2020	17	<20.0	21	<5.00	<5.00	213	<0.027	24	<20.0	0.89	<0.12	3.4			
		WGS A1B-24	05/04/2020	20	<20.0	22	<5.00	<5.00	238	<0.030	40	<20.0	<0.59	<0.12	2.7			
		Arithmetic Average A1B	12/01/2020	12	<20.0	13	<5.00	<5.00	169	<0.029	23	<20.0	0.78	<0.13	4.4			
Cells 4 & 5	24	WGS A1C-6	06/04/2020	20.1	20.0	25.1	5.0	5.0	226	0.029	23	20.0	1.4	0.12	3.7			
		WGS A1C-12	06/04/2020	59	8.7	24	1.4	19	170	<0.024	40	<2.4	<0.46	<0.13	5.2			
		WGS A1C-18	06/04/2020	24	6	18	<0.54	9.6	150	<0.023	18	<2.2	0.47	<0.14	<2.7			
		WGS A1C-24	06/04/2020	20	2.4	13	<0.50	14	71	<0.024	9.3	<2.0	<0.47	<0.14	<2.5			
		Arithmetic Average A1C	12/01/2020	8.4	6.2	6.3	<0.54	15	120	<0.024	5.5	<2.2	<0.48	0.054	<2.7			
Cells 4 & 5	6	WGS A1D-6	05/12/2020	27.9	5.8	15.3	0.7	10.4	128	0.024	18.2	2.2	0.47	0.12	3.3			
		WGS A1D-12	05/12/2020	28.2	<20.0	30.9	<5.00	15.9	292	<0.035	29.6	<20.0	0.48	<0.093	4.3			
		WGS A1D-18	05/12/2020	3.83	<20.0	<4.80	<5.00	<5.00	57	<0.034	7.1	<20.0	<0.47	<0.094	1.4			
		WGS A1D-24	05/12/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<50.0	<0.033	8.0	<20.0	<0.49	<0.098	1.6			
		Arithmetic Average A1D	05/12/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<50.0	<0.031	2.8	<20.0	<0.42	<0.083	2.1			
Cells 4 & 5	0	WGS A1E-6	05/12/2020	9.0	20.0	11.3	5.0	7.7	112	0.033	11.9	20.0	0.47	0.09	2.4			
		WGS A1E-12	05/12/2020	7.3	NA	3.9	1.4	<5.78	NA	NA	3	<2.3	0.85	<0.14	4.6			
		WGS A1E-18	05/12/2020	1.7	NA	3.4	0.54	<5.36	NA	NA	<2.1	<2.1	0.63	<0.14	4.2			
		WGS A1E-24	05/12/2020	1.6	NA	3.8	<0.56	<5.43	NA	NA	<2.2	<2.2	<0.46	<0.15	3.2			
		Arithmetic Average A1E	05/12/2020	3.0	NA	3.6	0.8	5.5	NA	NA	2.3	2.2	0.60	<0.14	3.6			
Cells 4 & 5	0	WGS A1F-6	05/05/2020	9.3	<20.0	<4.80	<5.00	<5.00	<50.0	<0.030	3.5	<20.0	<0.43	<0.086	1.9			

Landfill Construction Phase	Excavation Depth	Ash Pond A Target Level (mg/kg)	Constituents													
			Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
WGS-A1F-12	05/05/2020	AE82319	2.67	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	<0.028	1.7	<20.0	<0.52	<0.10	2.0
WGS-A1F-18	05/05/2020	AE82320	2.21	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	<0.036	2.8	<20.0	<0.46	<0.092	2.2
WGS-A1F-24	05/05/2020	AE82321	2.39	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	0.035	4.5	<20.0	<0.52	<0.10	1.9
Arithmetic Average A1F			4.1	20.0	4.8	5.0	5.0	5.0	5.0	5.0	0.032	3.1	20.0	0.48	0.09	2.0
WGS A1G-6	06/04/2020	WGS A1G-6	22	4.6	11	0.9	9.89	70	<0.022	4.8	<0.022	4.8	<2.2	0.49	<0.14	3.8
WGS A1G-12	06/04/2020	WGS A1G-12	12	5.6	6.8	<0.51	11.4	95	<0.024	18	<0.024	18	<2.0	0.92	<0.14	3.9
WGS A1G-18	06/04/2020	WGS A1G-18	9.5	5.2	5.3	<0.58	9.87	91	<0.025	9.2	<0.025	9.2	<2.3	1.30	<0.037	3.5
WGS A1G-24	06/04/2020	WGS A1G-24	11	4	5.9	<0.56	9.91	92	<0.025	7.6	<0.025	7.6	<2.2	0.90	<0.034	3.4
Arithmetic Average A1G			13.6	4.9	7.3	0.6	10.3	87	0.024	9.9	0.024	9.9	2.2	0.90	0.09	3.7
WGS-A1H-6	05/11/2020	AE82322	12	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	<0.032	1.9	<20.0	<0.48	<0.097	2.4
WGS-A1H-12	05/11/2020	AE82323	26	<20.0	9.96	<5.00	<5.00	<5.00	<5.00	89	<0.025	5.1	<20.0	<0.49	<0.098	2.0
WGS-A1H-18	05/11/2020	AE82324	3.9	<20.0	5.56	<5.00	<5.00	<5.00	<5.00	77	<0.037	6.3	<20.0	<0.58	<0.12	3.0
WGS-A1H-24	05/11/2020	AE82325	6.6	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	55	<0.023	2.4	<20.0	<0.53	<0.11	1.9
Arithmetic Average A1H			12.1	20.0	6.3	5.0	5.0	5.0	0.029	3.9	0.029	3.9	20.0	0.52	0.11	2.3
WGS-A1I-6	05/11/2020	WGS-A1I-6	<0.69	NA	3.4	0.83	<5.39	NA	NA	NA	NA	<1.8	<1.8	0.45	<0.14	3.8
WGS-A1I-12	05/11/2020	WGS-A1I-12	<0.71	NA	3.3	0.71	<5.49	NA	NA	NA	NA	<1.9	<1.9	0.49	<0.14	3.7
WGS-A1I-18	05/11/2020	WGS-A1I-18	<0.76	NA	5.3	1.9	<5.77	NA	NA	NA	NA	<2.0	<2.0	0.81	<0.14	3.4
WGS-A1I-24	05/11/2020	WGS-A1I-24	<0.84	NA	3.4	1.6	<5.73	NA	NA	NA	NA	<2.2	<2.2	0.62	<0.15	4
Arithmetic Average A1I			0.8	NA	3.9	1.3	5.6	NA	NA	NA	NA	2.0	2.0	0.59	0.14	3.7
WGS-A1K-6	05/11/2020	WGS-A1K-6	13	NA	2.9	0.98	10	NA	NA	NA	NA	<2.0	<2.0	0.43	<0.14	<2.5
WGS-A1K-12	05/11/2020	WGS-A1K-12	8.7	NA	<2.7	1.3	<5.57	NA	NA	NA	NA	<2.1	<2.1	0.48	<0.14	<2.7
WGS-A1K-18	05/11/2020	WGS-A1K-18	4.2	NA	<2.6	1.9	<5.87	NA	NA	NA	NA	<2.1	<2.1	<0.43	<0.15	<2.6
WGS-A1K-24	05/11/2020	WGS-A1K-24	3.3	NA	<2.5	0.54	<5.73	NA	NA	NA	NA	<2.0	<2.0	<0.40	<0.14	<2.5
Arithmetic Average A1K			7.3	NA	2.7	1.2	6.8	NA	NA	NA	NA	2.1	2.1	0.44	0.14	2.6
WGS-A2A-6	05/05/2020	AE82326	3.2	<20.0	5.4	<5.00	5.4	296	0.053	1.2	<20.0	<20.0	0.53	<0.095	6.6	
WGS-A2A-12	05/05/2020	AE82327	2.8	<20.0	<4.80	<5.00	<5.00	169	0.03	0.71	<20.0	<20.0	<0.55	<0.11	5.5	
WGS-A2A-18	05/05/2020	AE82328	7.6	<20.0	6.8	<5.00	8.7	105	0.029	1.9	<20.0	<20.0	<0.48	<0.097	4.5	
WGS-A2A-24	05/05/2020	AE82329	5.8	<20.0	<4.80	<5.00	19.3	104	<0.029	3.2	<20.0	<20.0	<0.47	<0.093	1.3	
Arithmetic Average A2A			4.9	20.0	5.5	5.0	9.6	169	0.035	1.7	20.0	20.0	0.51	0.10	4.5	
WGS-A2C-6	05/05/2020	AE82330	42	<20.0	25	<5.00	37	164	<0.033	44	<20.0	<20.0	<0.52	<0.10	2.5	
WGS-A2C-12	05/05/2020	AE82331	22	<20.0	13	<5.00	24	136	<0.026	18	<20.0	<20.0	<0.50	<0.10	2.5	
WGS-A2C-18	05/05/2020	AE82332	15	<20.0	9.3	<5.00	17	117	<0.038	14	<20.0	<20.0	<0.56	<0.11	3.8	
WGS-A2C-24	05/05/2020	AE82333	12	<20.0	7.7	<5.00	16	141	<0.036	12	<20.0	<20.0	<0.59	<0.12	2.7	
WGS-A2C-24 V	12/01/2020	AE90042	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	
WGS-A2C-30 V	12/01/2020	AE90043	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	
WGS-A2C-36 V	12/01/2020	AE90044	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	
Arithmetic Average A2C			22.8	20.0	13.7	5.0	15.5	140	0.033	13.9	20.0	20.0	0.54	0.11	2.9	
WGS-A2G-6	05/05/2020	AE82334	12	23	12	<5.00	7.2	99	<0.023	<0.50	<20.0	<20.0	<0.55	<0.11	2.0	

Landfill Construction Phase	Excavation Depth	Ash Pond A Target Level (mg/kg)	Constituents													
			Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
Cells 6 & 7	12	WGS-A2G-12	22	82	13	46	12	290	0.10	9.2	26	0.90	0.14	86		
		AE82335	13	27	18	<5.00	15	235	<0.038	<0.50	<20.0	<0.48	<0.096	3.4		
		WGS-A2G-18	4.4	<20.0	12	<5.00	5.4	139	0.047	<0.50	<20.0	0.55	<0.086	6.5		
		AE82336	<2.00	<20.0	8	<5.00	<5.00	95	<0.031	<0.50	<20.0	<0.54	<0.11	3.2		
Arithmetic Average A2G			7.9	22.6	12.4	5.0	8.2	142	0.035	0.5	20.0	0.53	0.10	3.8		
Cells 4 & 5	12	WGS-A2K-6	72	<20.0	9	<5.00	23	162	<0.031	19	<20.0	<0.51	<0.10	7.0		
		AE82338	30	<20.0	7.5	<5.00	7.4	223	<0.038	<0.50	<20.0	<0.59	<0.12	6.2		
		WGS-A2K-12	5.2	<20.0	6.1	<5.00	<5.00	151	<0.036	<0.50	<20.0	<0.50	<0.10	3.7		
		AE82340	13	<20.0	<4.80	<5.00	<5.00	72	<0.035	<0.50	<20.0	<0.56	<0.11	1.8		
		WGS-A2K-18	30.0	20.0	6.9	5.0	10.2	152	0.035	5.2	20.0	0.54	0.11	4.7		
		AE82341	24	7.1	5.5	0.5	37.5	210	<0.021	13	<1.9	0.37	<0.13	5.6		
		WGS-A3A-6	11	7	7.4	<0.55	19.9	200	<0.023	6.3	<2.2	0.42	0.035	4.6		
		AE82343	3.3	5.3	5.2	<0.54	<5.82	190	<0.024	<2.1	<2.1	0.46	<0.037	<2.0		
WGS-A3A-18	4.3	3.1	8.6	<0.59	<6.06	120	<0.028	<2.4	<2.4	<0.61	<0.13	<2.9				
AE82344	10.7	5.6	6.7	0.5	17.3	180	0.024	6.0	2.2	0.47	0.08	3.8				
Arithmetic Average A3A			22	<20.0	6.9	<5.00	7.2	81	0.083	12	<20.0	<0.45	<0.09	3		
Cells 4 & 5	24	WGS-A3B-6	20	<20.0	15	<5.00	<5.00	137	0.031	7.8	<20.0	0.99	<0.11	2.9		
		AE82343	12	<20.0	8.7	<5.00	<5.00	68	<0.024	6.2	<20.0	<0.48	<0.096	1.3		
		WGS-A3B-18	58	<20.0	49	<5.00	<5.00	371	0.04	44	<20.0	<0.48	<0.095	2.8		
		AE82344	15	NA	15	NA	NA	NA	NA	8.9	NA	NA	NA	NA		
		WGS-A3B-24 V	19	NA	8.3	NA	NA	NA	NA	7.7	NA	NA	NA	NA		
		AE90045	2.3	NA	<4.80	NA	NA	NA	NA	<0.50	NA	NA	NA	NA		
		WGS-A3B-30 V	21.1	20.0	15.4	5.0	5.6	164	0.045	12.5	20.0	0.60	0.10	2.5		
		AE90046	18	9.2	12	1.1	1.4	330	<0.023	22	<2.2	1.50	<0.14	4.8		
WGS-A3B-36 V	6.8	3.9	5.9	0.88	7.3	130	<0.022	11	<2.1	0.67	<0.15	4.1				
Arithmetic Average A3B			4.8	13	3.7	1.1	<5.91	260	<0.023	8.8	<0.44	<0.14	<3.0			
Cells 4 & 5	36	WGS-A3C-6	9.9	4.9	6.7	1.4	7.1	160	<0.025	11	<2.5	0.50	<0.16	4.8		
		AE90048	NA	NA	NA	NA	NA	NA	NA	16	NA	NA	NA	NA		
		WGS-A3C-24 V	NA	NA	NA	NA	NA	NA	NA	16	NA	NA	NA	NA		
		AE90049	NA	NA	NA	NA	NA	NA	NA	16	NA	NA	NA	NA		
		WGS-A3C-30 V	NA	NA	NA	NA	NA	NA	NA	19	NA	NA	NA	NA		
		AE90050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		WGS-A3C-36 V	9.9	7.8	7.1	1.1	8.5	220	0.023	14.7	2.3	0.78	0.15	4.2		
		Arithmetic Average A3C	6.8	<20.0	<4.80	<5.00	16	98.1	<0.032	<0.50	<20.0	<0.48	<0.096	7.6		
Cells 4 & 5	0	WGS-A3D-6	4.7	<20.0	<4.80	<5.00	12	56.3	0.028	<0.50	<20.0	<0.41	<0.083	7.9		
		AE82346	9.8	<20.0	<4.80	<5.00	6.9	64.2	<0.031	<0.50	<20.0	<0.50	<0.10	6.4		
		WGS-A3D-12	10	<20.0	<4.80	<5.00	7.1	53.5	<0.033	<0.50	<20.0	<0.48	<0.096	9.0		
		AE82347	7.9	20.0	4.8	5.0	10.5	68	0.031	0.5	20.0	0.47	0.09	7.7		
		WGS-A3D-18	3.5	NA	11	1.6	<5.91	NA	NA	<2.3	<2.3	0.77	<0.16	3.4		
		AE82348	<0.84	NA	6.7	1.1	<6.35	NA	NA	<2.2	<2.2	0.86	<0.15	<2.8		
		WGS-A3D-24	<0.87	NA	13	0.94	<6.87	NA	NA	<2.3	<2.3	<0.42	<0.16	5		
		AE82349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Arithmetic Average A3D			7.9	20.0	4.8	5.0	10.5	68	0.031	0.5	20.0	0.47	0.09	7.7		
Cells 4 & 5	0	WGS-A3E-6	3.5	NA	11	1.6	<5.91	NA	NA	<2.3	<2.3	0.77	<0.16	3.4		
		AE82349	<0.84	NA	6.7	1.1	<6.35	NA	NA	<2.2	<2.2	0.86	<0.15	<2.8		
		WGS-A3E-12	<0.87	NA	13	0.94	<6.87	NA	NA	<2.3	<2.3	<0.42	<0.16	5		
		AE82349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Landfill Construction Phase	Excavation Depth	Ash Pond A Target Level (mg/kg)	Constituents													
			Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
WGS-A3E-24	06/04/2020	22	<0.86	NA	5	<0.57	<5.77	12	290	0.10	9.2	<2.3	<2.3	0.90	0.14	86
Arithmetic Average A3E		1.5	NA	8.9	1.1	6.2	NA	2.3	NA	NA	2.3	0.63	0.15	3.5		
WGS-A3F-6	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	<0.029	<0.50	<20.0	<20.0	<0.49	<0.097	1.5
WGS-A3F-12	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	0.063	<0.50	<20.0	<20.0	<0.49	<0.098	1.8
WGS-A3F-18	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	<0.027	<0.50	<20.0	<20.0	<0.58	<0.12	1.6
WGS-A3F-24	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<5.00	<5.00	<5.00	<0.030	<0.50	<20.0	<20.0	<0.54	<0.11	2.3
Arithmetic Average A3F		2.0	20.0	4.8	5.0	5.0	5.0	5.0	50	0.037	0.5	20.0	20.0	0.53	0.11	1.8
WGS-A3G-6	06/04/2020	1.4	5.9	14	<0.54	<6.56	180	<2.2	<2.2	<0.12	<2.2	0.88	<0.17	3.7		
WGS-A3G-12	06/04/2020	2.2	16	16	0.62	26	670	<2.3	<2.3	0.075	<2.3	0.96	<0.15	9		
WGS-A3G-18	06/04/2020	4.1	18	23	0.72	24	420	<2.3	<2.3	0.041	<2.3	3.4	<0.13	1.7		
WGS-A3G-24	06/04/2020	3.2	16	23	0.69	19	330	<2.1	<2.1	0.082	<2.1	3.3	<0.14	1.6		
WGS-A3G-24 V	12/01/2020	NA	NA	<4.80	NA	<5.00	172	NA	NA	NA	NA	<0.49	NA	NA	NA	NA
WGS-A3G-30 V	12/01/2020	NA	NA	<4.80	NA	<5.00	118	NA	NA	NA	NA	<0.47	NA	NA	NA	NA
WGS-A3G-36 V	12/01/2020	NA	NA	<4.80	NA	<5.00	118	NA	NA	NA	NA	<0.49	NA	NA	NA	NA
Arithmetic Average A3G		2.7	14.0	12.9	0.6	12.9	287	2.2	2.2	0.080	2.2	2.8	0.78	0.15	11.4	
WGS-A3H-6	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	79	<0.035	<0.50	<0.50	<0.50	<20.0	<20.0	<0.53	<0.11	2.8
WGS-A3H-12	05/07/2020	<2.00	<20.0	<4.80	<5.00	5.5	189	<0.026	<0.50	<0.50	<0.50	<20.0	<20.0	<0.50	<0.099	6.9
WGS-A3H-18	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<5.00	<0.036	<0.50	<0.50	<0.50	<20.0	<20.0	<0.50	<0.10	1.1
WGS-A3H-24	05/07/2020	<2.00	<20.0	<4.80	<5.00	<5.00	<5.00	<0.028	<0.50	<0.50	<0.50	<20.0	<20.0	<0.57	<0.11	0.97
Arithmetic Average A3H		2.0	20.0	4.8	5.0	5.1	92	0.031	0.5	0.031	0.5	20.0	20.0	0.53	0.10	2.9
WGS-A3I-6	05/07/2020	32	34	7.5	5.9	<5.49	90	<0.023	9.6	<0.023	9.6	<2.2	<2.2	1.50	<0.13	9.6
WGS-A3I-12	05/07/2020	9.6	14	7.4	1.7	<5.51	61	<0.024	<2.2	<0.024	<2.2	<2.2	<2.2	<0.45	<0.035	3.2
WGS-A3I-18	05/07/2020	4.4	4.8	3	0.64	<5.79	<33	<0.022	<2.1	<0.022	<2.1	<2.1	<2.1	<0.43	<0.14	<2.7
WGS-A3I-24	05/07/2020	3.6	6.3	<2.7	0.68	<5.79	<34	<0.021	<2.2	<0.021	<2.2	<2.2	<2.2	<0.45	<0.13	<2.7
Arithmetic Average A3I		12.4	14.8	5.2	2.2	5.6	55	0.023	4.0	0.023	4.0	2.2	2.2	0.71	0.11	4.6
WGS-A3J-6	05/07/2020	11.1	<20.0	7.72	<5.00	9.33	108	<0.038	<0.50	<0.038	<0.50	<20.0	<20.0	<0.55	<0.11	5.5
WGS-A3J-12	05/07/2020	2.28	<20.0	7.4	<5.00	<5.00	123	<0.028	<0.50	<0.028	<0.50	<20.0	<20.0	<0.51	<0.10	5.1
WGS-A3J-18	05/07/2020	<2.00	<20.0	7.71	<5.00	<5.00	128	<0.034	<0.50	<0.034	<0.50	<20.0	<20.0	<0.52	<0.10	5.3
WGS-A3J-24	05/07/2020	3.76	<20.0	5.65	<5.00	<5.00	90.3	<0.032	<0.50	<0.032	<0.50	<20.0	<20.0	<0.54	<0.11	4.5
Arithmetic Average A3J		4.8	20.0	7.1	5.0	6.1	112	0.033	0.5	0.033	0.5	20.0	20.0	0.53	0.11	5.1
WGS-A3K-6	05/11/2020	1	NA	<3.1	<0.62	<6.87	NA	NA	<2.5	NA	<2.5	<2.5	<2.5	0.51	<0.18	7.9
WGS-A3K-12	05/11/2020	1.1	NA	<2.6	1.1	<5.79	NA	NA	<2.1	NA	<2.1	<2.1	<2.1	0.50	<0.16	5.5
WGS-A3K-18	05/11/2020	3	NA	<6.9	3.9	<13.0	NA	NA	<5.6	NA	<5.6	<5.6	<5.6	1.50	<0.32	11
WGS-A3K-24	05/11/2020	1.2	NA	<3.9	0.94	<7.64	NA	NA	<3.1	NA	<3.1	<3.1	<3.1	<0.64	<0.20	<3.9
Arithmetic Average A3K		1.6	NA	4.1	1.6	8.3	NA	NA	3.3	NA	3.3	3.3	3.3	0.79	0.22	7.1
WGS-A3L-6	05/11/2020	62	<20.0	22	<5.00	8.4	96	0.033	12	0.033	12	<20.0	<20.0	0.79	<0.092	2.8
WGS-A3L-12	05/11/2020	42	<20.0	19	<5.00	<5.00	60	0.051	3.1	0.051	3.1	<20.0	<20.0	<0.56	<0.11	1.6
WGS-A3L-18	05/11/2020	41	<20.0	26	<5.00	7.4	97	0.054	2.6	0.054	2.6	<20.0	<20.0	<0.57	<0.11	2.7

Landfill Construction Phase	Excavation Depth	Ash Pond A Target Level (mg/kg)	Constituents													
			Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
Cells 4 & 5	0	WGS-A3L-24	22	82	13	46	12	290	0.10	9.2	26	0.90	0.14	86		
		WGS-A3L-24 V	14	<20.0	18	<5.00	<5.00	<50.0	<0.026	1.8	<20.0	<0.48	<0.095	1.6		
		AF18985	NA	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		AF18986	NA	NA	27	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Cells 4 & 5	0	WGS-A3L-30 V	NA	NA	27	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		WGS-A3L-36 V	NA	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		Arithmetic Average A3L	39.7	20.0	22.6	5.0	6.4	76	0.041	4.9	20.0	0.47	0.10	2.2		
		WGS-A4C-6	15	<20.0	12	<5.00	<5.00	166	<0.036	11	<20.0	0.53	<0.099	3.6		
Cells 6 & 7	24	WGS-A4C-12	4.2	<20.0	4.9	<5.00	<5.00	98	<0.039	5.6	<20.0	<0.60	<0.12	3.2		
		WGS-A4C-18	4.1	<20.0	<4.80	<5.00	<5.00	73	<0.041	5.7	<20.0	0.98	<0.12	3.9		
		WGS-A4C-24	2.4	<20.0	<4.80	<5.00	<5.00	<50.0	<0.026	2.5	<20.0	0.69	<0.11	3.0		
		Arithmetic Average A4C	6.4	20.0	6.6	5.0	5.0	97	0.036	6.2	20.0	0.70	0.11	3.4		
Cells 6 & 7	24	WGS-A4G-6	6.9	26	12	<5.00	9.5	310	0.041	<0.50	<20.0	<0.63	<0.13	3.9		
		WGS-A4G-12	<2.00	<20.0	6.4	<5.00	<5.00	477	0.049	<0.50	<20.0	0.94	<0.12	5.4		
		WGS-A4G-18	<2.00	<20.0	20	<5.00	<5.00	729	0.065	<0.50	<20.0	<0.74	<0.15	5.9		
		WGS-A4G-24	<2.00	<20.0	15	<5.00	<5.00	346	0.076	<0.50	<20.0	<0.74	<0.15	5.1		
Cells 6 & 7	6	WGS-A4G-30 V	NA	NA	<5.0	NA	NA	<64	NA	NA	NA	NA	<0.13	NA		
		WGS-A4G-36 V	NA	NA	<5.4	NA	NA	<66	NA	NA	NA	NA	<0.13	NA		
		Arithmetic Average A4G	3.2	21.5	10.0	5.0	6.1	294	0.058	0.5	20.0	0.76	0.14	5.1		
		WGS-A4I-6	88	<20.0	12	<5.00	7.9	86	0.041	21.1	<20.0	<0.58	<0.12	2.4		
Cells 6 & 7	6	WGS-A4I-12	13	<20.0	8.9	<5.00	6.6	146	<0.024	1.78	<20.0	<0.60	<0.12	2.0		
		WGS-A4I-18	5.7	<20.0	5.0	<5.00	<5.00	98	<0.035	<0.50	<20.0	<0.60	<0.12	1.9		
		WGS-A4I-24	5.3	<20.0	<4.80	<5.00	<5.00	104	<0.033	<0.50	<20.0	<0.60	<0.12	2.0		
		Arithmetic Average A4I	27.9	20.0	7.7	5.0	6.1	109	0.033	6.0	20.0	0.60	0.12	2.1		
Cells 6 & 7	6	WGS-A4K-6	84	30	7.6	<5.00	13	184	<0.032	6.3	<20.0	1.20	0.14	6.6		
		WGS-A4K-12	17	<20.0	5.4	<5.00	5.8	136	<0.037	0.64	<20.0	<0.57	<0.11	3.6		
		WGS-A4K-18	<2.00	<20.0	<4.80	<5.00	<5.00	113	<0.033	<0.50	<20.0	<0.55	<0.11	3.6		
		WGS-A4K-24	3.6	29	30	<5.00	<5.00	850	0.11	<0.50	<20.0	<1.1	<0.21	5.9		
Cells 4 & 5	0	Arithmetic Average A4K	26.7	24.9	11.9	5.0	7.1	321	0.053	2.0	20.0	0.74	0.14	4.9		
		WGS-A5C-6	34	NA	21	2.9	<6.36	NA	NA	22	<2.2	1.20	<0.15	4.2		
		WGS-A5C-12	2.9	NA	4.0	1.3	<5.95	NA	NA	3.7	<2.1	0.45	<0.15	<2.6		
		WGS-A5C-18	1.2	NA	<2.6	0.78	<5.83	NA	NA	<2.1	<2.1	<0.43	<0.14	<2.6		
Cells 4 & 5	0	WGS-A5C-24	1.5	NA	<2.8	<0.55	<5.71	NA	NA	<2.2	<0.45	<0.14	<2.8			
		Arithmetic Average A5C	9.9	NA	7.6	1.4	6.0	NA	NA	2.2	0.63	0.15	3.1			
		WGS-A5E-6	14	NA	4.5	1.2	16	NA	NA	<2.1	0.76	<0.14	8.3			
		WGS-A5E-12	1.6	NA	<2.5	<0.50	<5.32	NA	NA	<2.0	<0.41	<0.15	7.1			
Cells 4 & 5	0	WGS-A5E-18	1.3	NA	3.0	<0.47	<5.99	NA	NA	<1.9	<0.38	<0.14	2.4			
		WGS-A5E-24	<0.78	NA	2.7	0.61	<5.89	NA	NA	<2.1	<0.42	<0.15	3.1			
		Arithmetic Average A5E	4.4	NA	3.2	0.7	8.4	NA	NA	2.0	0.49	0.15	5.2			

Landfill Construction Phase Cells 4 & 5	Excavation Depth	Ash Pond A Target Level (mg/kg)	Constituents													
			Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
WGS-A5F-6	0	AE82382	22	82	13	46	12	290	0.10	9.2	26	0.90	0.14	86		
WGS-A5F-12		AE82383	28	60	20	<5.00	<5.00	179	<0.032	1.04	<20.0	0.61	<0.12	3.0		
WGS-A5F-18		AE82384	3.2	<20.0	5.6	<5.00	9.4	332	<0.038	<0.50	<20.0	<0.59	<0.12	4.8		
WGS-A5F-24		AE82385	2.3	<20.0	5.4	<5.00	<5.00	314	0.050	<0.50	<20.0	<0.53	<0.11	7.3		
Arithmetic Average A5F			3.1	<20.0	8.5	<5.00	<5.00	175	0.056	<0.50	<20.0	<0.51	<0.10	8.0		
WGS-A5G-6	24	WGS-A5G-6	9.2	30.0	9.9	5.0	6.1	250	0.044	0.6	20.0	0.56	0.11	5.8		
WGS-A5G-12		WGS-A5G-12	1.5	16	14	1.5	<6.78	350	<0.028	<2.8	<2.8	0.59	0.063	6.1		
WGS-A5G-18		WGS-A5G-18	<1.0	6.2	11	4.9	<7.71	290	0.046	<2.7	<2.7	1.0	<0.046	4.9		
WGS-A5G-24		WGS-A5G-24	<1.1	4.6	11	4.8	<7.30	120	0.061	<2.9	<2.9	0.95	<0.038	3.8		
WGS-A5G-24V		AF18991	<0.89	11	5.3	3.0	<6.29	330	0.07	<2.4	<2.4	1.1	0.069	11		
WGS-A5G-30V		AF18992	NA	NA	NA	NA	NA	33	NA	NA	NA	<0.57	NA	NA		
WGS-A5G-36V		AF18993	NA	NA	NA	NA	NA	170	NA	NA	NA	<0.59	NA	NA		
Arithmetic Average A5G			1.1	9.5	10.3	3.6	7.0	221	0.051	2.7	2.7	0.78	0.05	6.5		
WGS-A5H-6	0	AE82446	16	<20.0	5.4	<5.00	<5.00	123	<0.034	4.0	<20.0	<0.52	<0.10	2.1		
WGS-A5H-12		AE82447	13	<20.0	6.5	<5.00	<5.00	148	<0.039	1.4	<20.0	<0.57	<0.11	1.1		
WGS-A5H-18		AE82448	3.7	<20.0	<4.80	<5.00	<5.00	62	<0.038	<0.50	<20.0	<0.52	<0.10	1.0		
WGS-A5H-24		AE82449	4.2	<20.0	<4.80	<5.00	<5.00	87	<0.027	<0.50	<20.0	<0.55	<0.11	2.4		
Arithmetic Average A5H			9.0	20.0	5.4	5.0	5.0	105	0.035	1.6	20.0	0.54	0.11	1.7		
WGS-A5I-6	12	AE79003	26	23	17	<0.71	34	350	<0.028	<2.8	<2.8	1.10	0.076	5.7		
WGS-A5I-12		AE79004	4.8	8.8	6.6	0.62	14	340	<0.021	<2.1	<2.1	0.47	0.046	6.8		
WGS-A5I-18		AE79005	5.6	10	5.1	0.78	9.6	490	<0.023	<2.4	<2.4	<0.48	0.076	10		
WGS-A5I-24		AE79006	6.7	6.5	4.7	0.6	8.6	330	<0.022	<1.9	<1.9	<0.35	0.037	7.9		
Arithmetic Average A5I			10.8	12.1	8.4	0.7	16.5	378	0.024	2.3	2.3	0.60	0.06	7.6		
WGS-A5J-6	6	AE82386	71	58	12	5.6	33	372	<0.032	20	<20.0	0.90	0.16	15		
WGS-A5J-12		AE82387	14	<20.0	6.4	<5.00	<5.00	159	<0.024	2.7	<20.0	<0.58	<0.12	6.0		
WGS-A5J-18		AE82388	8.0	<20.0	6.5	<5.00	9.8	187	<0.022	1.9	<20.0	<0.54	<0.11	5.0		
WGS-A5J-24		AE82389	7.4	<20.0	8.5	<5.00	<5.00	139	0.037	2.3	<20.0	<0.56	<0.11	3.0		
Arithmetic Average A5J			25.1	29.6	8.3	5.1	13.3	214	0.029	6.7	20.0	0.65	0.13	7.3		
WGS-A5K-6	30	WGS-A5K-6	103	25.2	14	<5.00	14.9	145	NA	21	<20.0	2.31	<0.15	<20.0		
WGS-A5K-12		WGS-A5K-12	86.6	<20.0	36	<5.00	11.6	143	NA	2.8	<20.0	<2.00	<0.15	<20.0		
WGS-A5K-18		WGS-A5K-18	48.9	<20.0	33	<5.00	5.79	118	NA	1.1	<20.0	<2.00	<0.13	<20.0		
WGS-A5K-24		WGS-A5K-24	19.9	<20.0	15	<5.00	<5.00	71	NA	<0.50	<20.0	<2.00	<0.15	<20.0		
WGS-A5K-24V		AF19704	NA	NA	15	NA	NA	NA	<0.027	NA	NA	NA	<0.13	NA		
WGS-A5K-30V		AF19705	NA	NA	8.9	NA	NA	NA	<0.025	NA	NA	NA	<0.12	NA		
WGS-A5K-36V		AF19706	NA	NA	40	NA	NA	NA	0.031	NA	NA	NA	<0.095	NA		
Arithmetic Average A5K			64.6	21.3	23.0	5.0	9.3	119	0.028	6.3	20.0	2.08	0.13	20.0		
WGS-A6E-6	0	AE82390	<2.00	<20.0	<4.80	<5.00	<5.00	131	<0.025	<0.50	<20.0	<0.55	<0.11	2.0		
WGS-A6E-12		AE82391	<2.00	<20.0	<4.80	<5.00	<5.00	153	<0.030	<0.50	<20.0	<0.53	<0.11	2.2		

Landfill Construction Phase	Excavation Depth	Ash Pond A Target Level (mg/kg)	Constituents													
			Arsenic	Barium	Boron	Copper	Lithium	Magnesium	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium		
WGS-A6E-18	05/06/2020	AE82392	22	82	13	46	12	290	0.10	9.2	26	0.90	0.14	86		
WGS-A6E-24	05/06/2020	AE82393	3.7	<20.0	10	<5.00	<5.00	369	<0.035	<0.50	<20.0	<0.60	<0.12	2.8		
Arithmetic Average A6E			3.0	<20.0	15	<5.00	<5.00	365	0.12	<0.50	<20.0	<1.3	<0.26	7.1		
WGS-A6G-6	05/13/2020	AE82394	2.7	20.0	8.8	5.0	5.0	255	0.053	0.5	20.0	0.75	0.15	3.5		
WGS-A6G-12	05/13/2020	AE82395	8.2	<20.0	<4.80	<5.00	<5.00	<50.0	<0.030	0.51	<20.0	<0.61	<0.12	2.3		
WGS-A6G-18	05/13/2020	AE82396	4.0	<20.0	<4.80	<5.00	<5.00	<50.0	<0.033	<0.50	<20.0	<0.53	<0.11	1.2		
WGS-A6G-24	05/13/2020	AE82397	6.5	<20.0	<4.80	<5.00	<5.00	<50.0	<0.029	<0.50	<20.0	<0.61	<0.12	2.2		
Arithmetic Average A6G			8.8	<20.0	5.1	<5.00	<5.00	<50.0	0.035	1.2	<20.0	<0.54	<0.11	2.3		
WGS-A6I-6	07/21/2020	AE82398	6.9	20.0	4.9	5.0	5.0	50	0.032	0.7	20.0	0.57	0.12	2.0		
WGS-A6I-12	07/21/2020	AE82399	59	55	10	7.8	14	242	<0.044	4.2	<20.0	2.3	0.21	1.1		
WGS-A6I-18	07/21/2020	AE82400	26	42	21	5.3	12	381	<0.053	3.2	<20.0	0.92	<0.15	1.3		
WGS-A6I-24	07/21/2020	AE82401	<2.00	<20.0	9.7	<5.00	<5.00	255	<0.037	1.3	<20.0	<0.52	<0.10	5.9		
Arithmetic Average A6I			5.6	<20.0	7.9	<5.00	16	295	0.032	1.1	<20.0	0.75	0.14	5.7		
			23.2	34.2	12.1	5.8	11.7	293	0.042	2.4	20.0	1.12	0.15	8.9		

Average Excavation Depth:  
9.1 Inches

## **APPENDIX C**

### **Hydrographs**

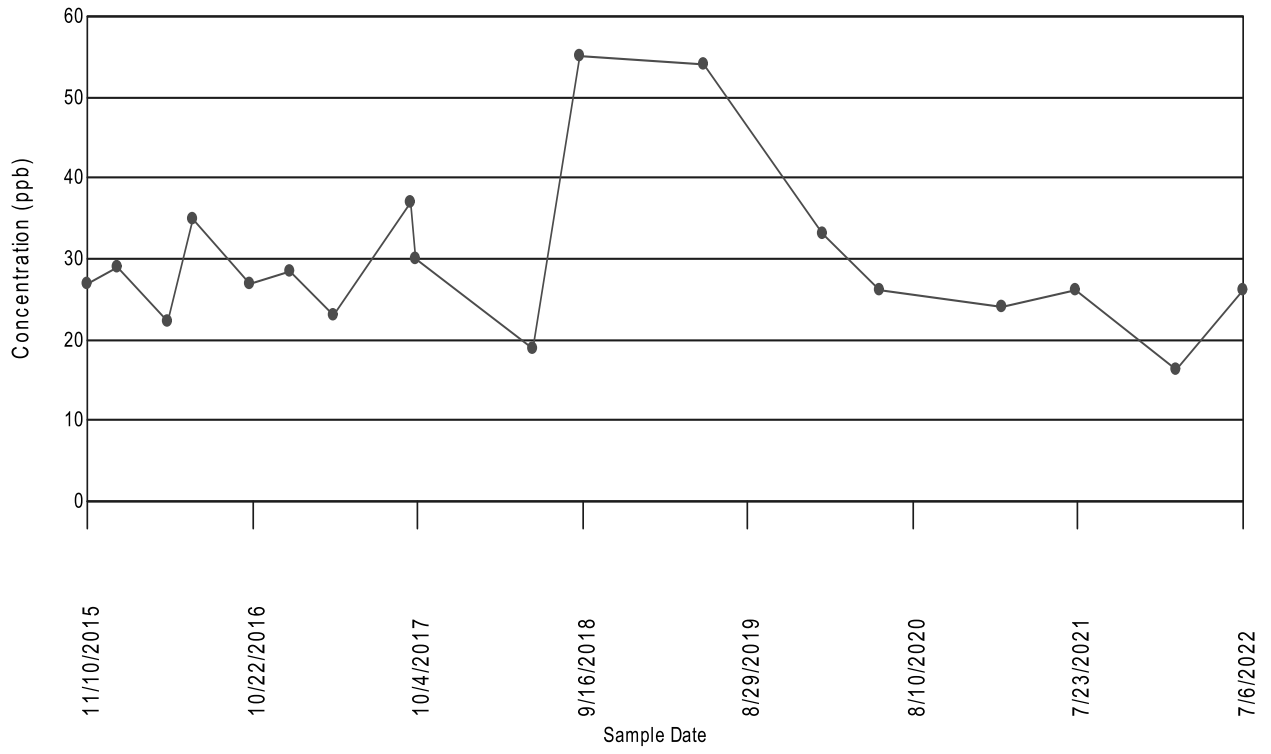




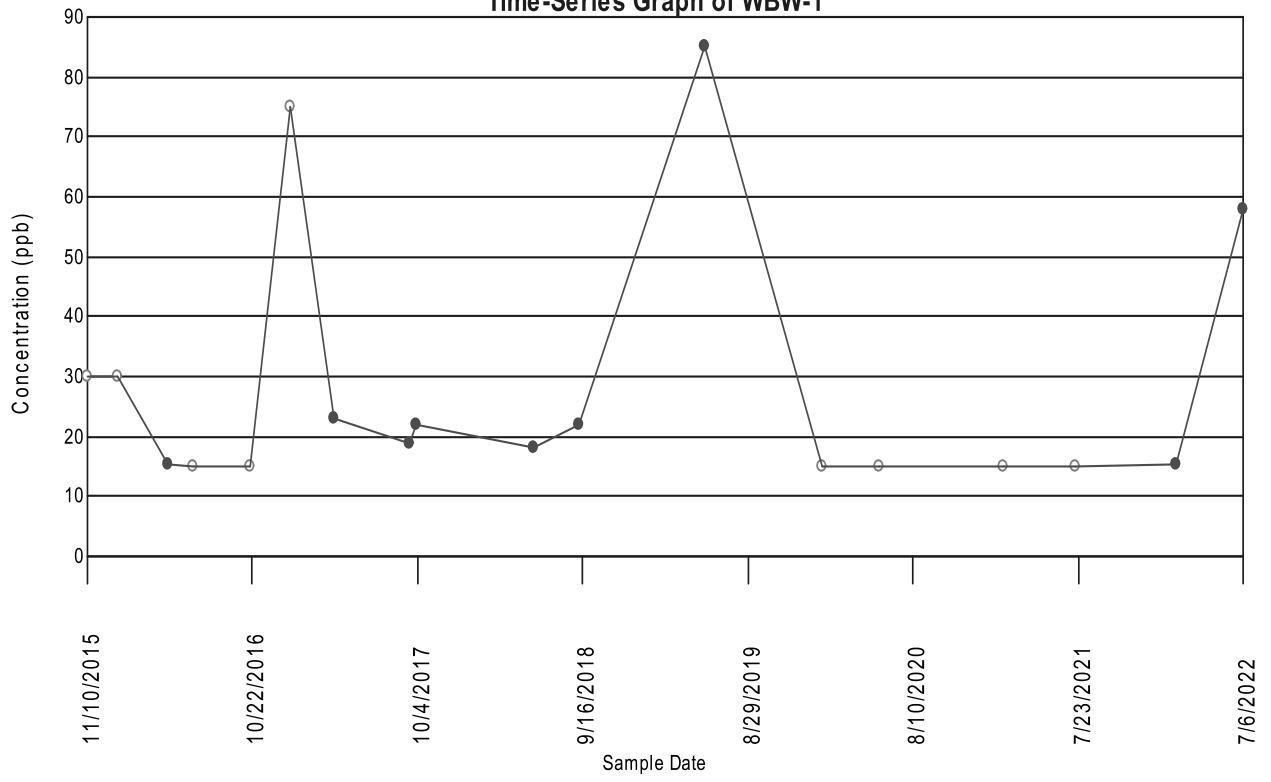


**APPENDIX D**  
**Time-Series Plots for Appendix III Constituents,**  
**Landfill Area 2, Ash Ponds A and B Monitoring Wells**

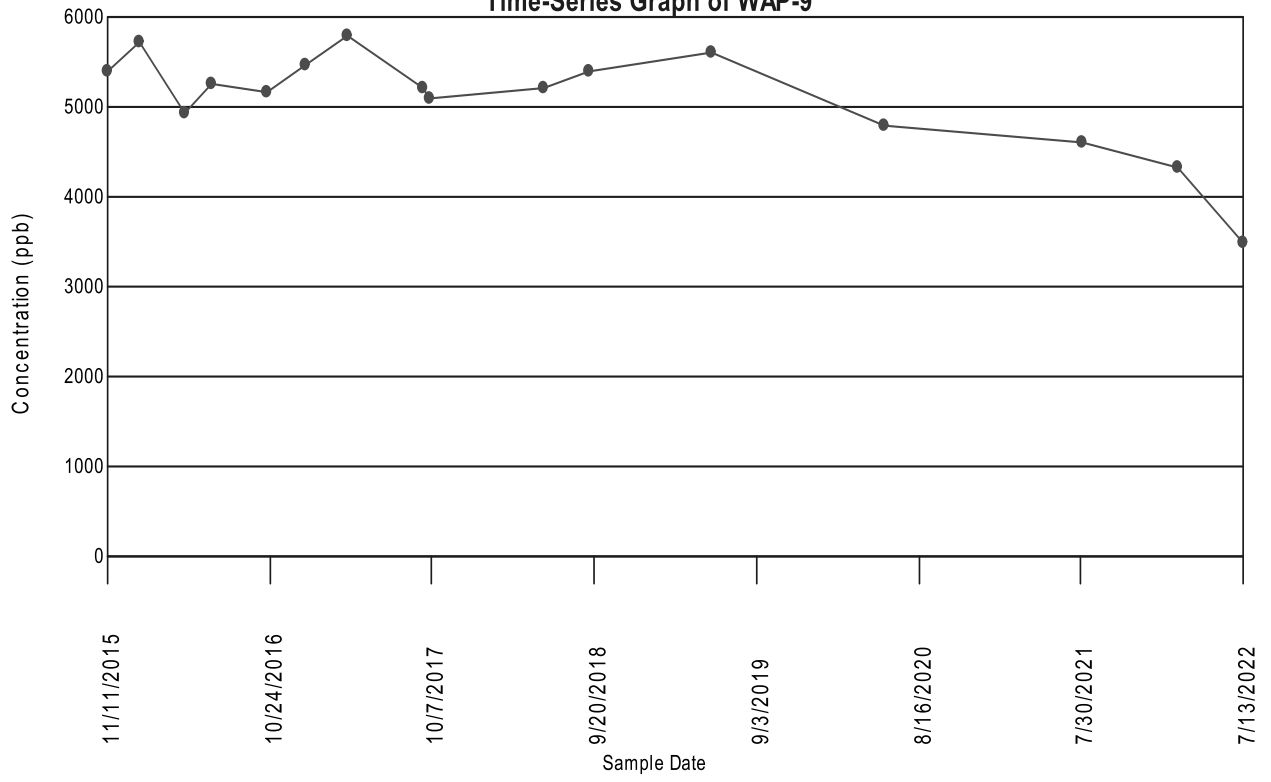
**Boron**  
**Time-Series Graph of WAP-1**



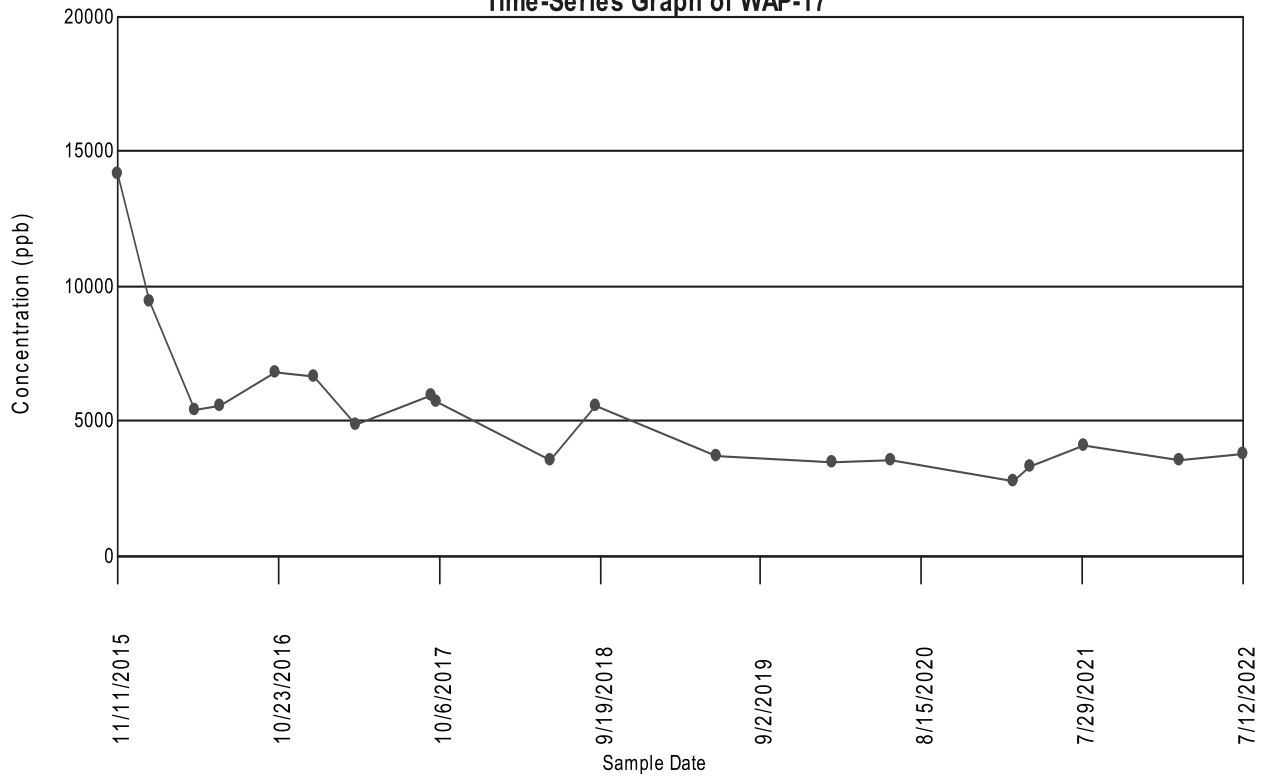
**Boron**  
**Time-Series Graph of WBW-1**



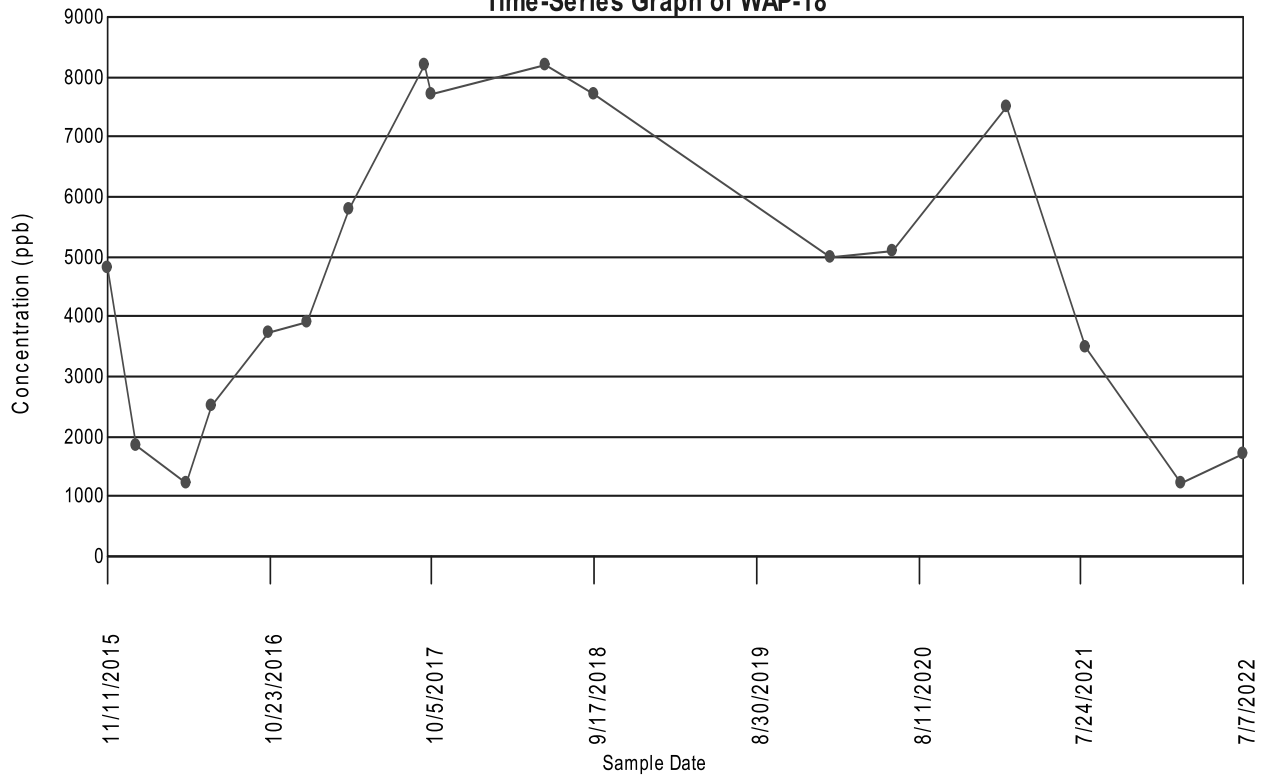
**Boron**  
**Time-Series Graph of WAP-9**



Boron  
Time-Series Graph of WAP-17

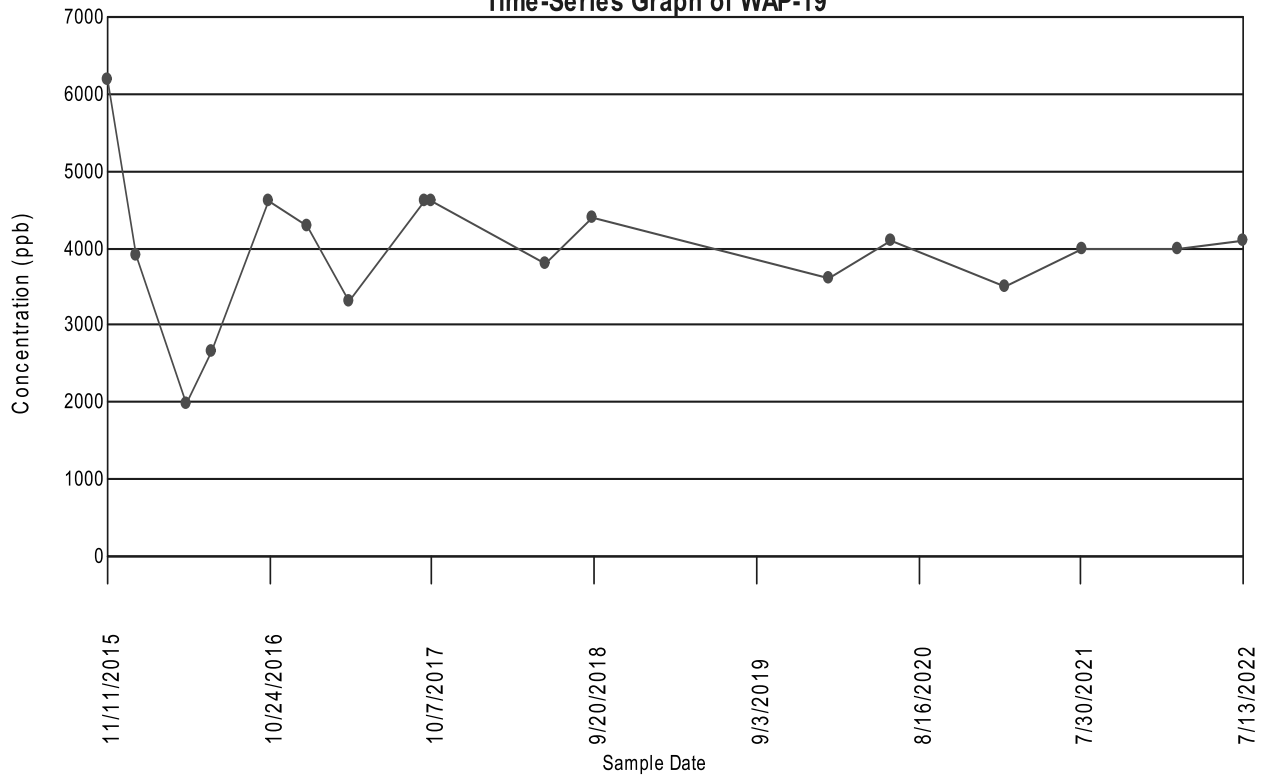


**Boron**  
**Time-Series Graph of WAP-18**

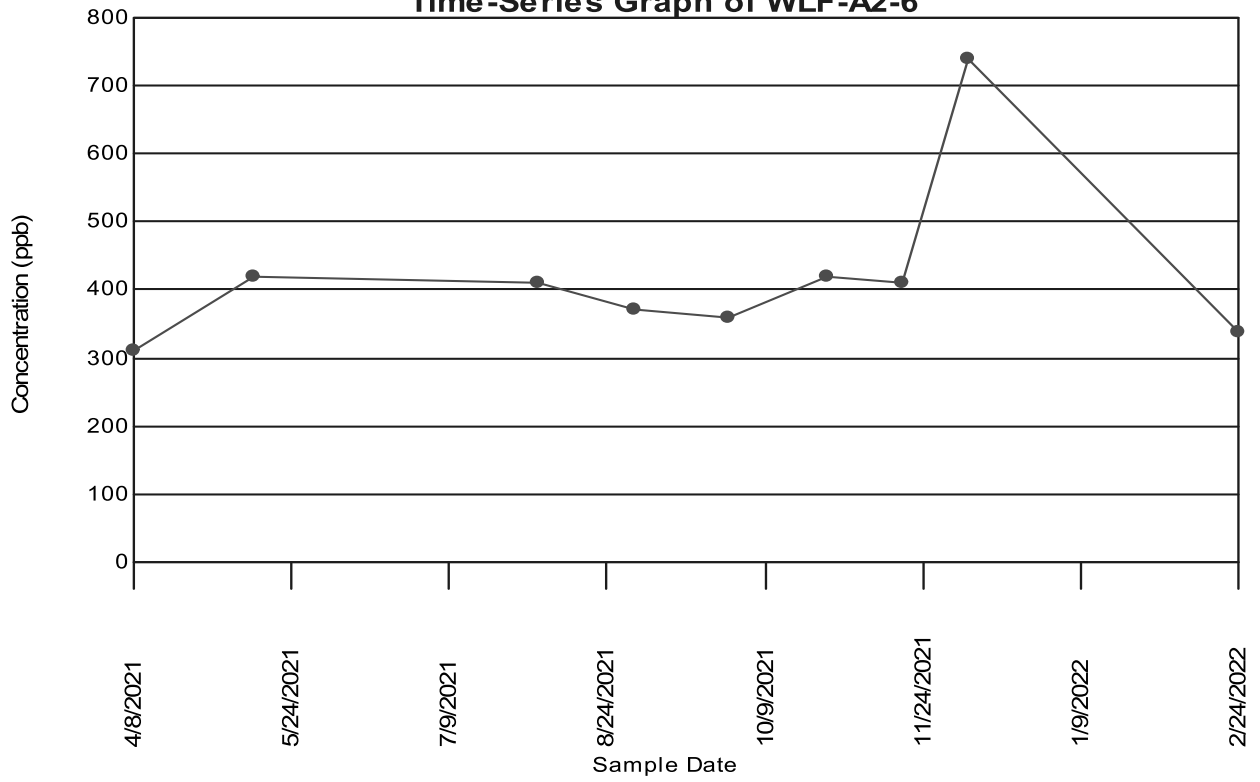




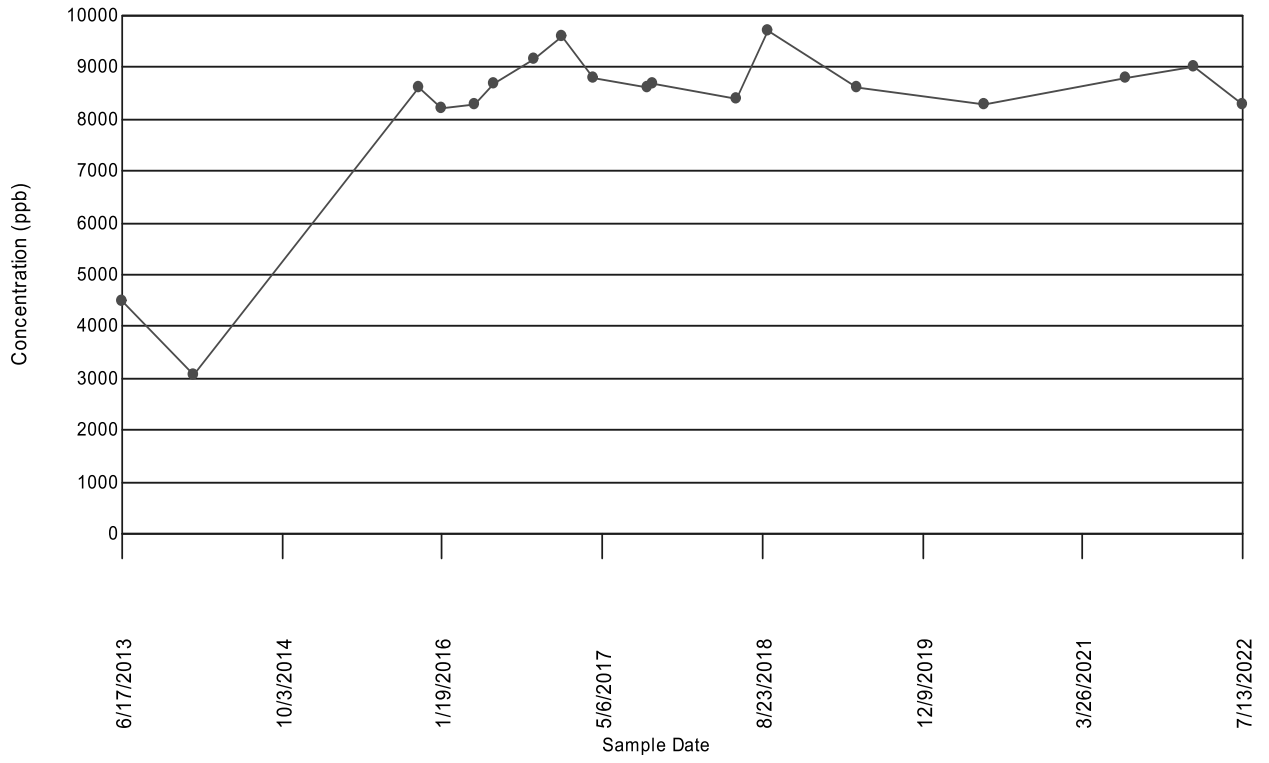
**Boron**  
**Time-Series Graph of WAP-19**



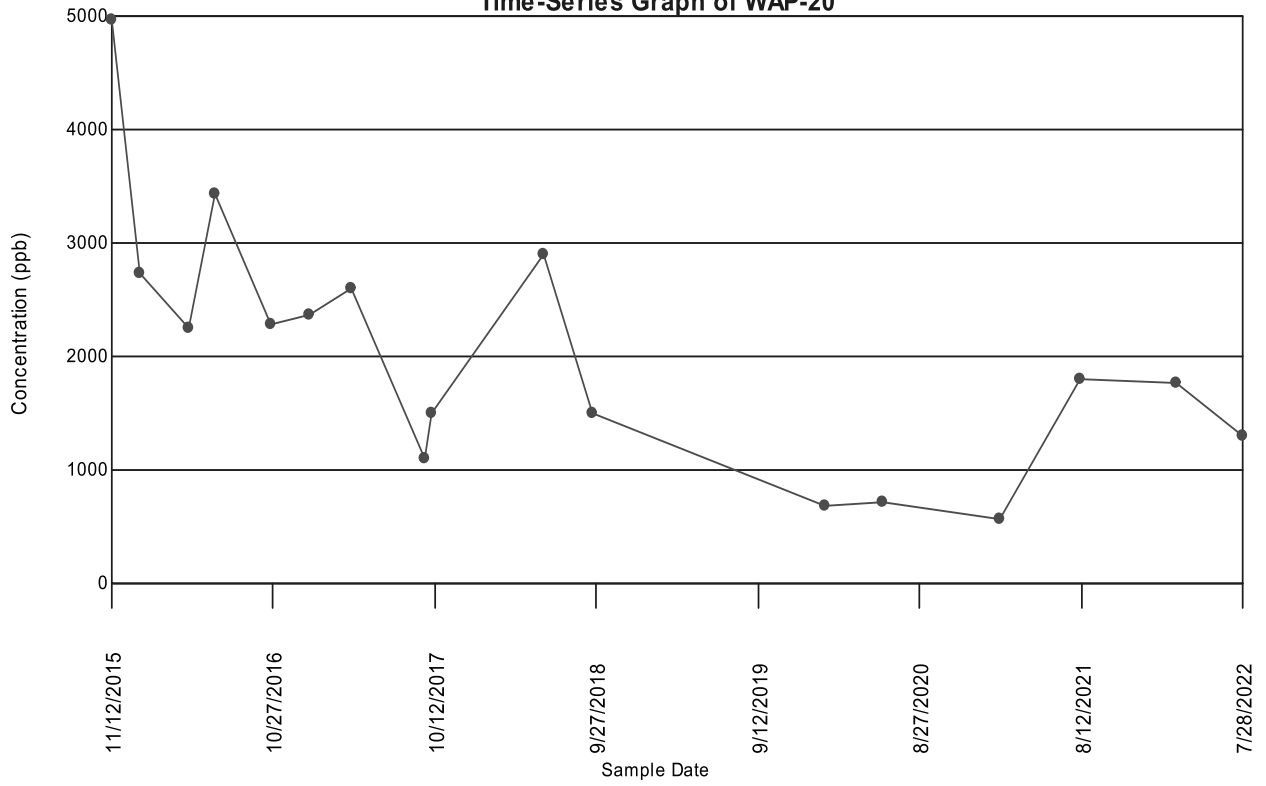
**Boron**  
**Time-Series Graph of WLF-A2-6**



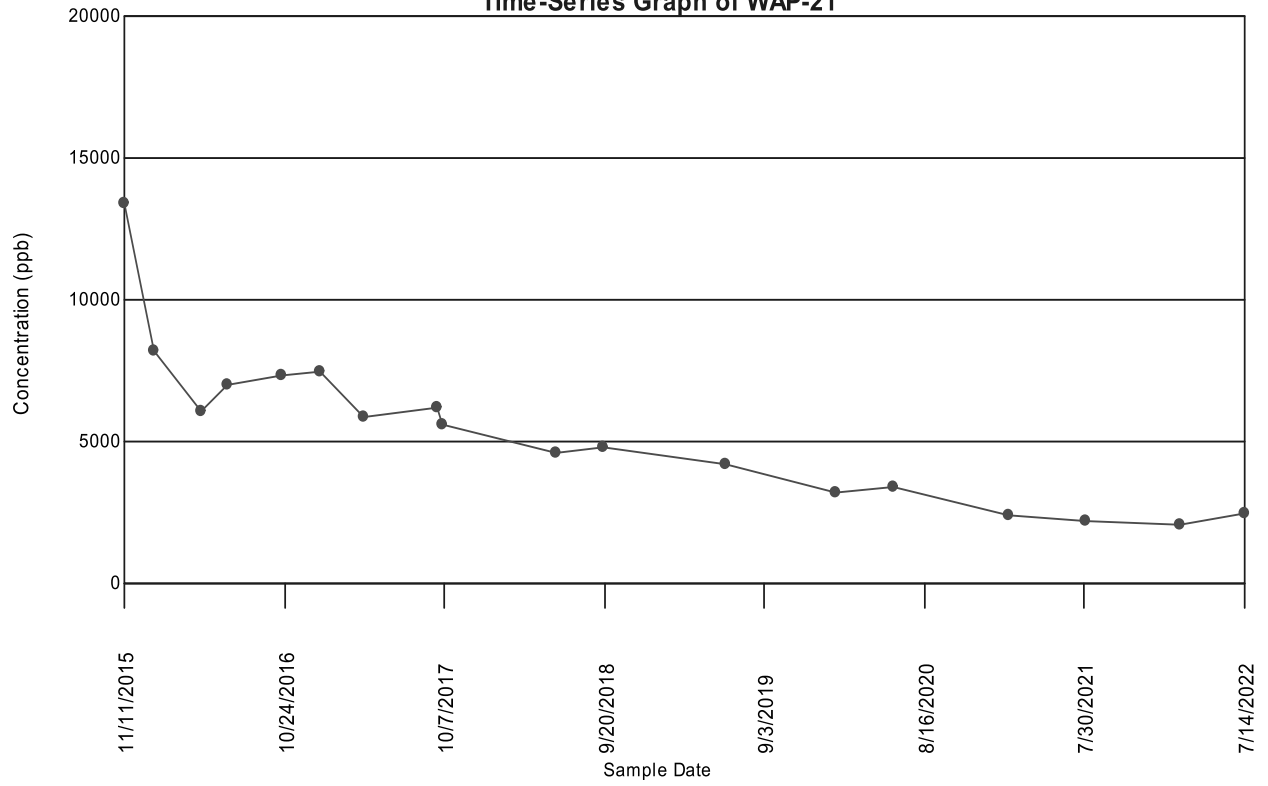
**Boron**  
**Time-Series Graph of WAP-10**



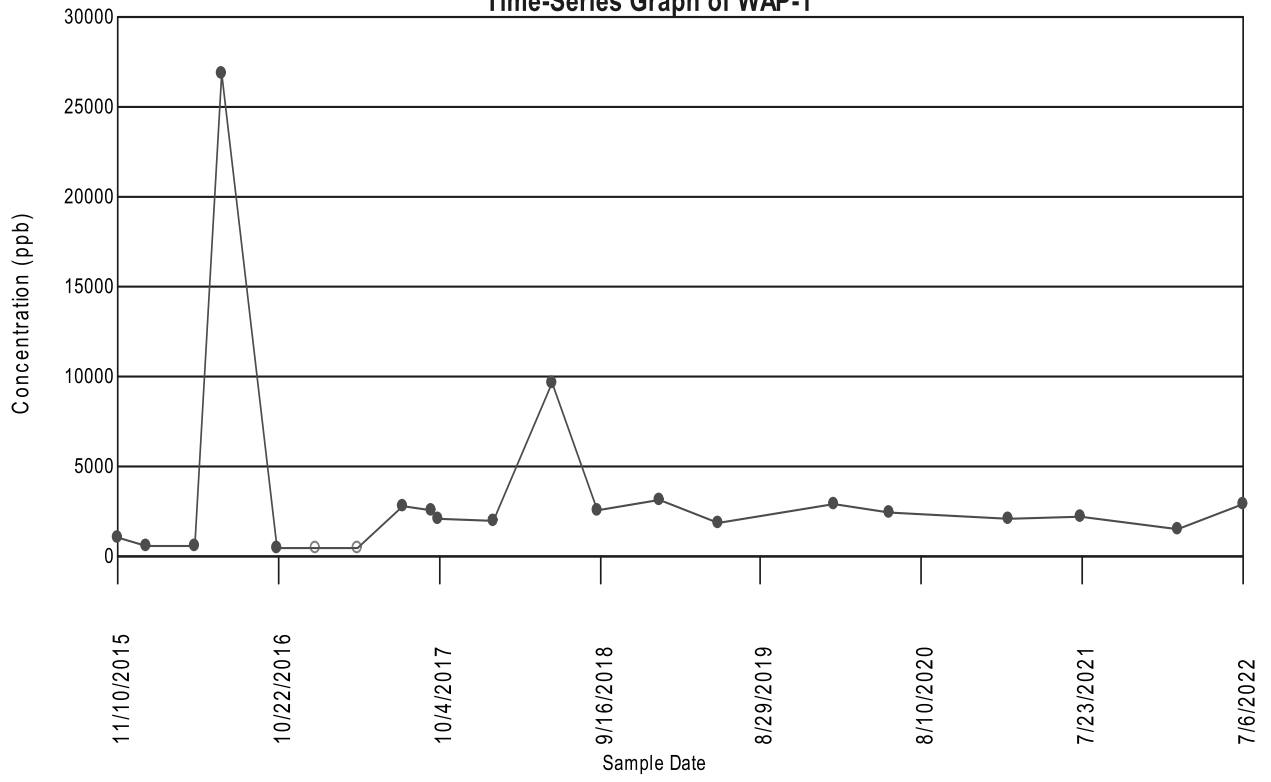
**Boron**  
**Time-Series Graph of WAP-20**



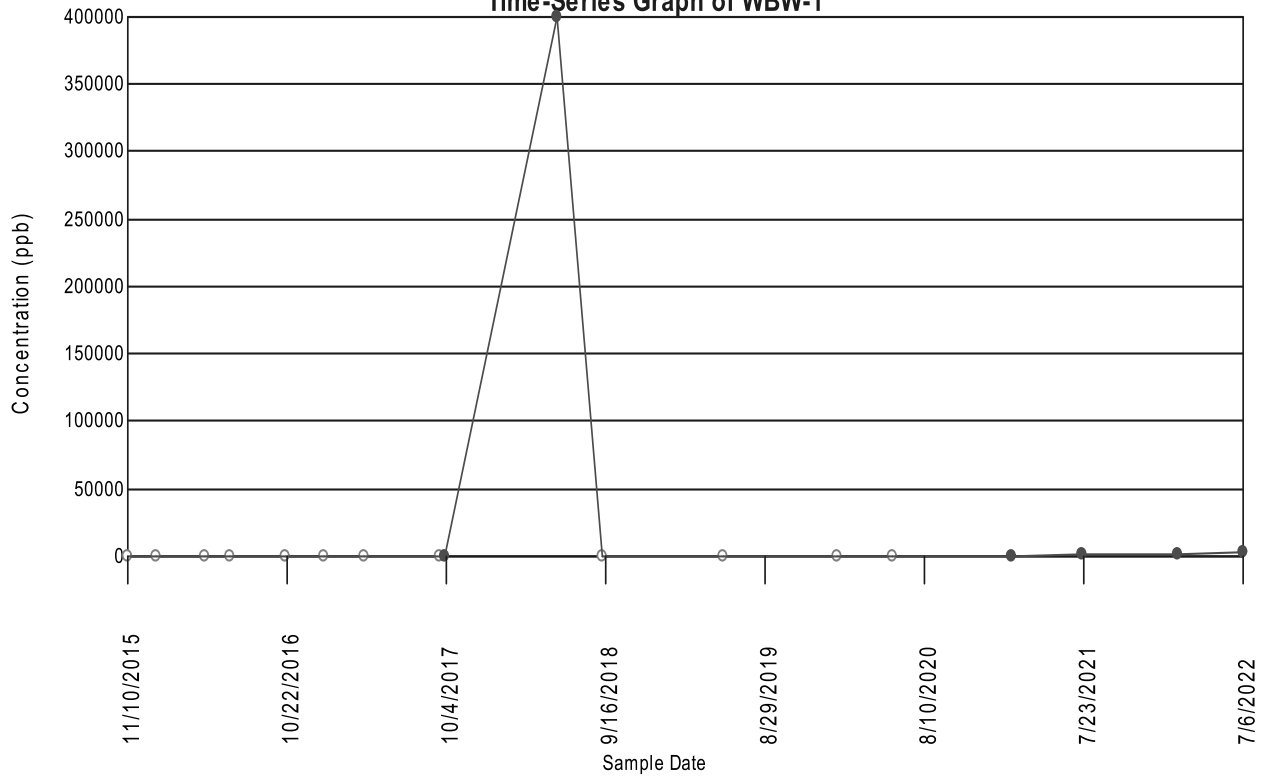
**Boron**  
**Time-Series Graph of WAP-21**



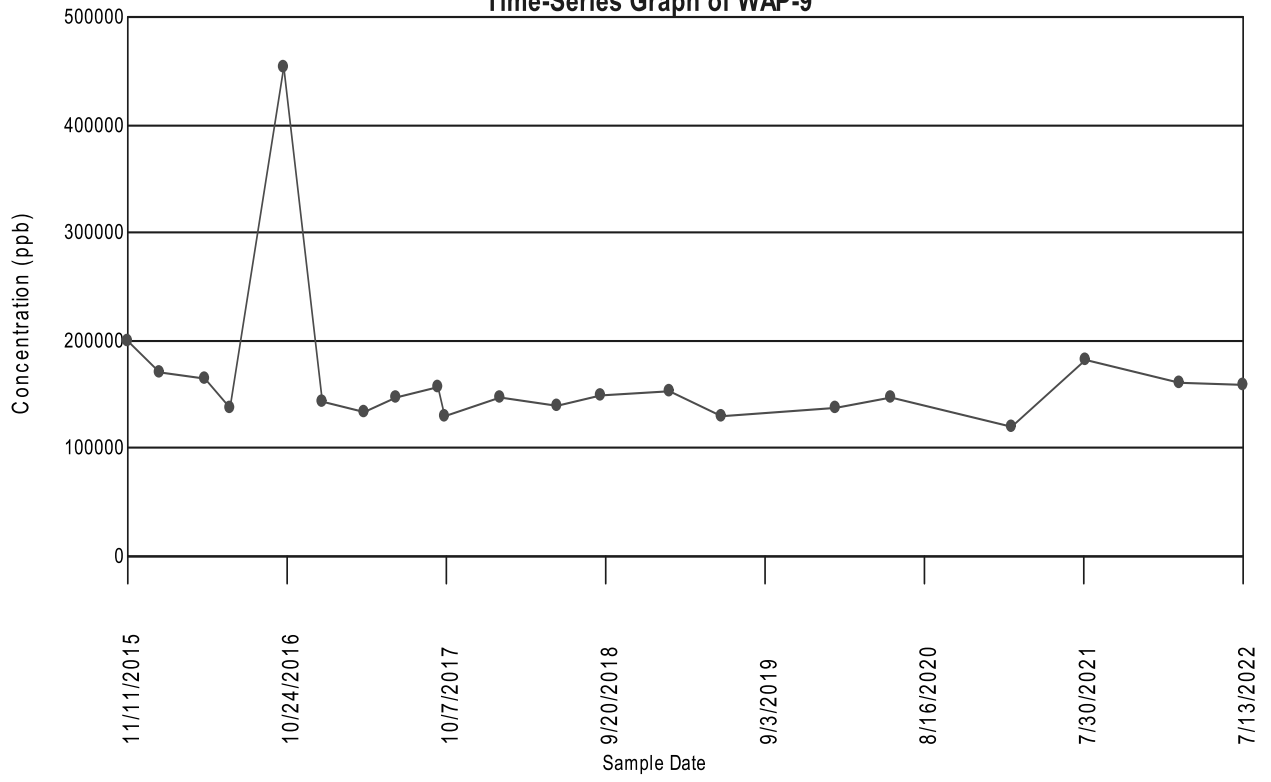
Calcium  
Time-Series Graph of WAP-1



Calcium  
Time-Series Graph of WBW-1

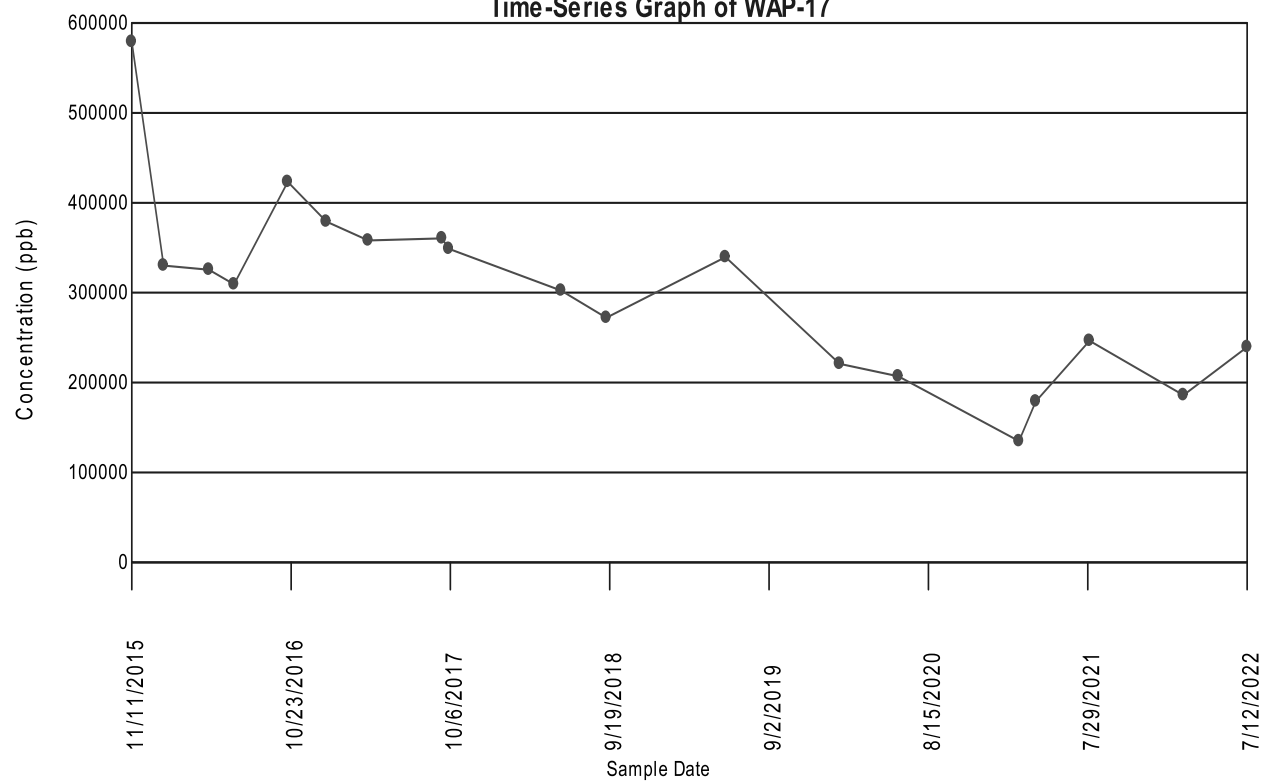


Calcium  
Time-Series Graph of WAP-9

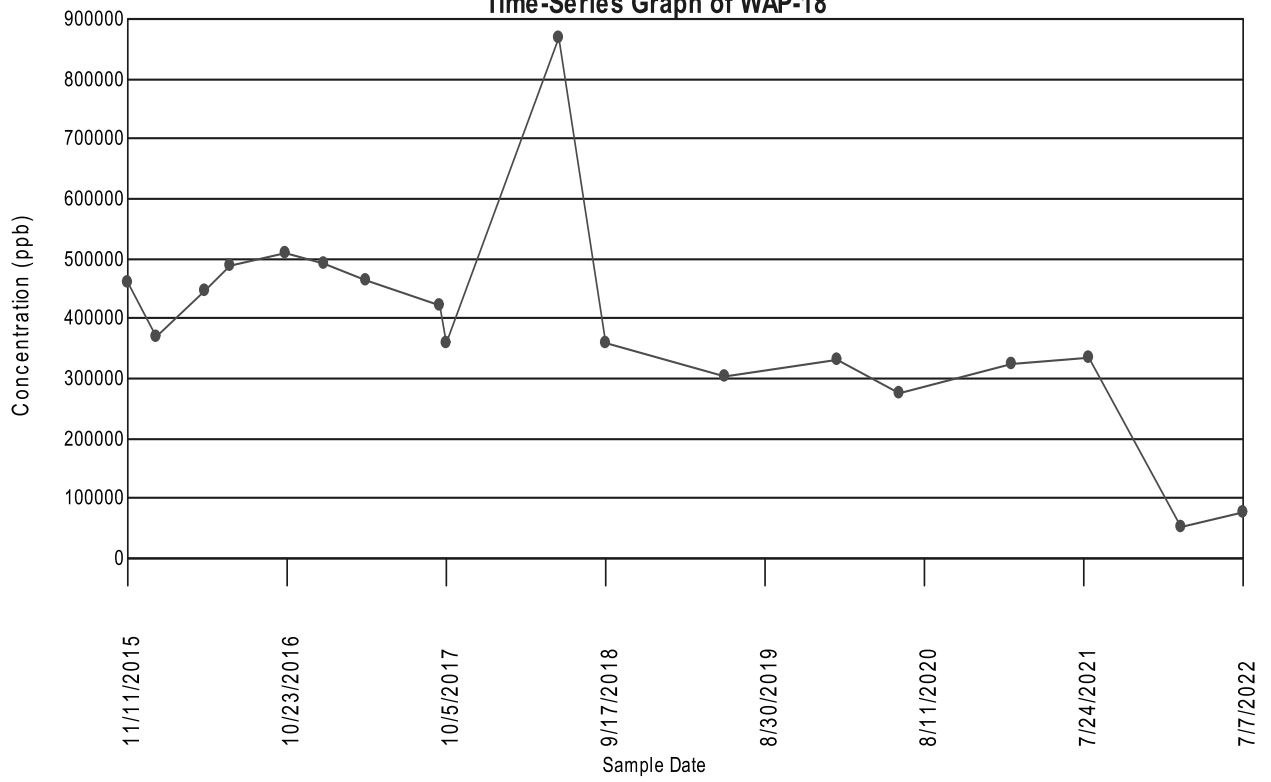




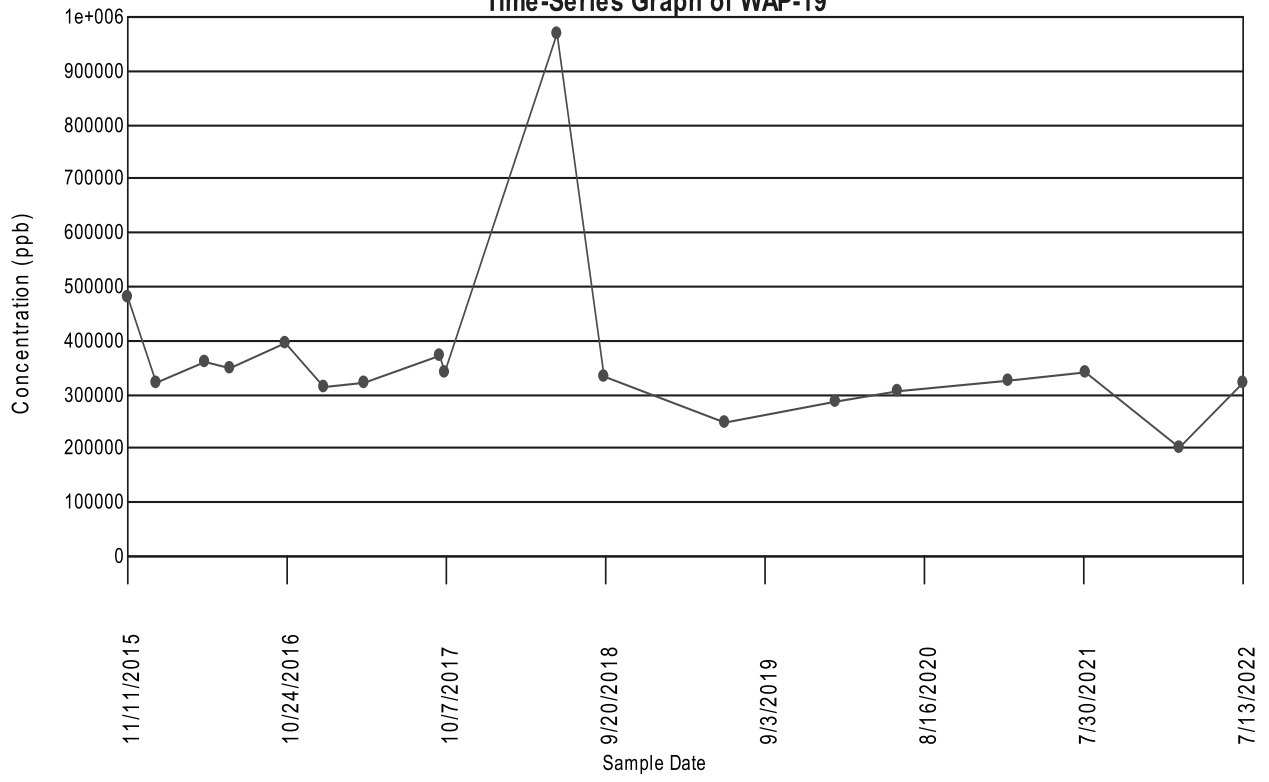
Calcium  
Time-Series Graph of WAP-17



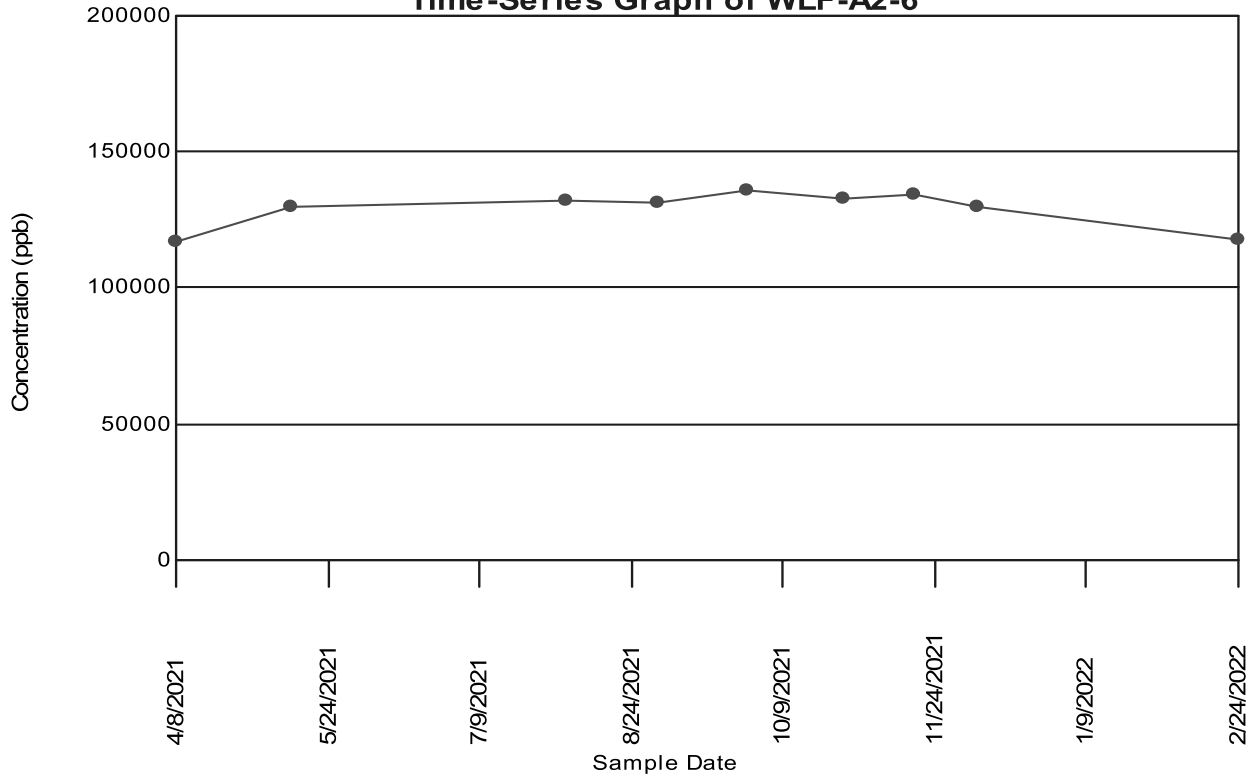
Calcium  
Time-Series Graph of WAP-18



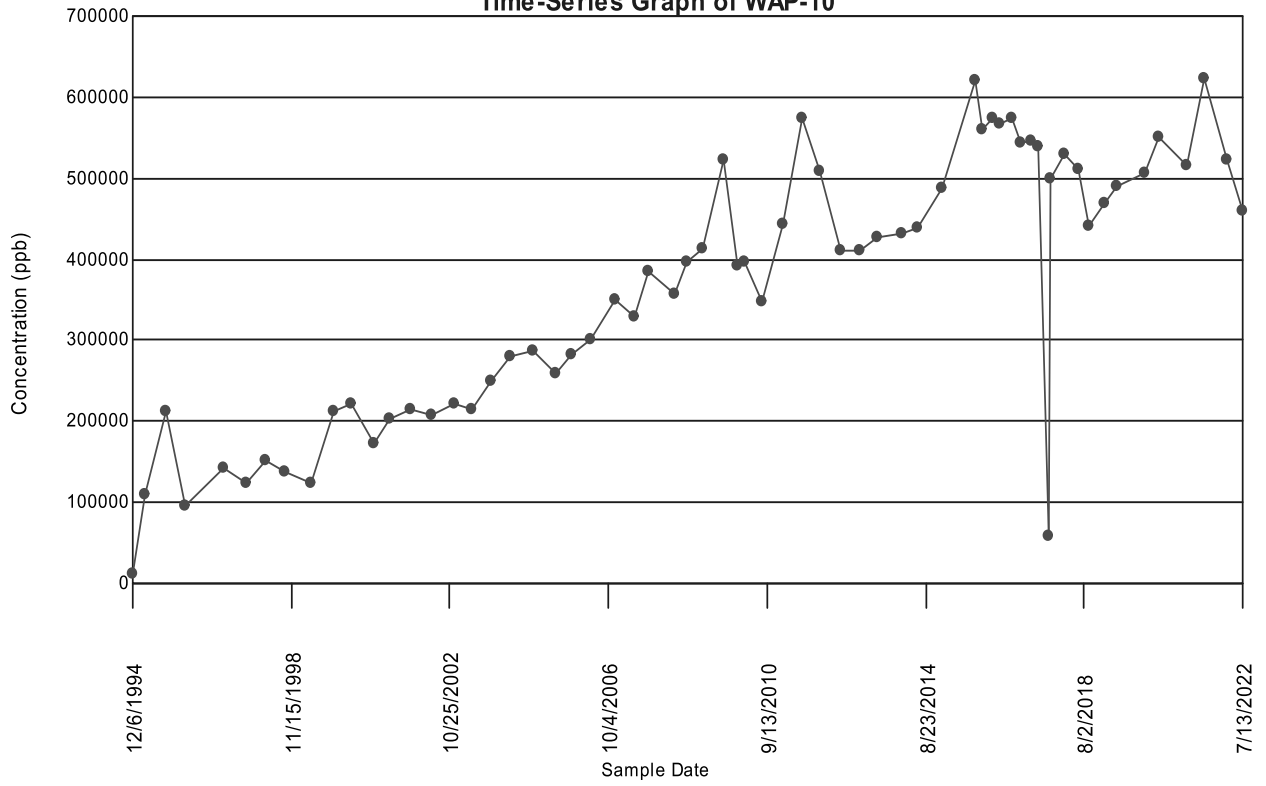
Calcium  
Time-Series Graph of WAP-19



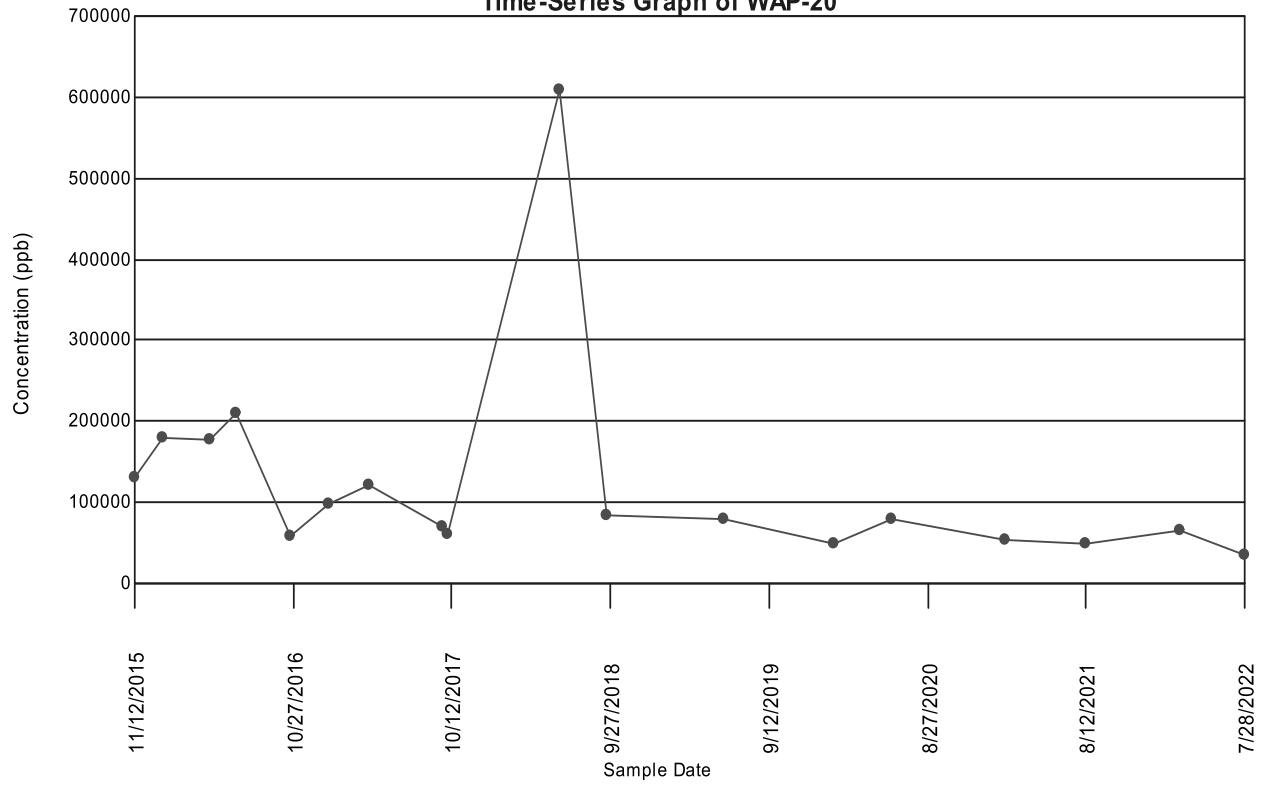
# Calcium Time-Series Graph of WLF-A2-6



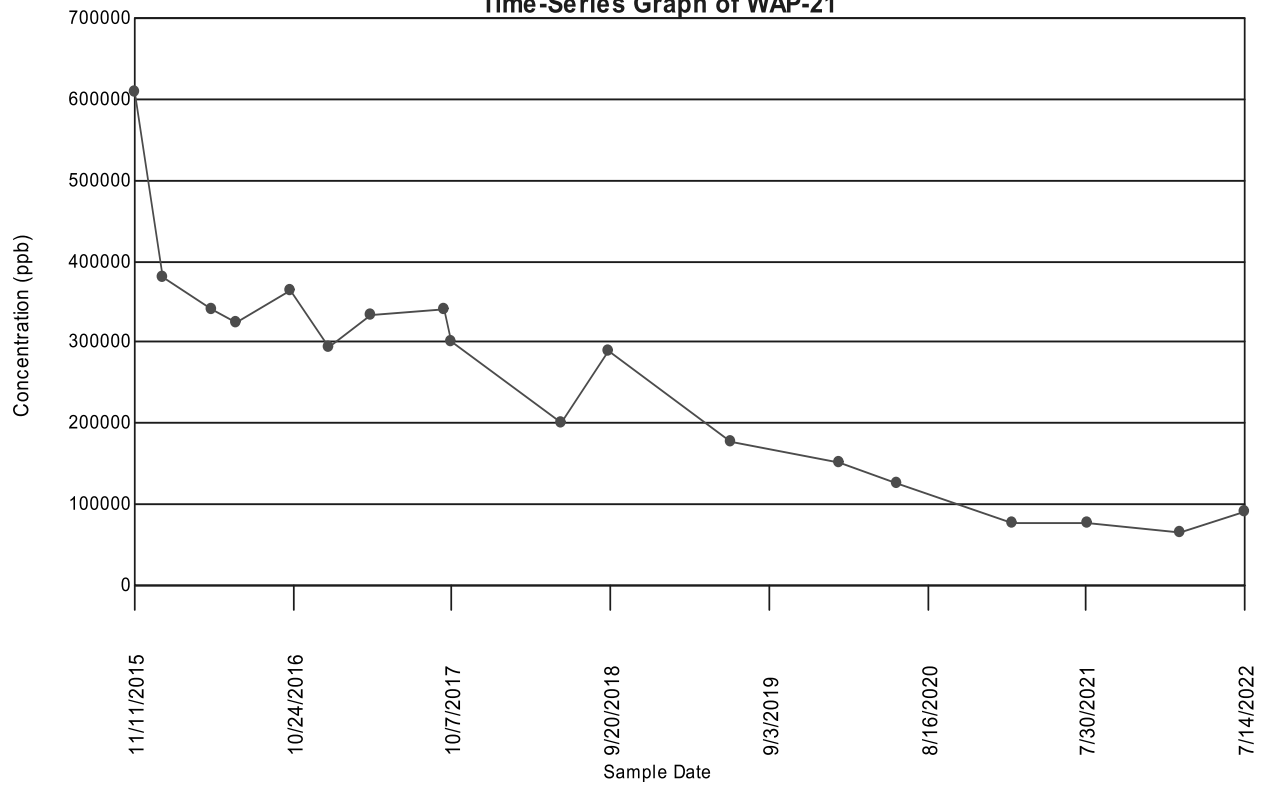
Calcium  
Time-Series Graph of WAP-10



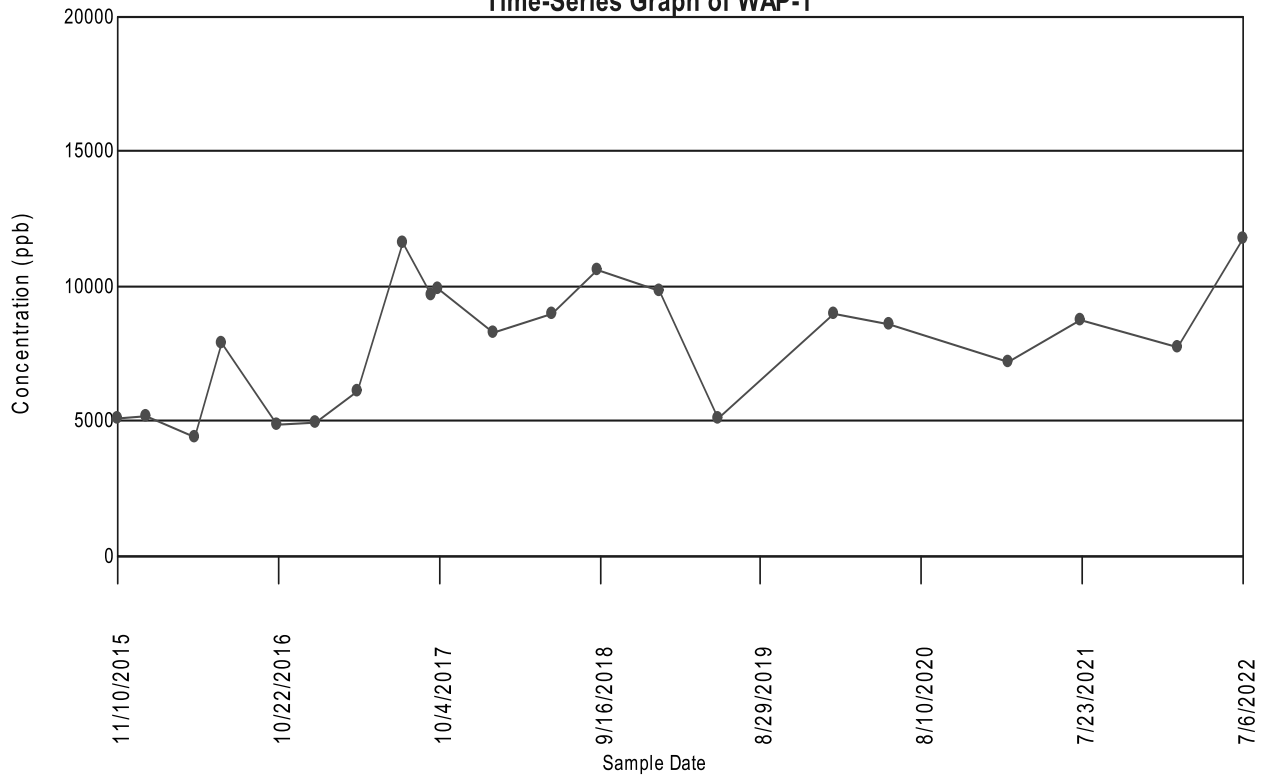
Calcium  
Time-Series Graph of WAP-20



Calcium  
Time-Series Graph of WAP-21

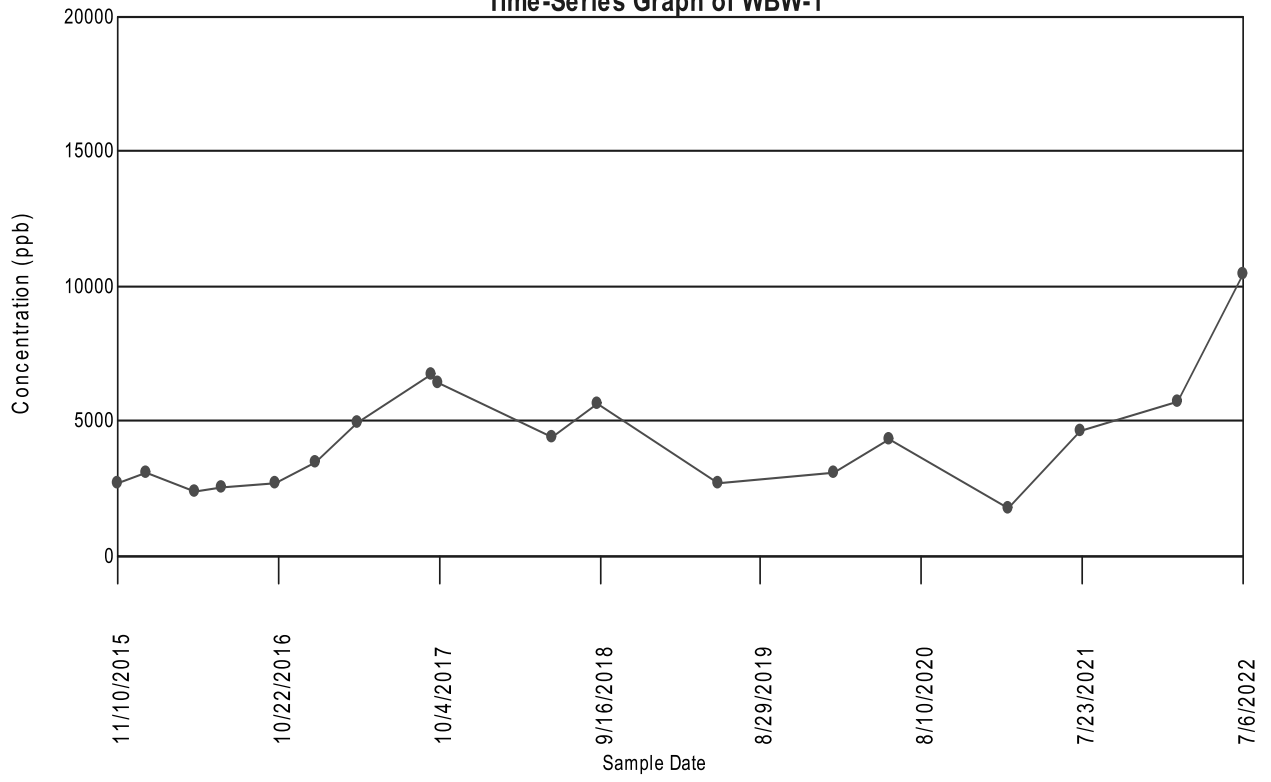


Chloride  
Time-Series Graph of WAP-1

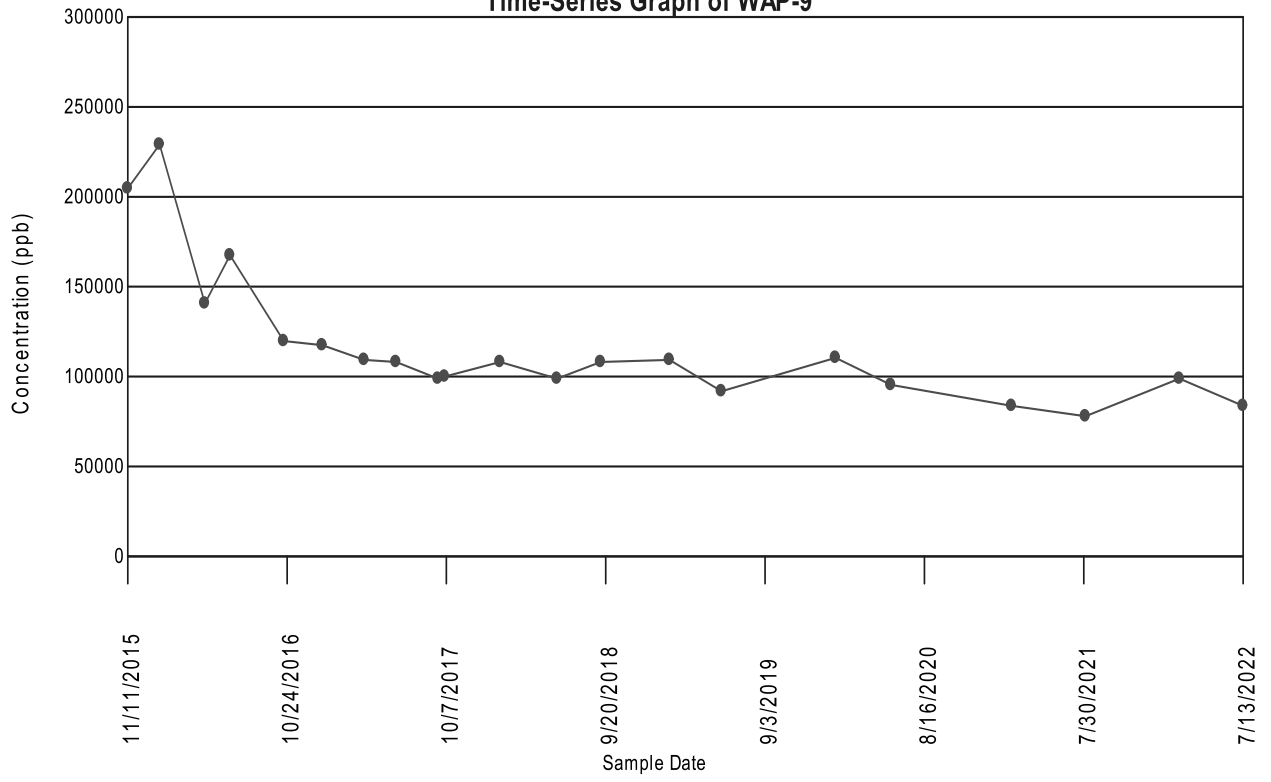




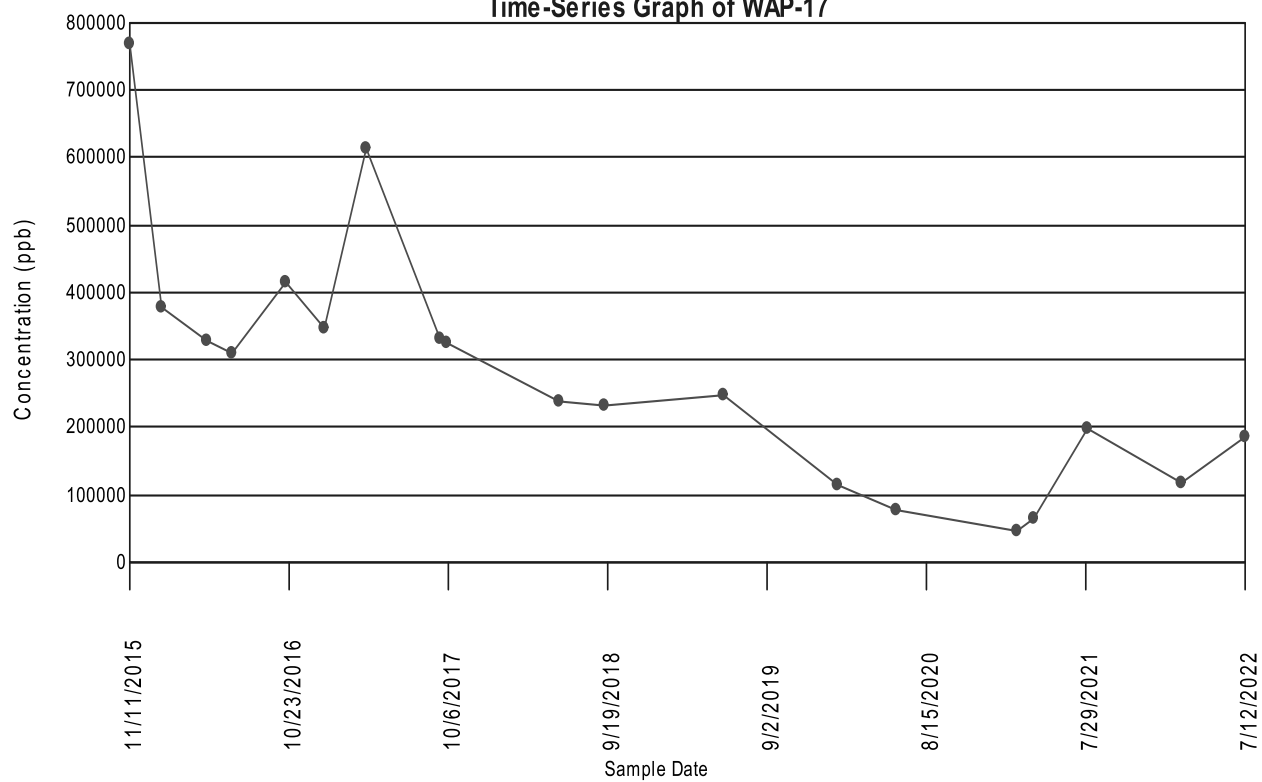
Chloride  
Time-Series Graph of WBW-1



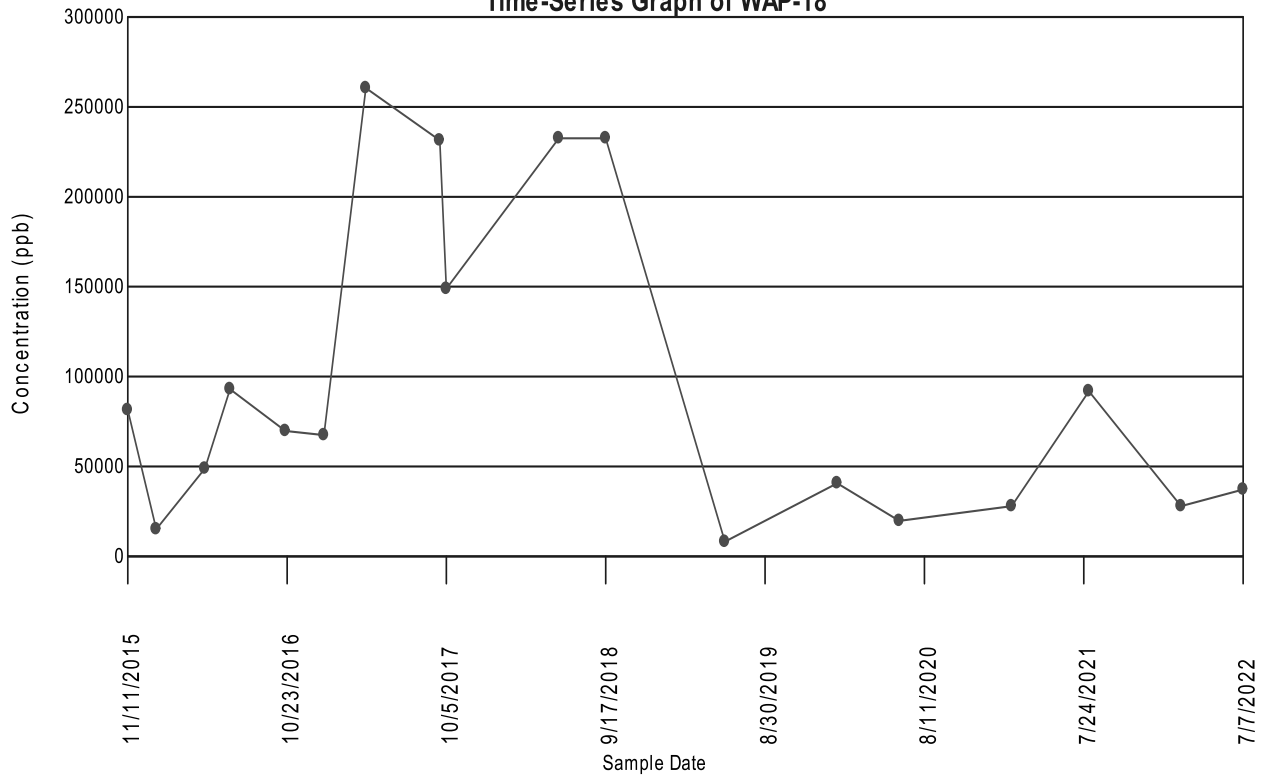
Chloride  
Time-Series Graph of WAP-9



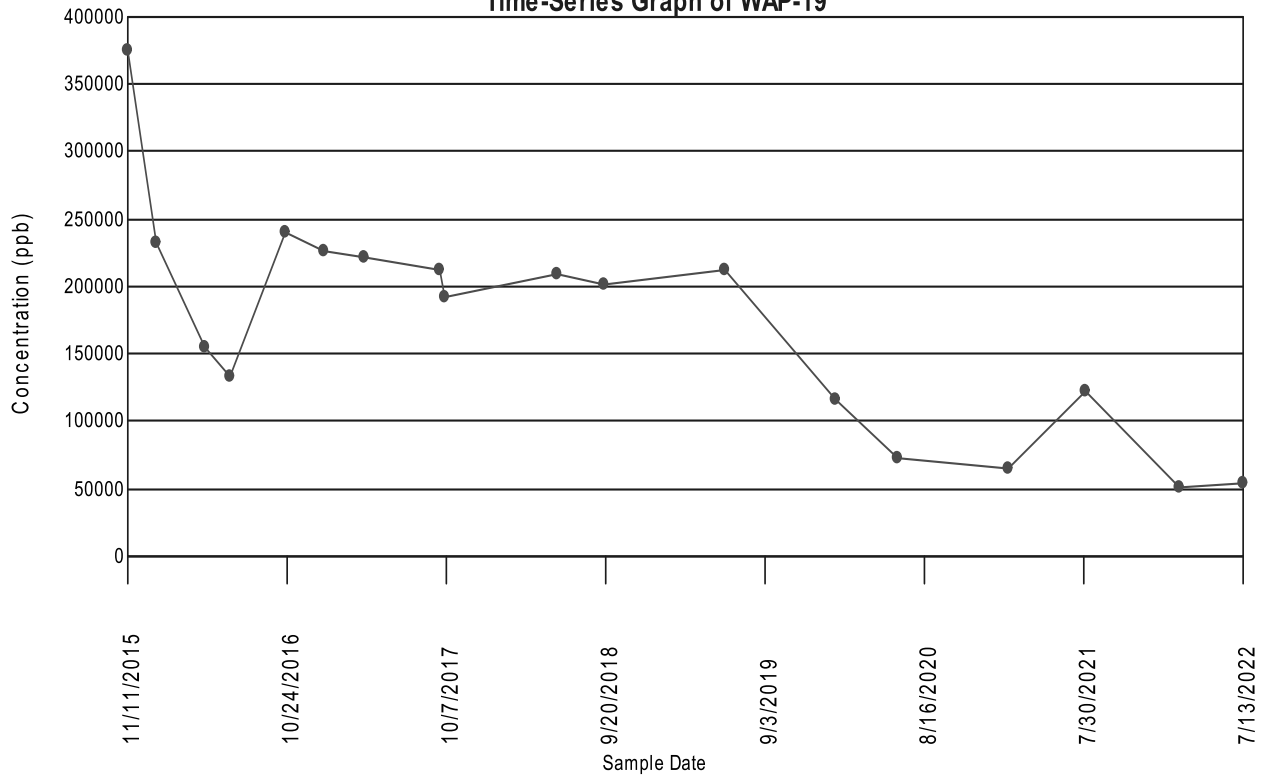
Chloride  
Time-Series Graph of WAP-17



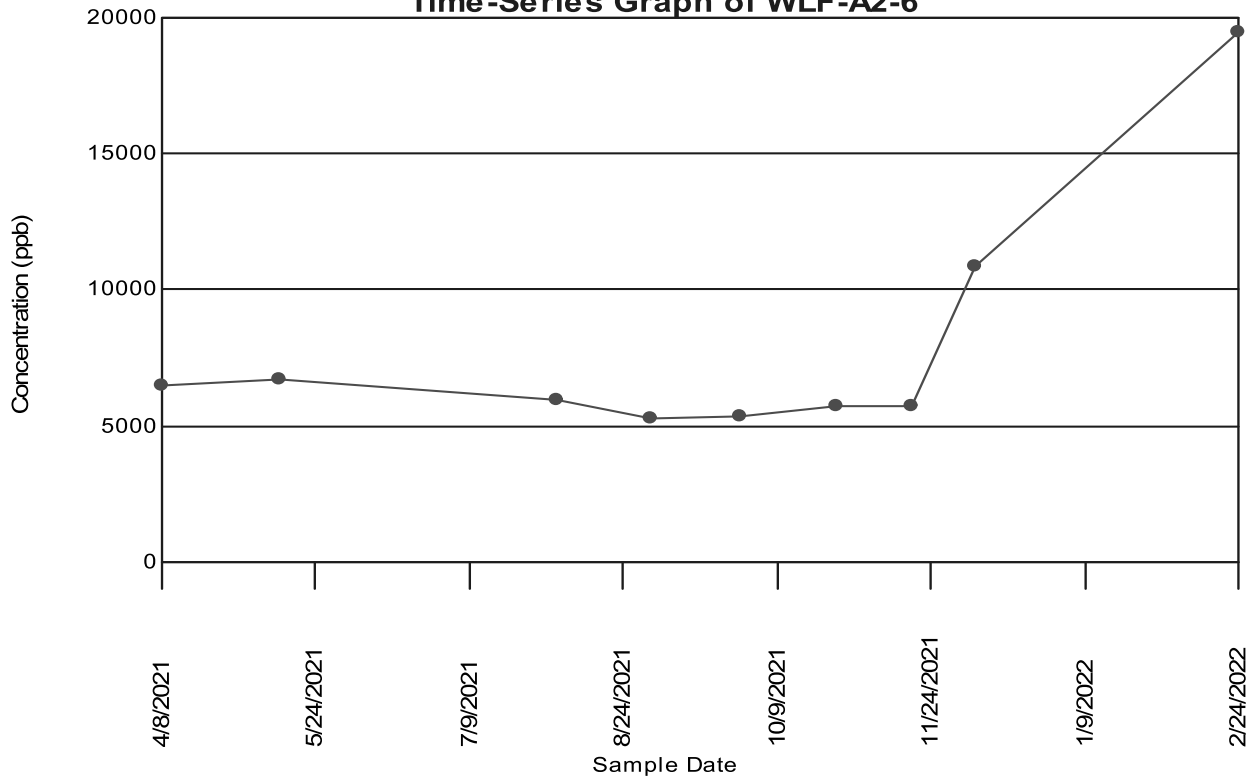
Chloride  
Time-Series Graph of WAP-18



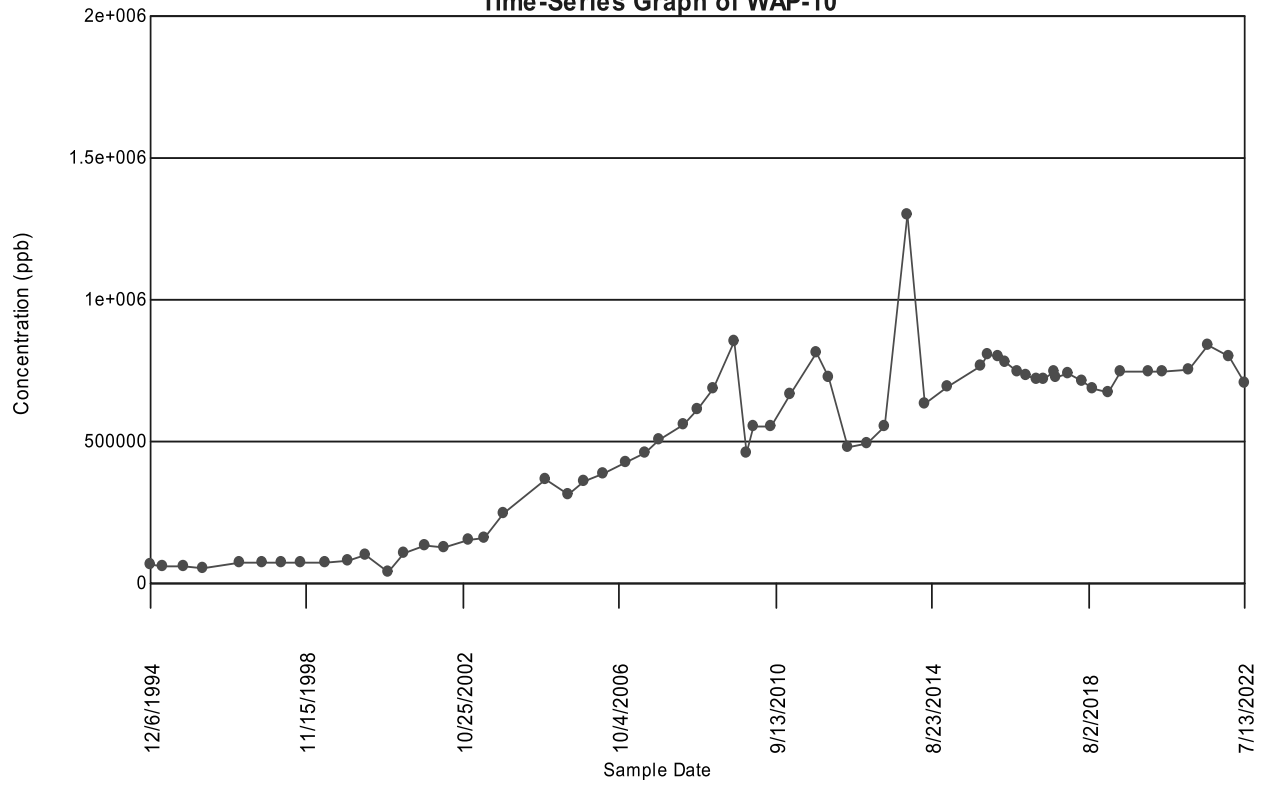
Chloride  
Time-Series Graph of WAP-19



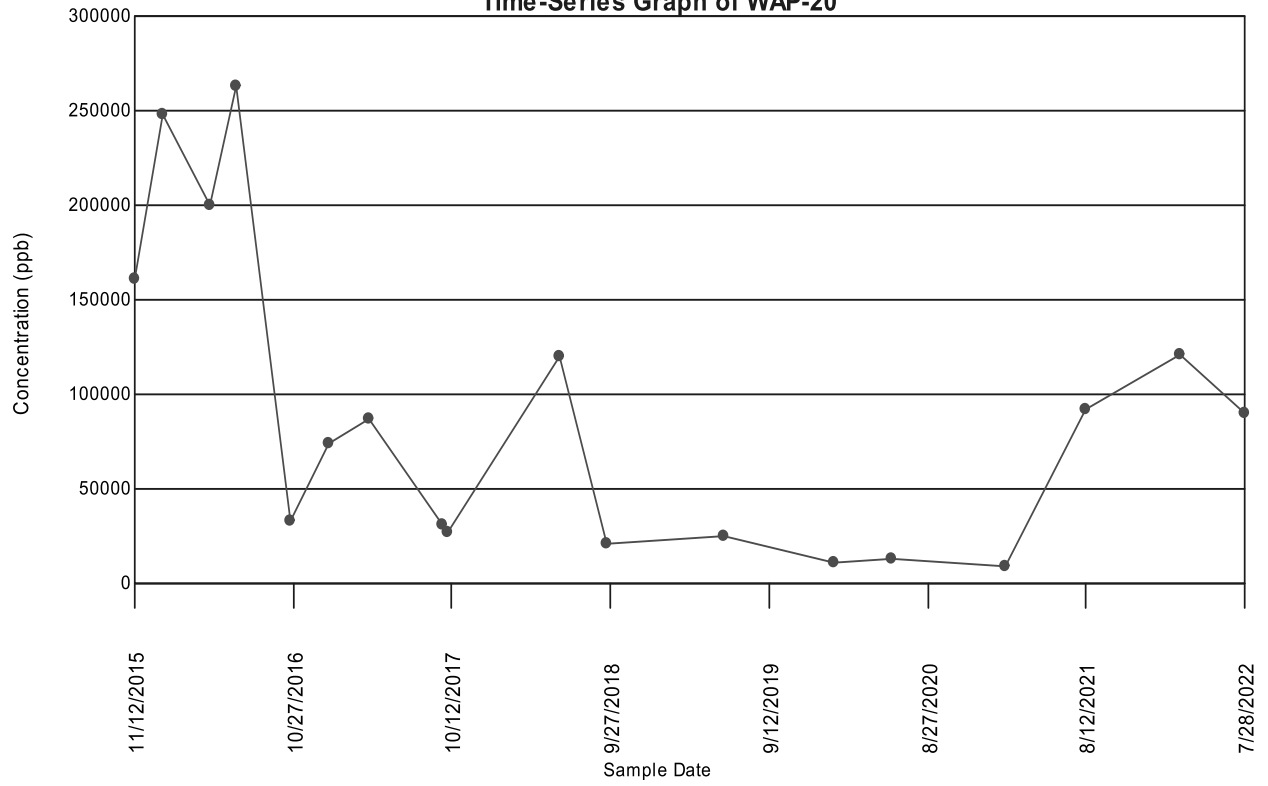
# Chloride Time-Series Graph of WLF-A2-6



Chloride  
Time-Series Graph of WAP-10

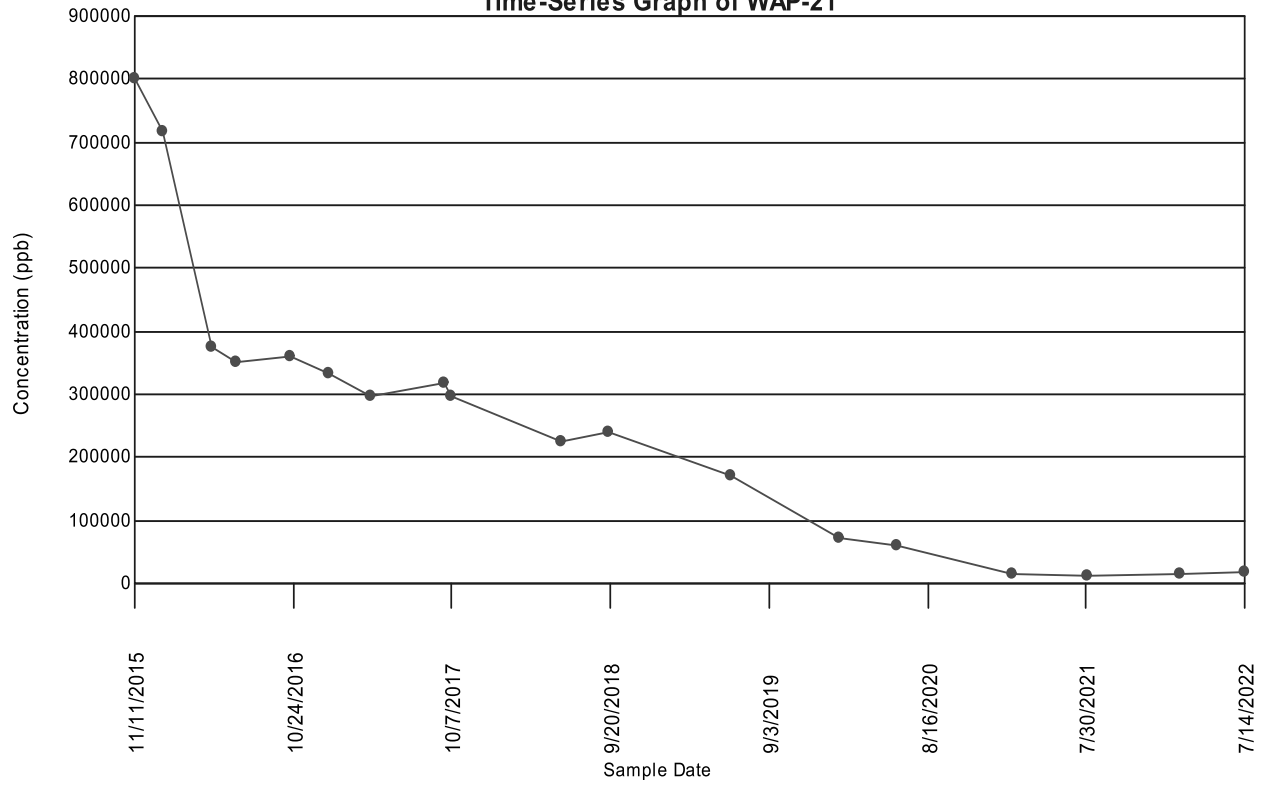


Chloride  
Time-Series Graph of WAP-20

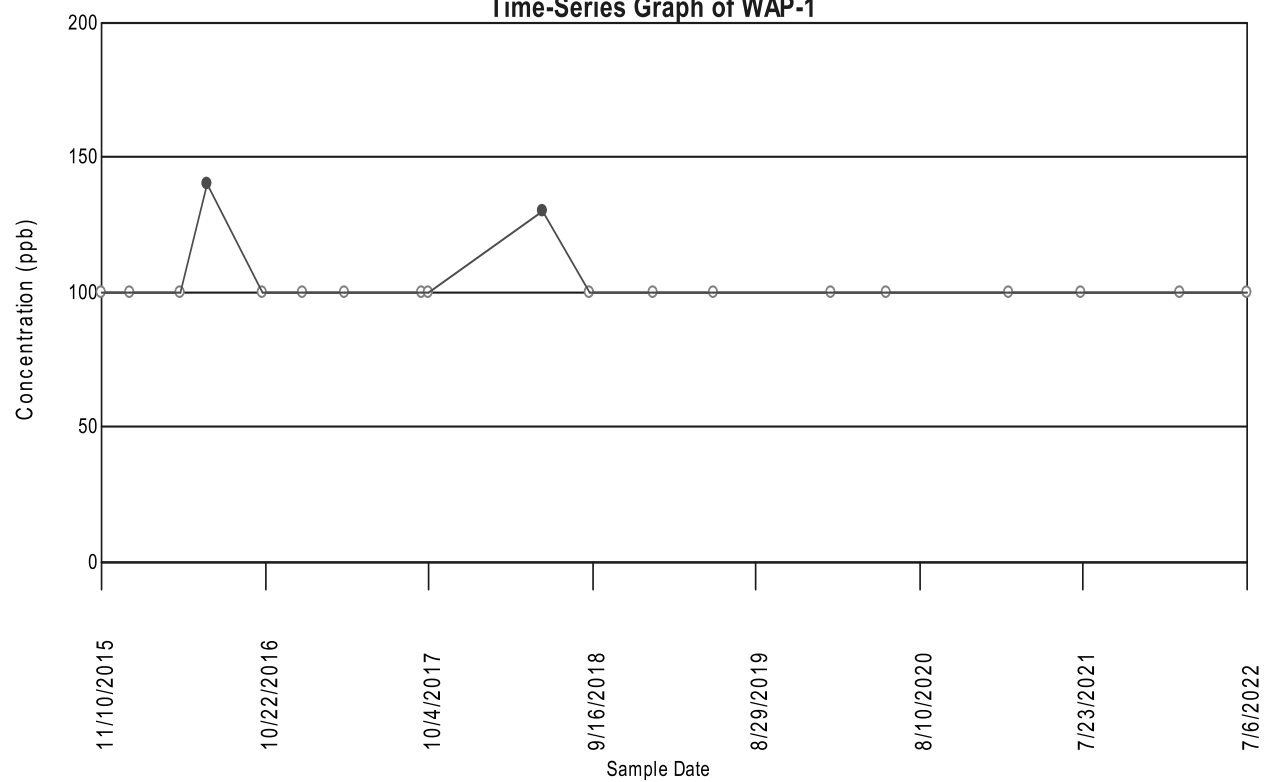




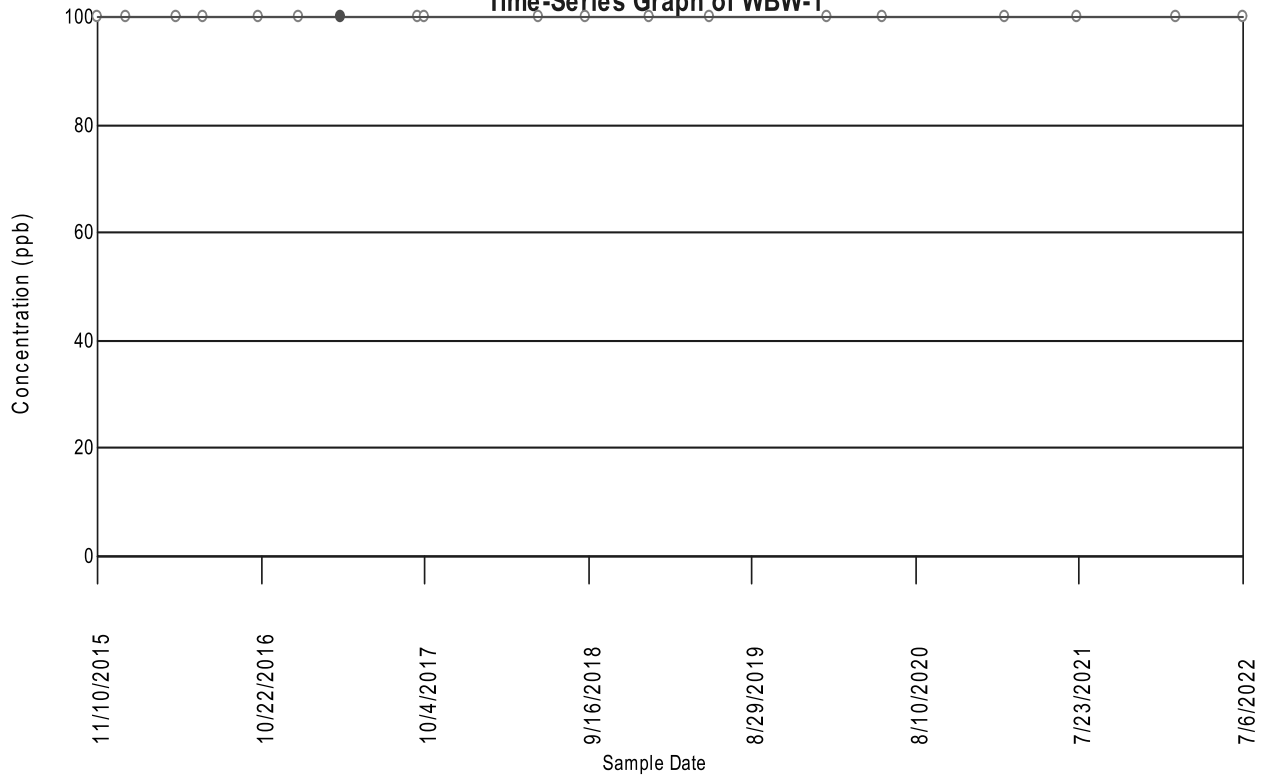
Chloride  
Time-Series Graph of WAP-21



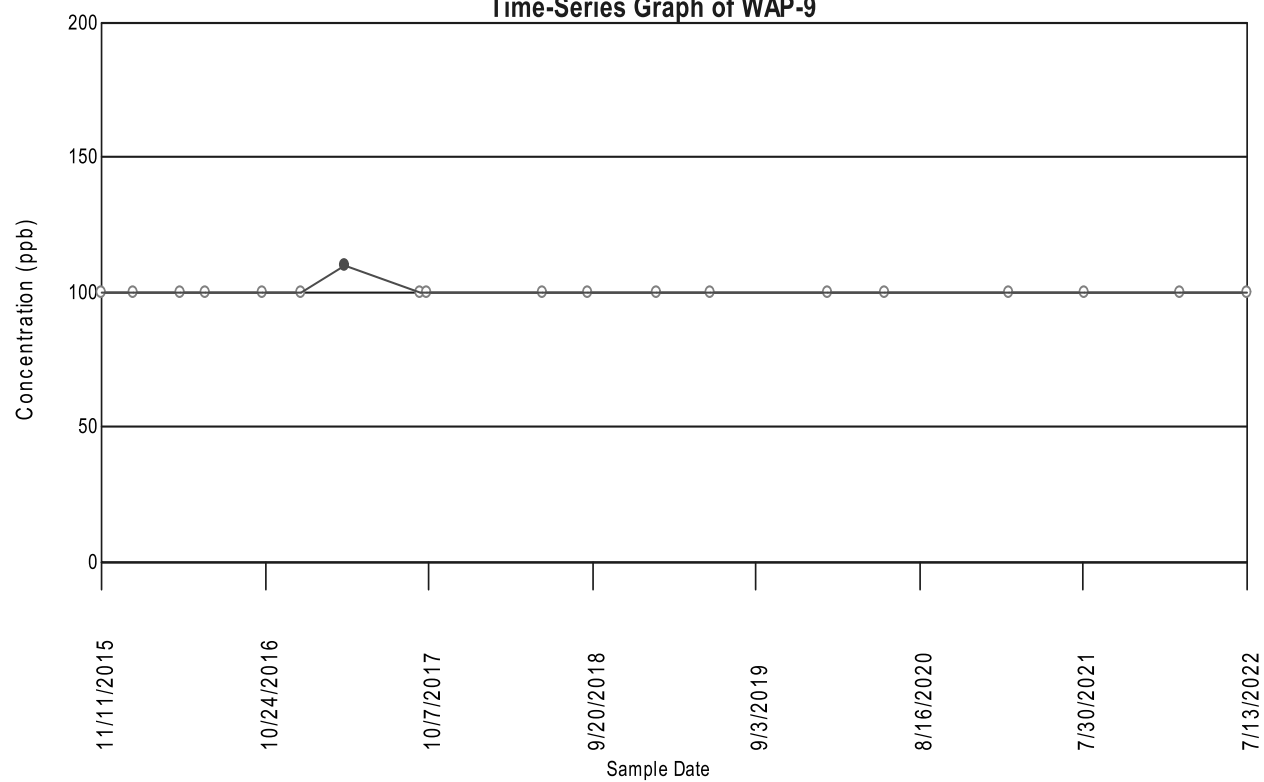
Fluoride  
Time-Series Graph of WAP-1



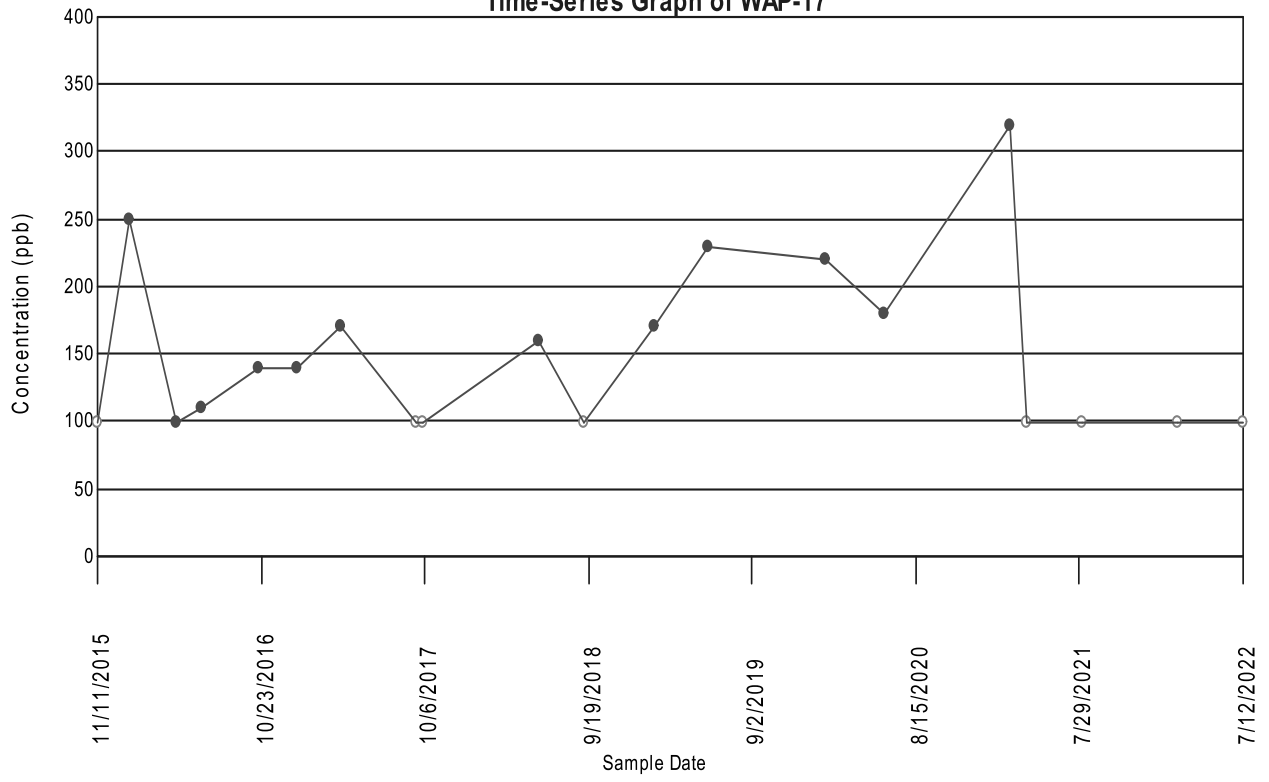
# Fluoride Time-Series Graph of WBW-1



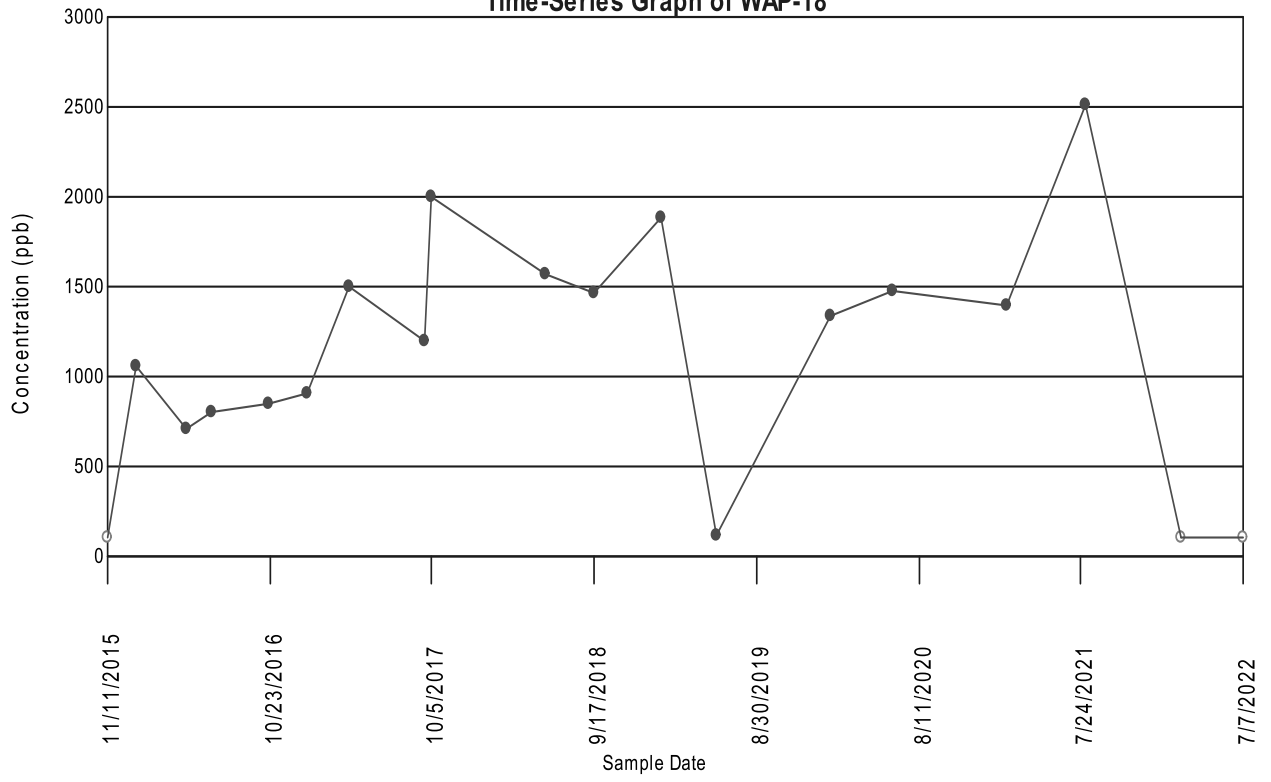
### Fluoride Time-Series Graph of WAP-9



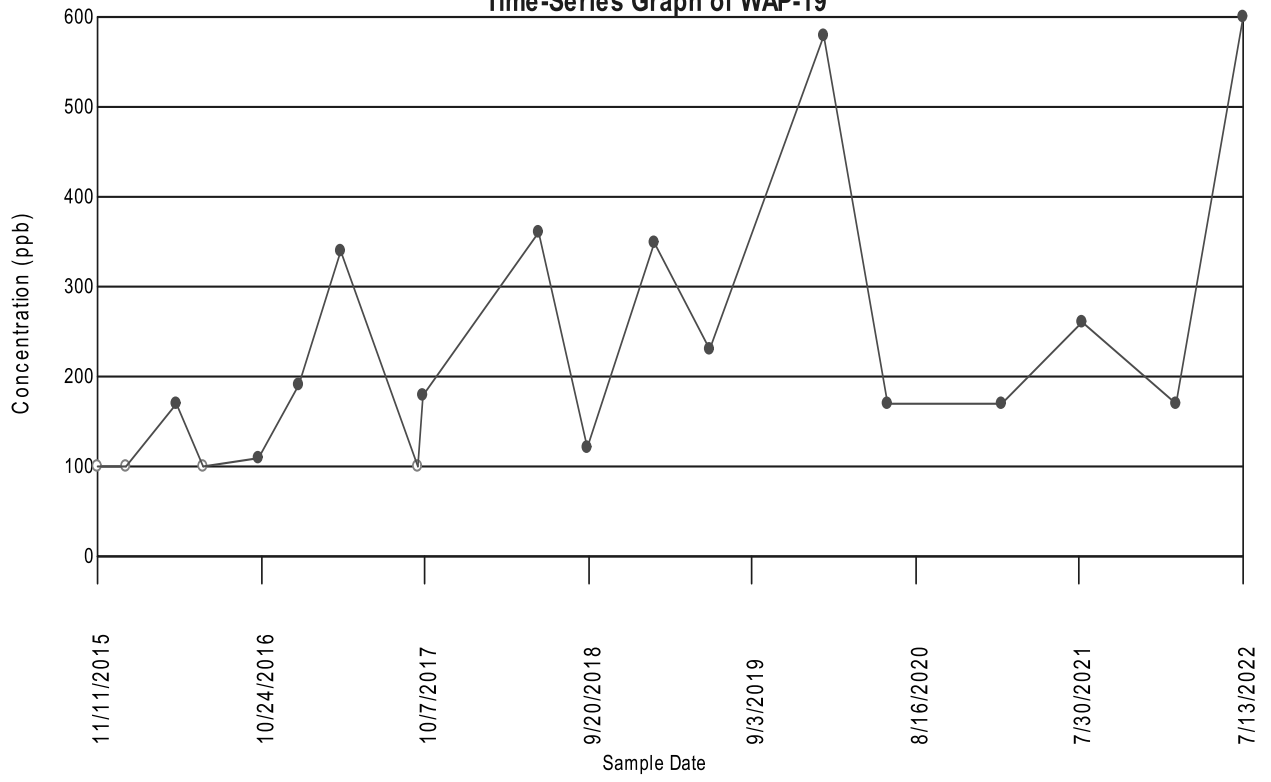
Fluoride  
Time-Series Graph of WAP-17



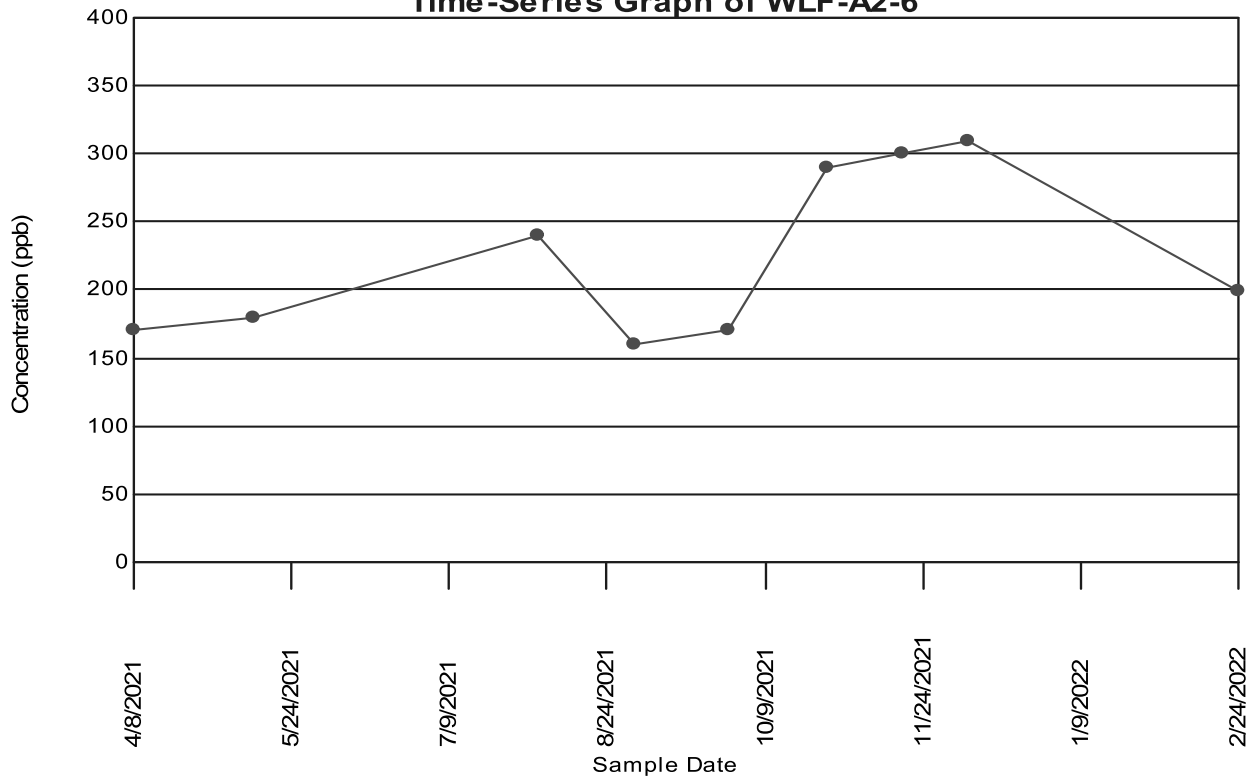
Fluoride  
Time-Series Graph of WAP-18



Fluoride  
Time-Series Graph of WAP-19

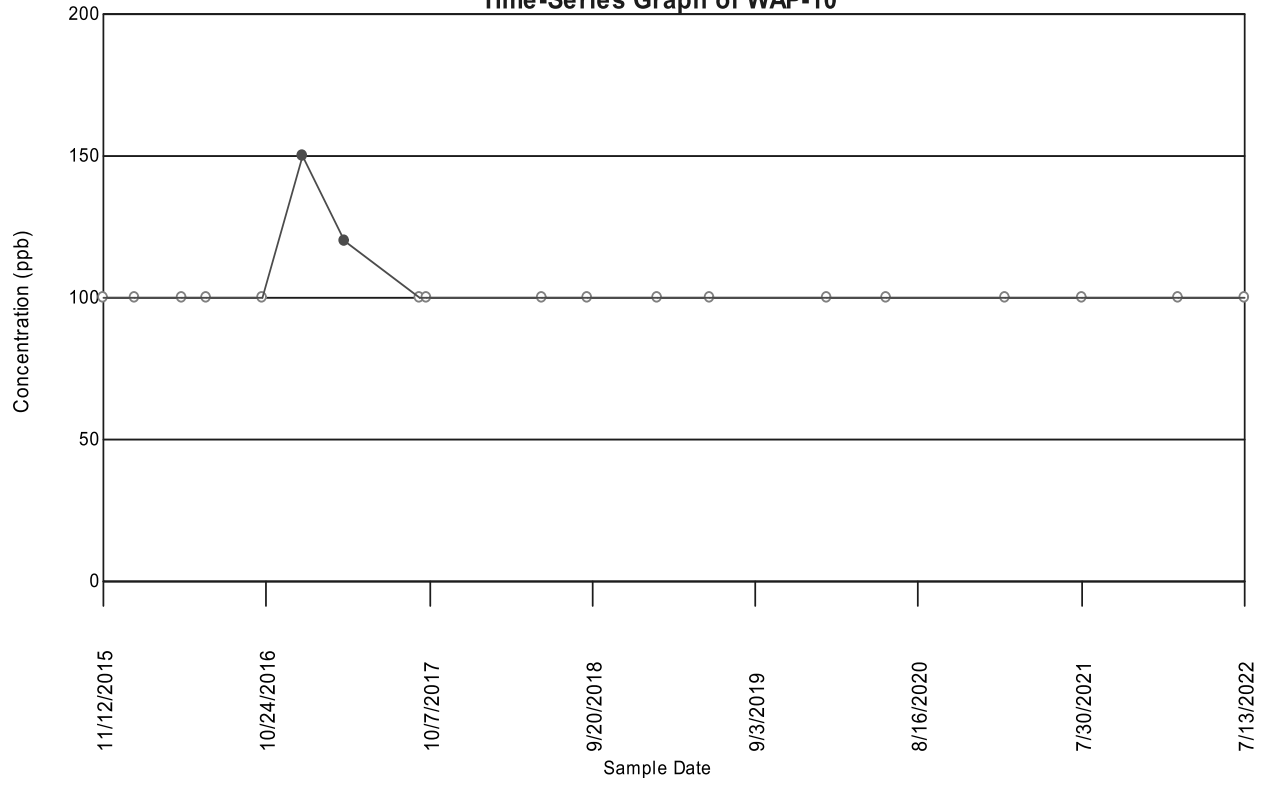


# Fluoride Time-Series Graph of WLF-A2-6

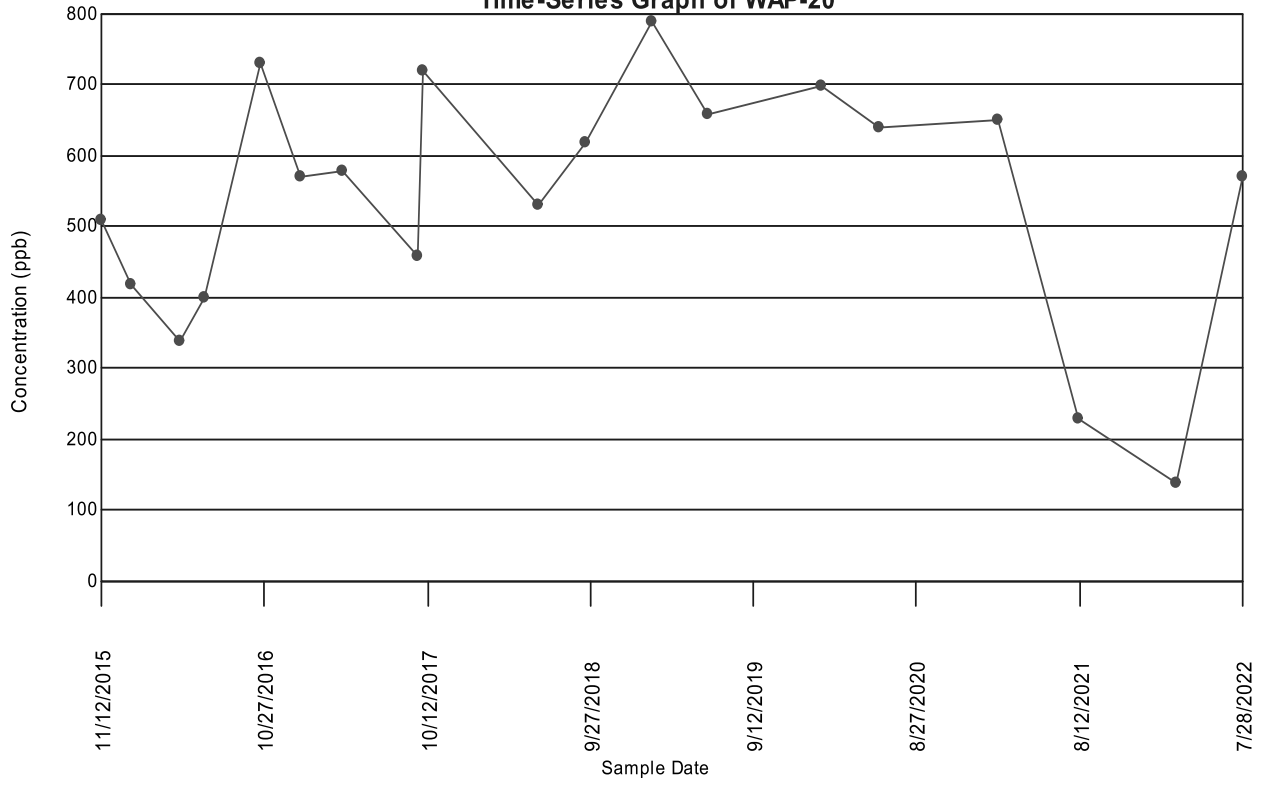




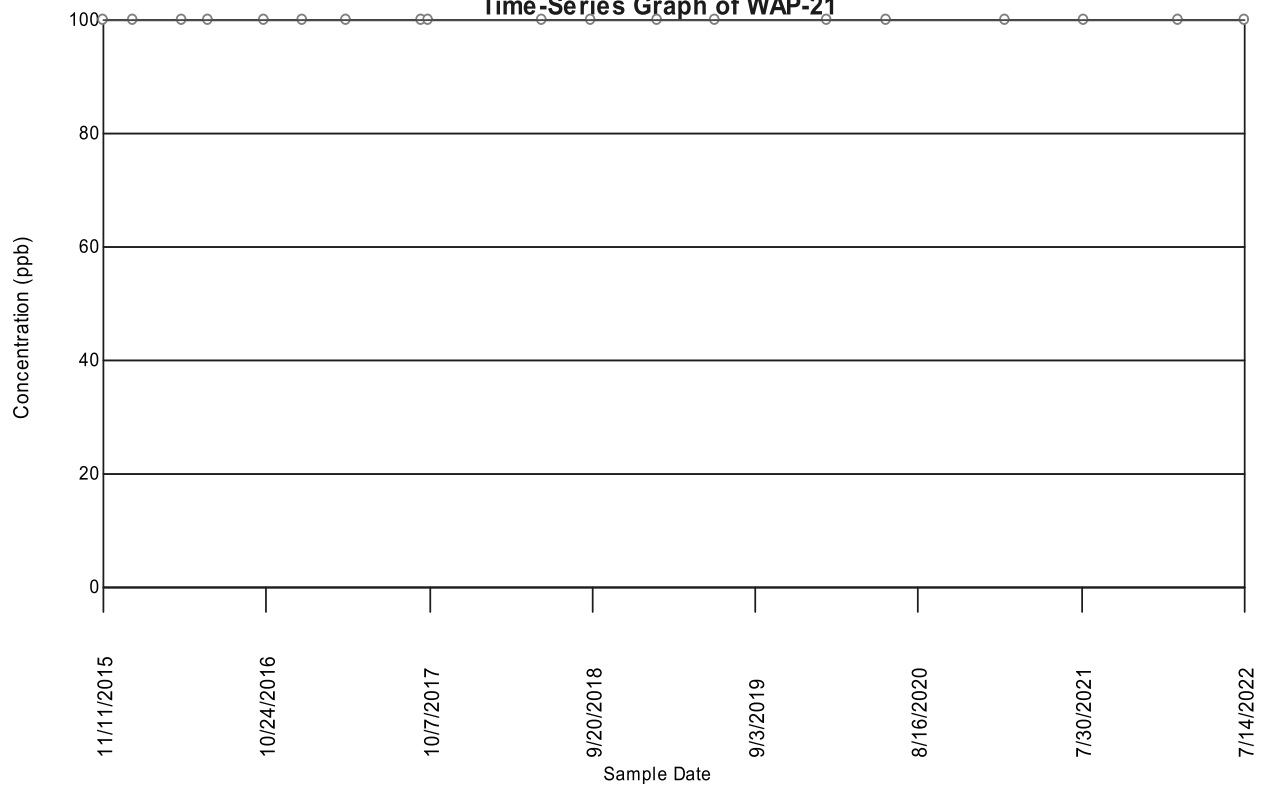
**Fluoride**  
**Time-Series Graph of WAP-10**



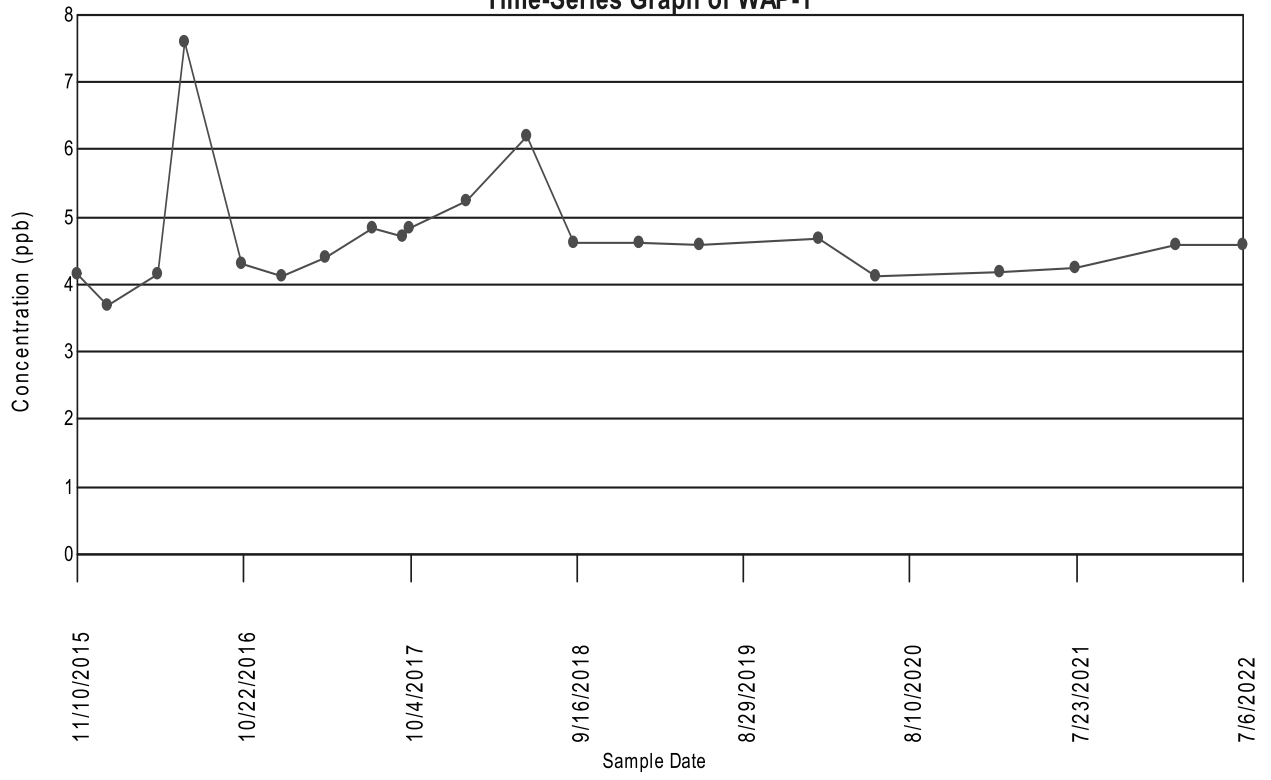
Fluoride  
Time-Series Graph of WAP-20



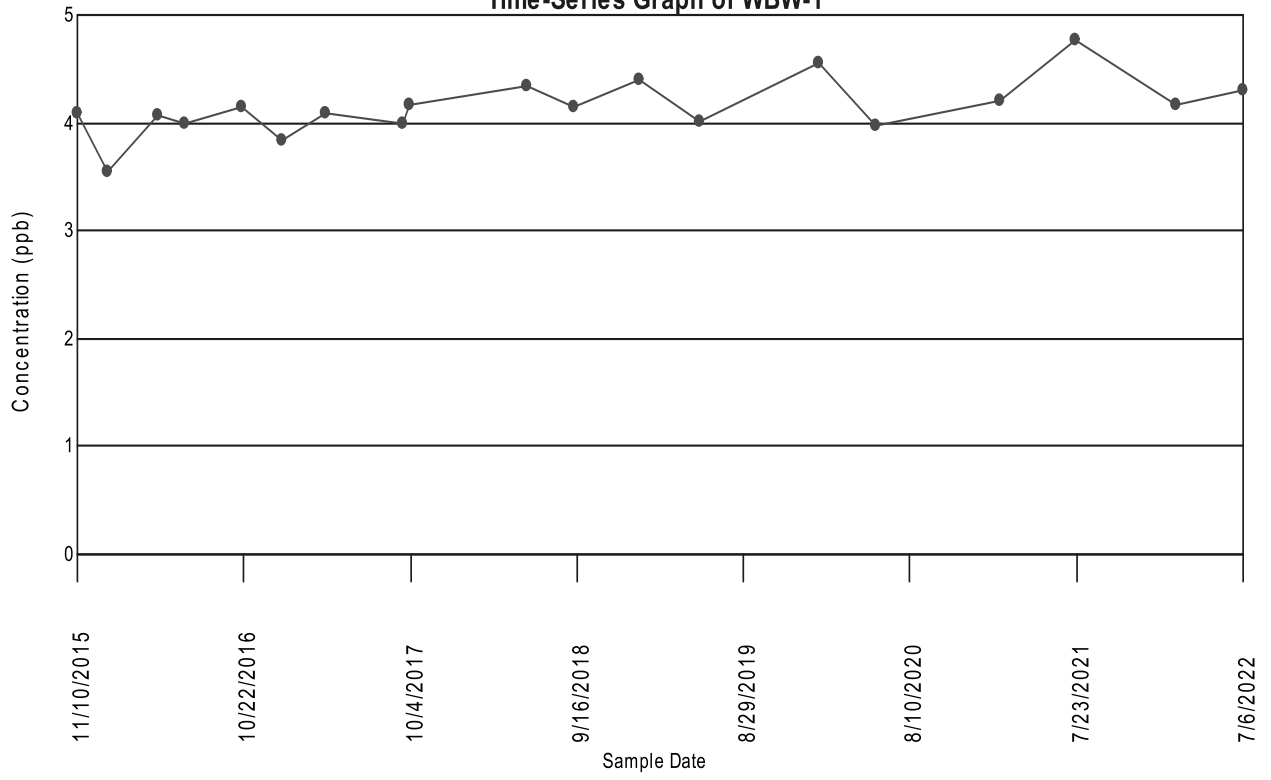
# Fluoride Time-Series Graph of WAP-21



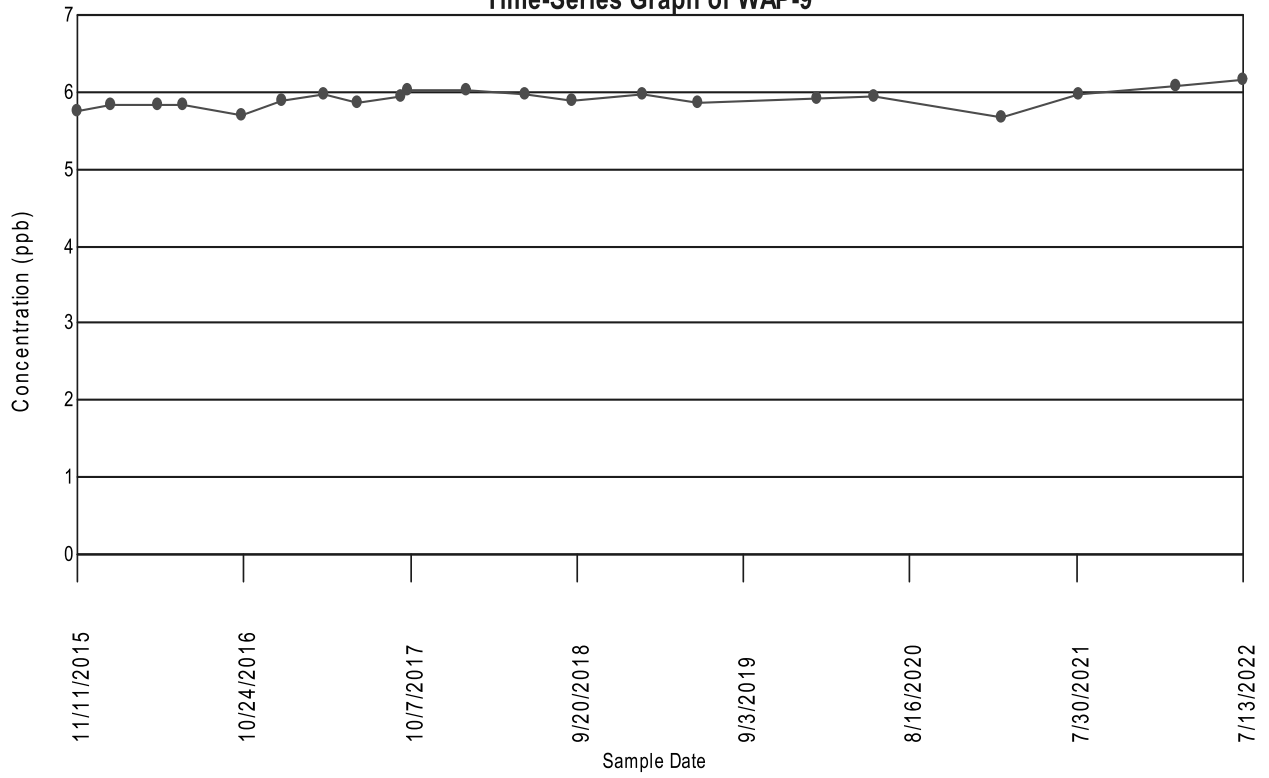
pH, Field  
Time-Series Graph of WAP-1



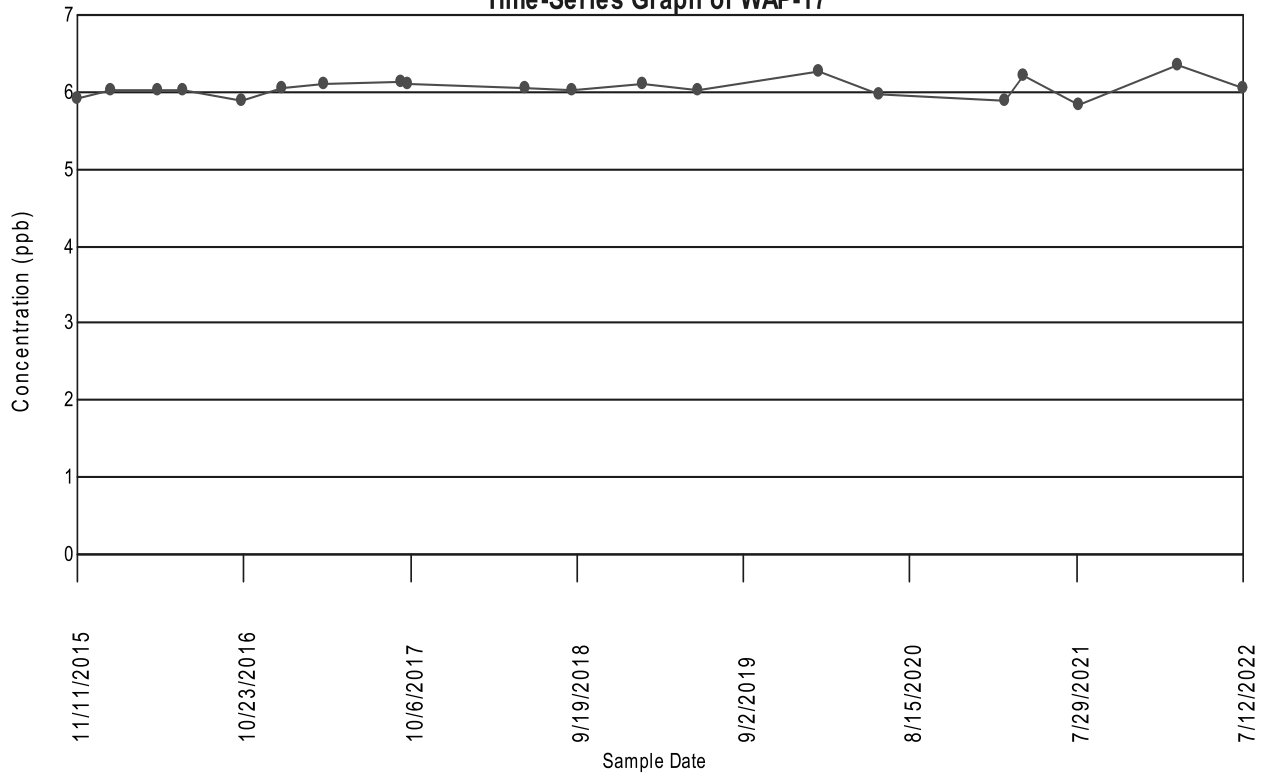
pH, Field  
Time-Series Graph of WBW-1



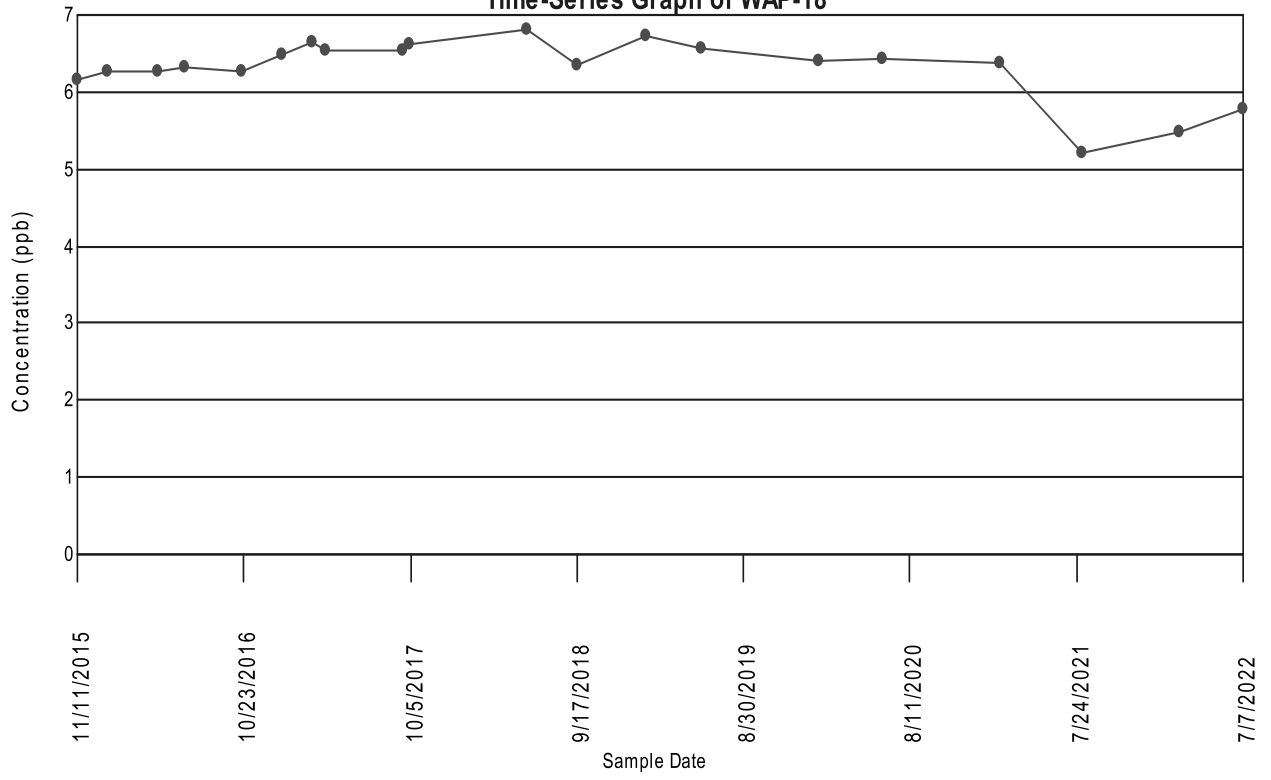
pH, Field  
Time-Series Graph of WAP-9



pH, Field  
Time-Series Graph of WAP-17

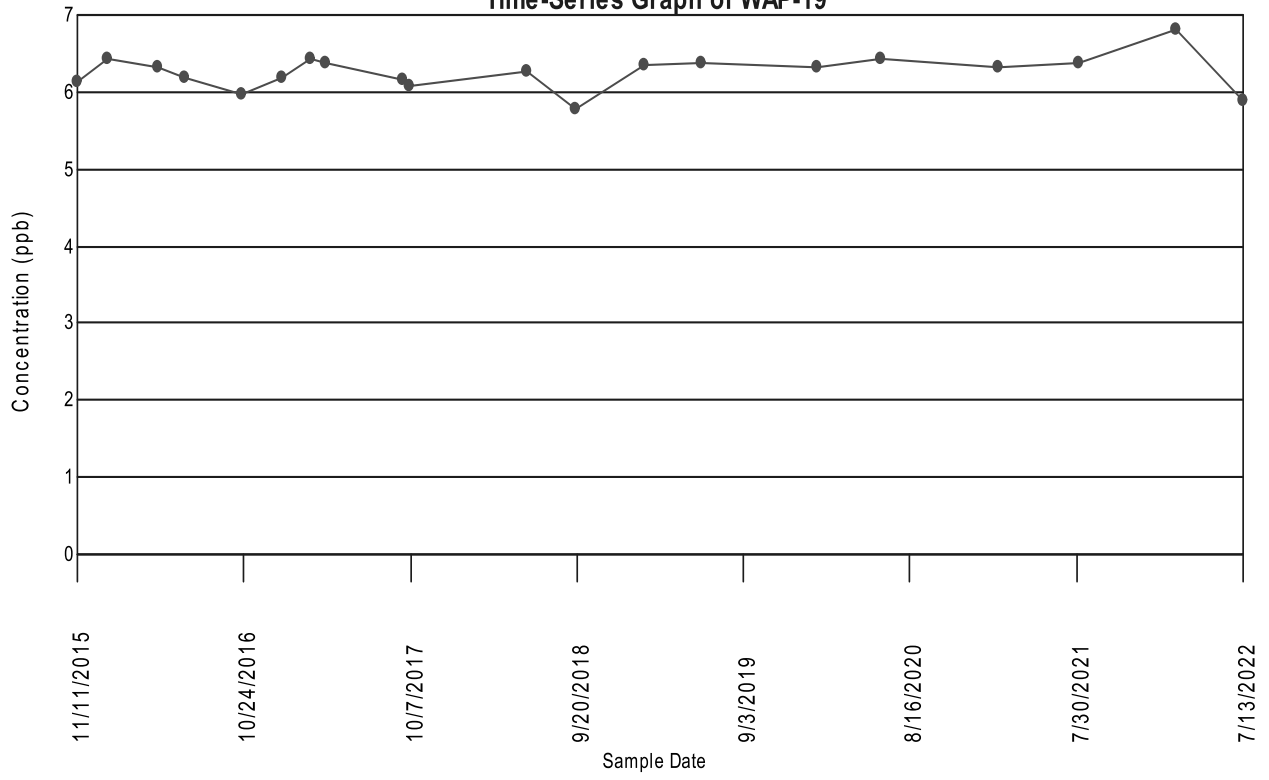


pH, Field  
Time-Series Graph of WAP-18

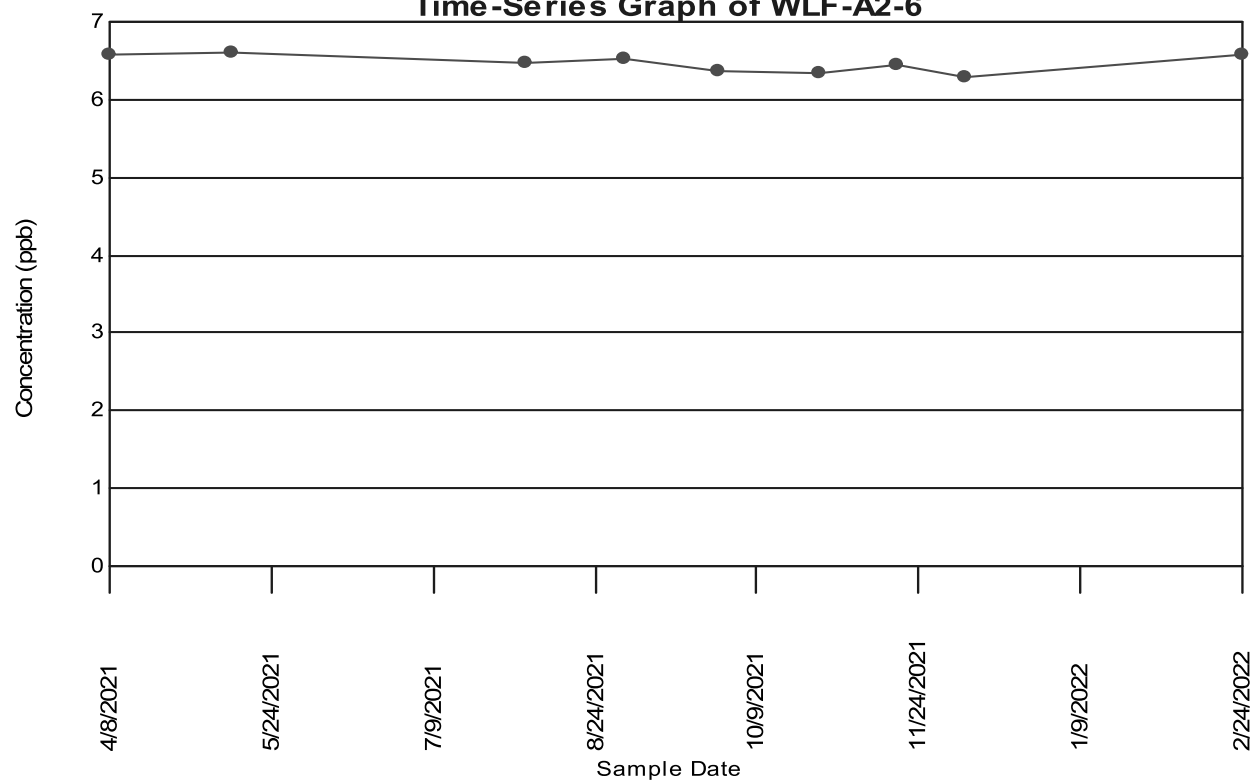




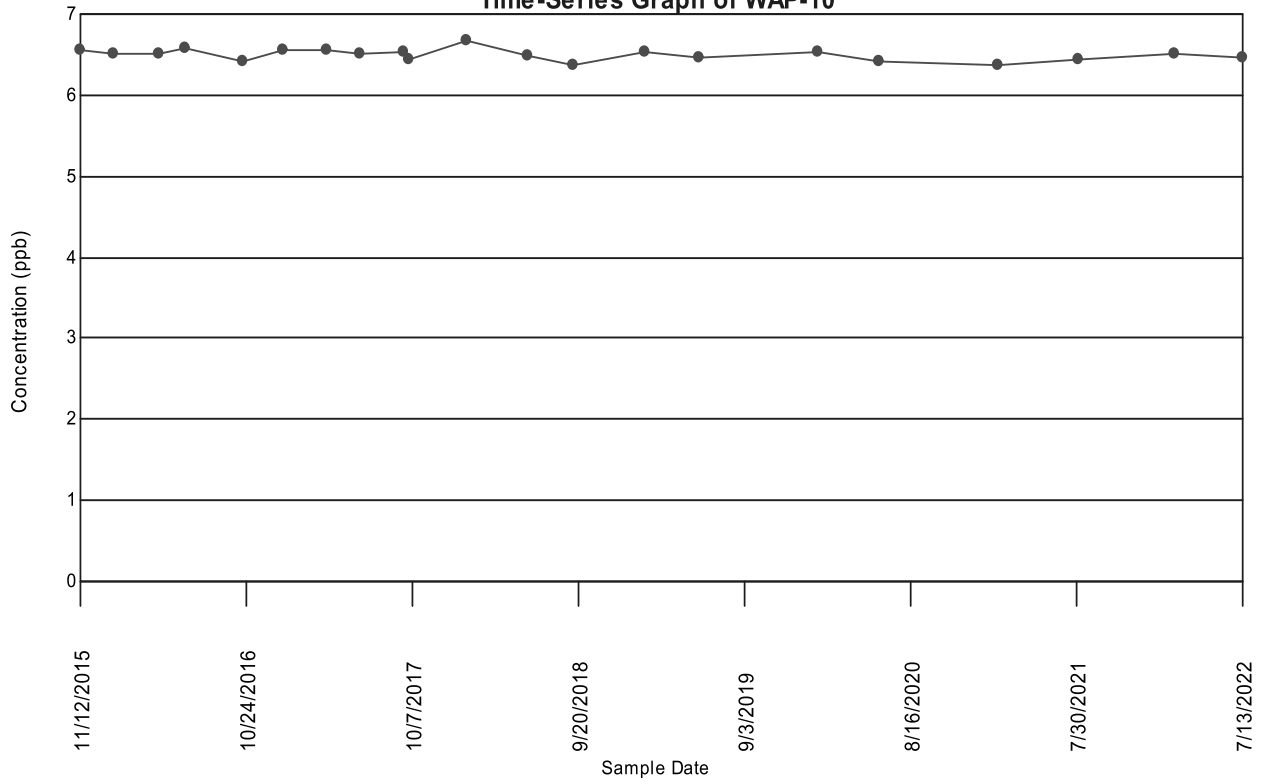
pH, Field  
Time-Series Graph of WAP-19



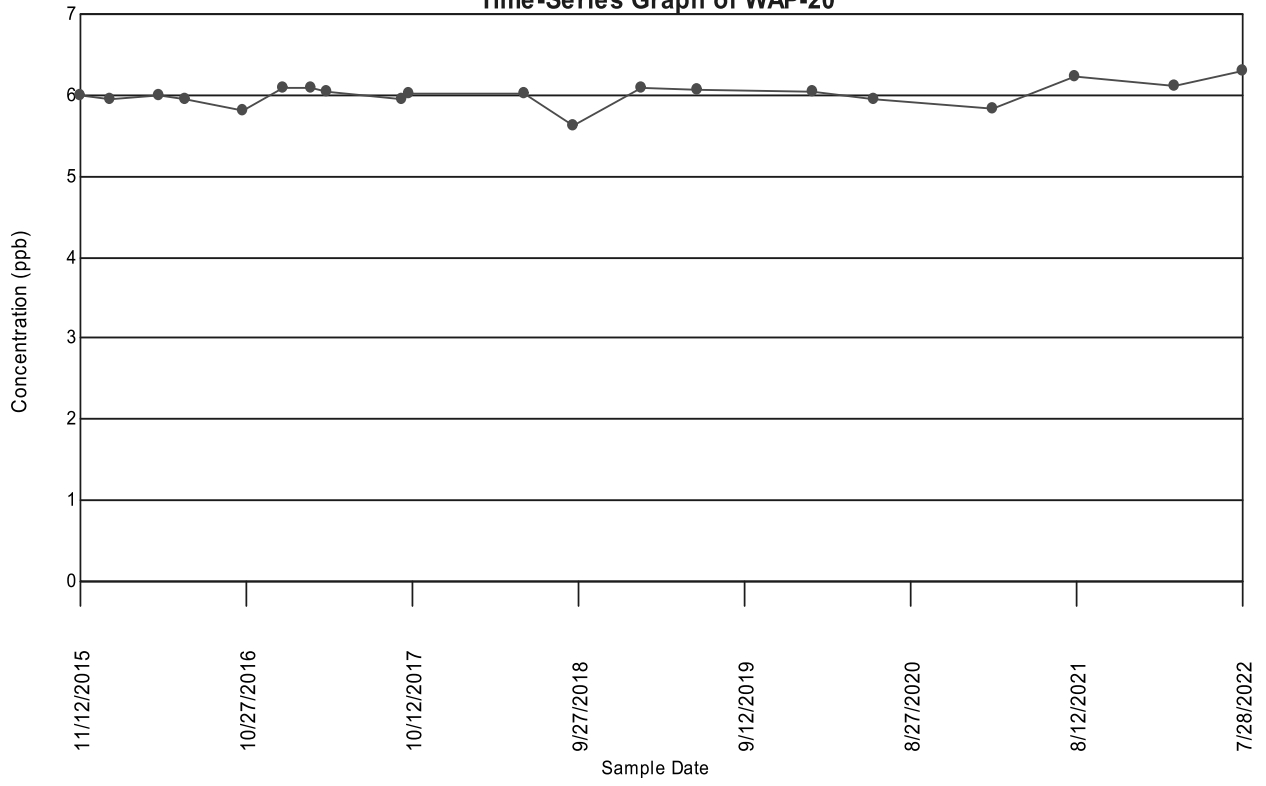
### pH, Field Time-Series Graph of WLF-A2-6



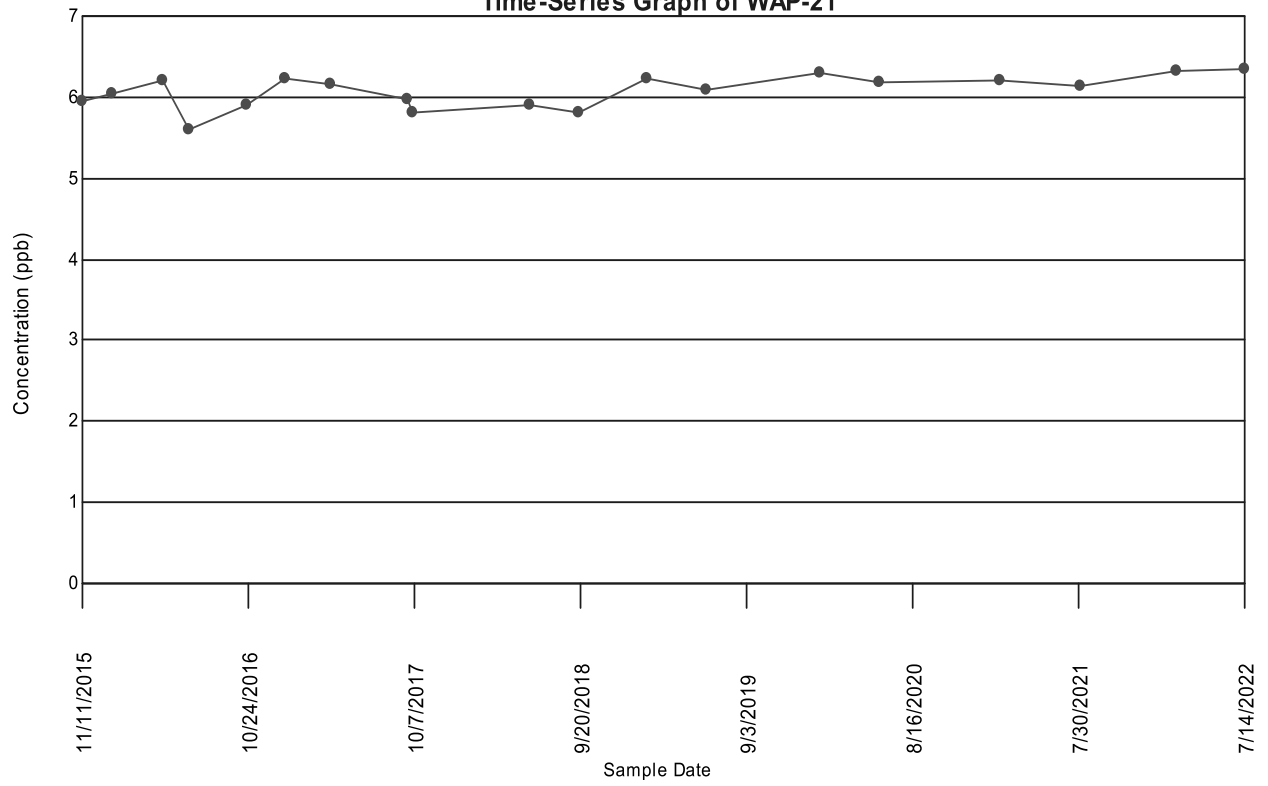
pH, Field  
Time-Series Graph of WAP-10



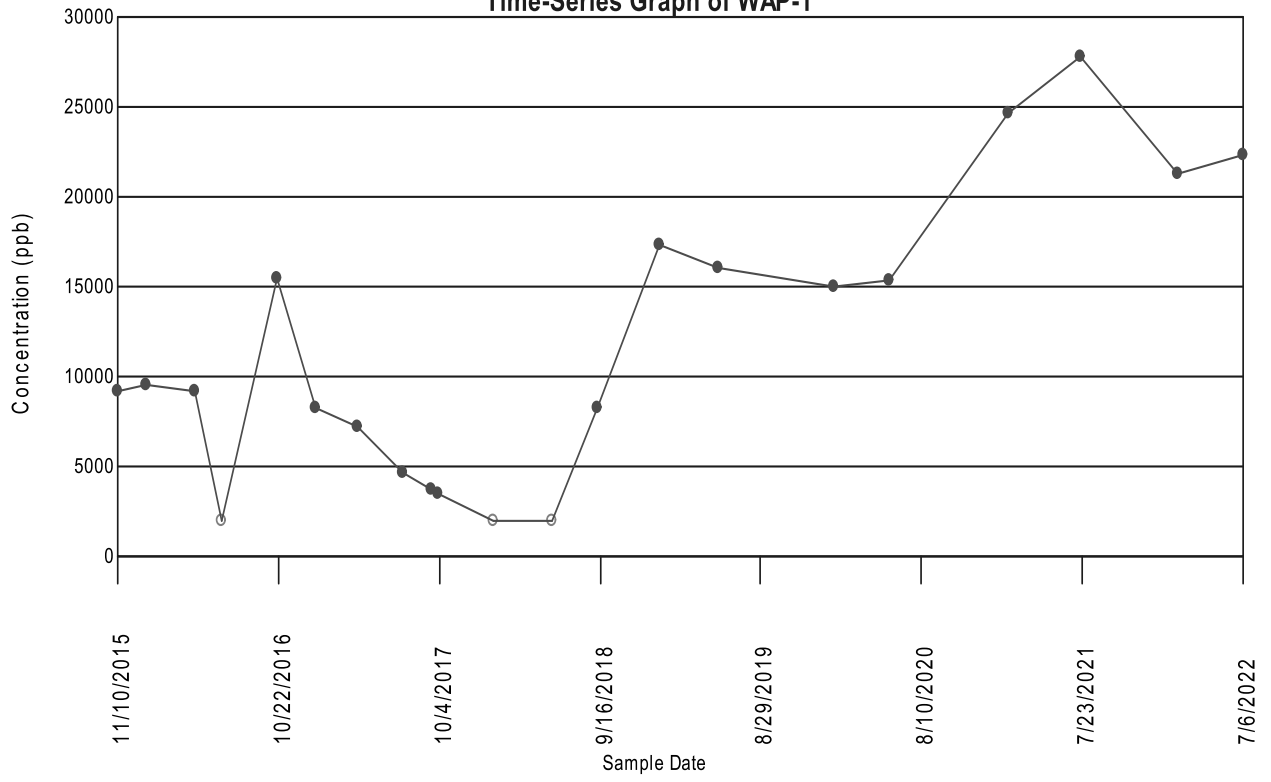
pH, Field  
Time-Series Graph of WAP-20



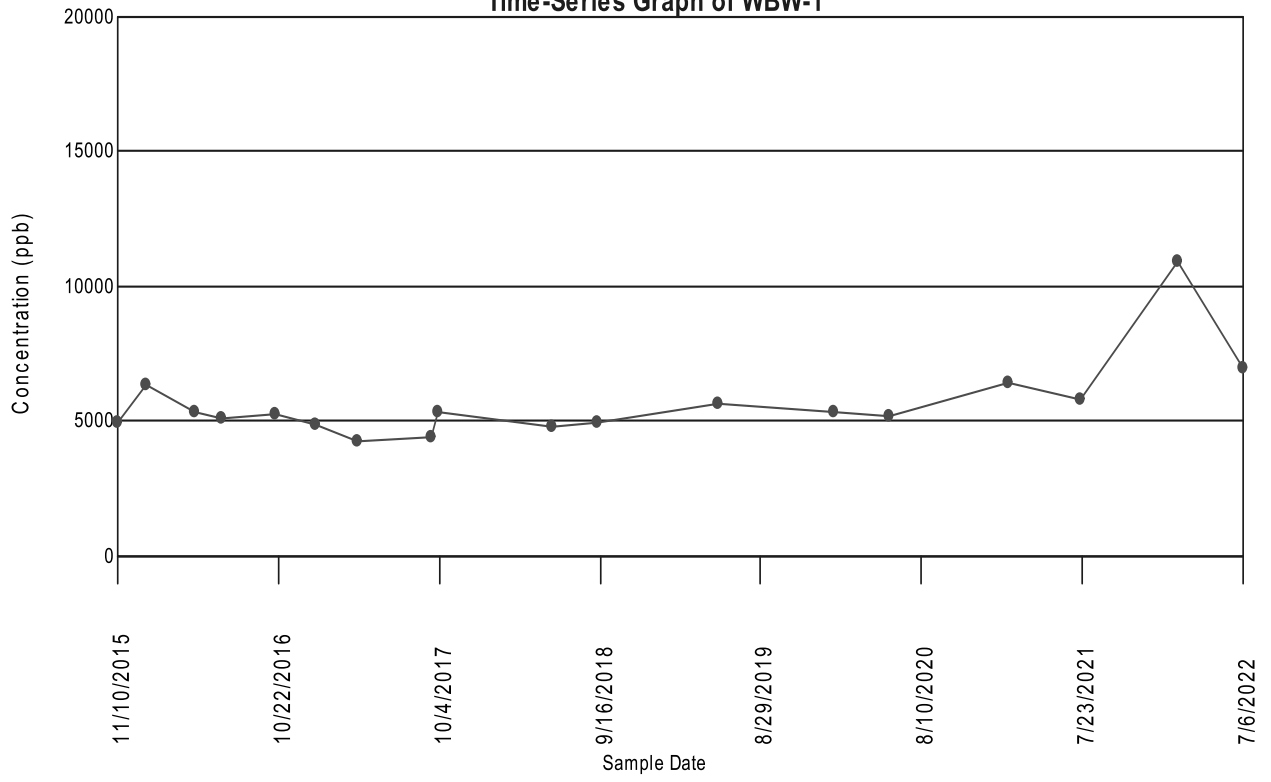
pH, Field  
Time-Series Graph of WAP-21



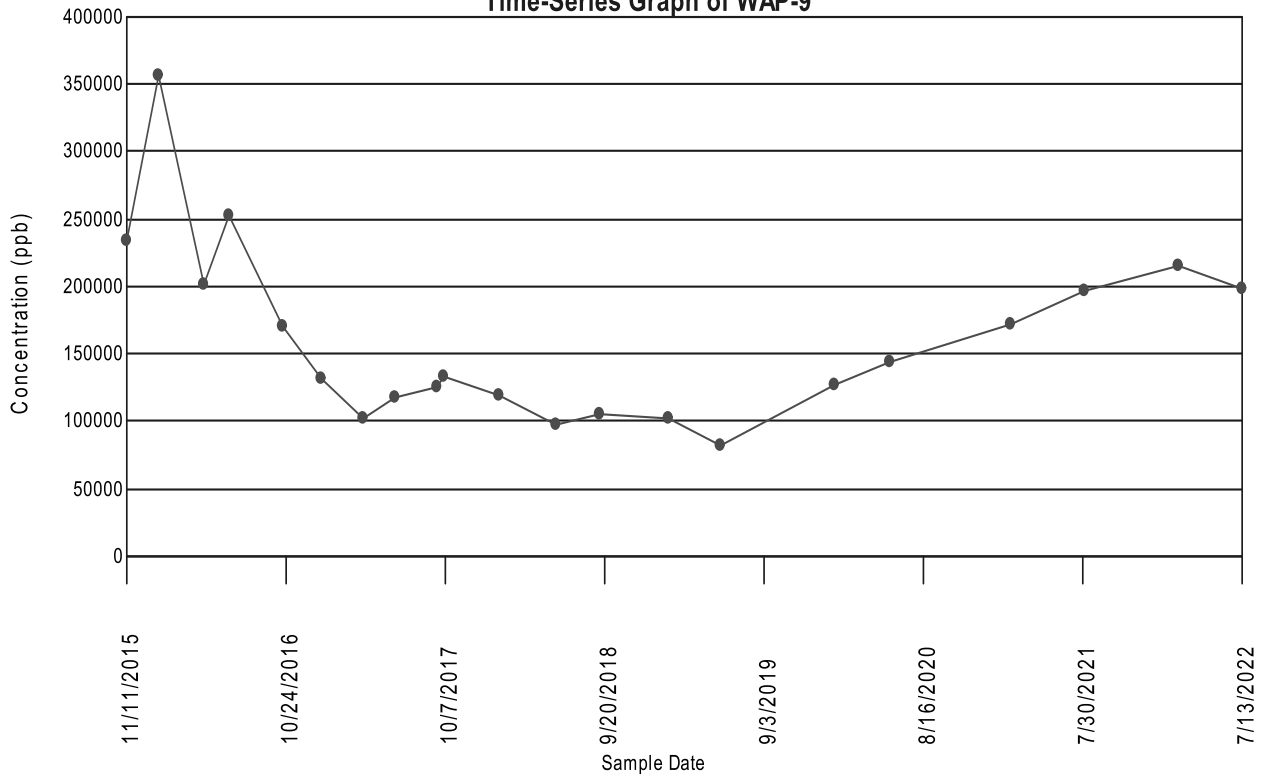
Sulfate  
Time-Series Graph of WAP-1



Sulfate  
Time-Series Graph of WBW-1

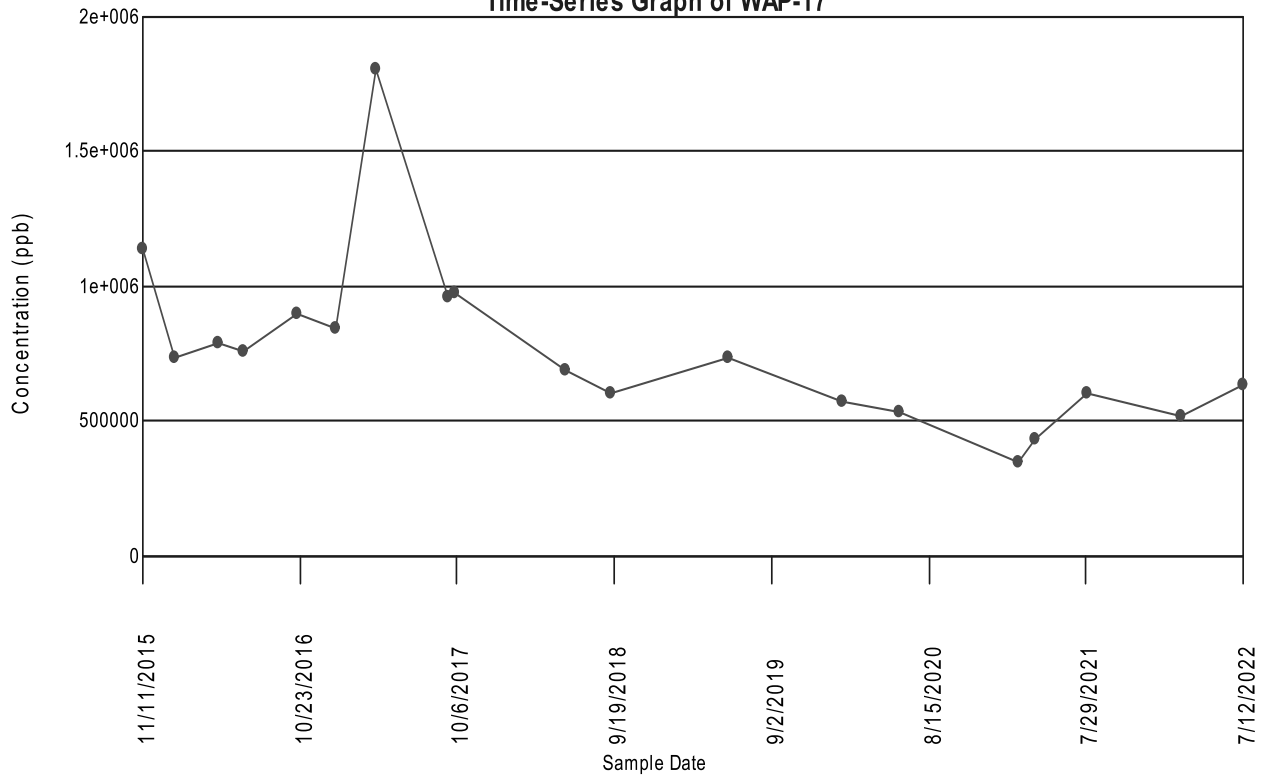


Sulfate  
Time-Series Graph of WAP-9

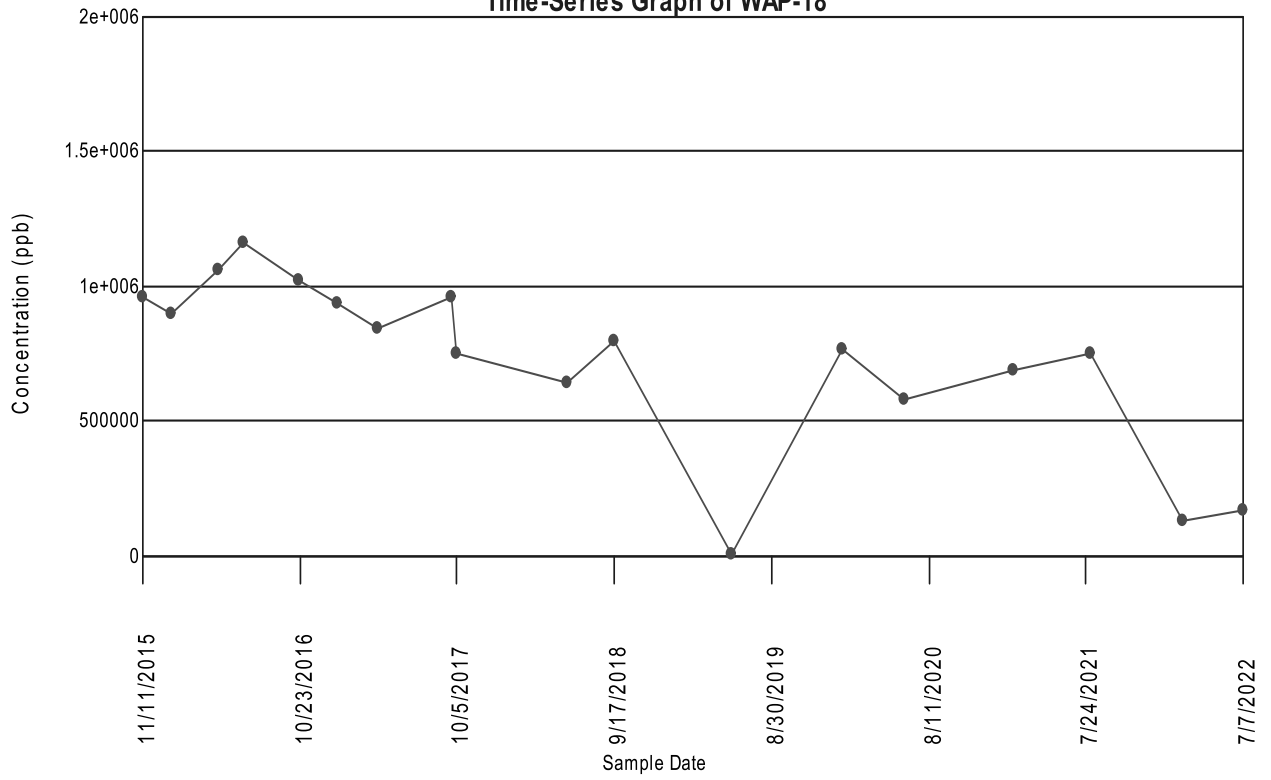




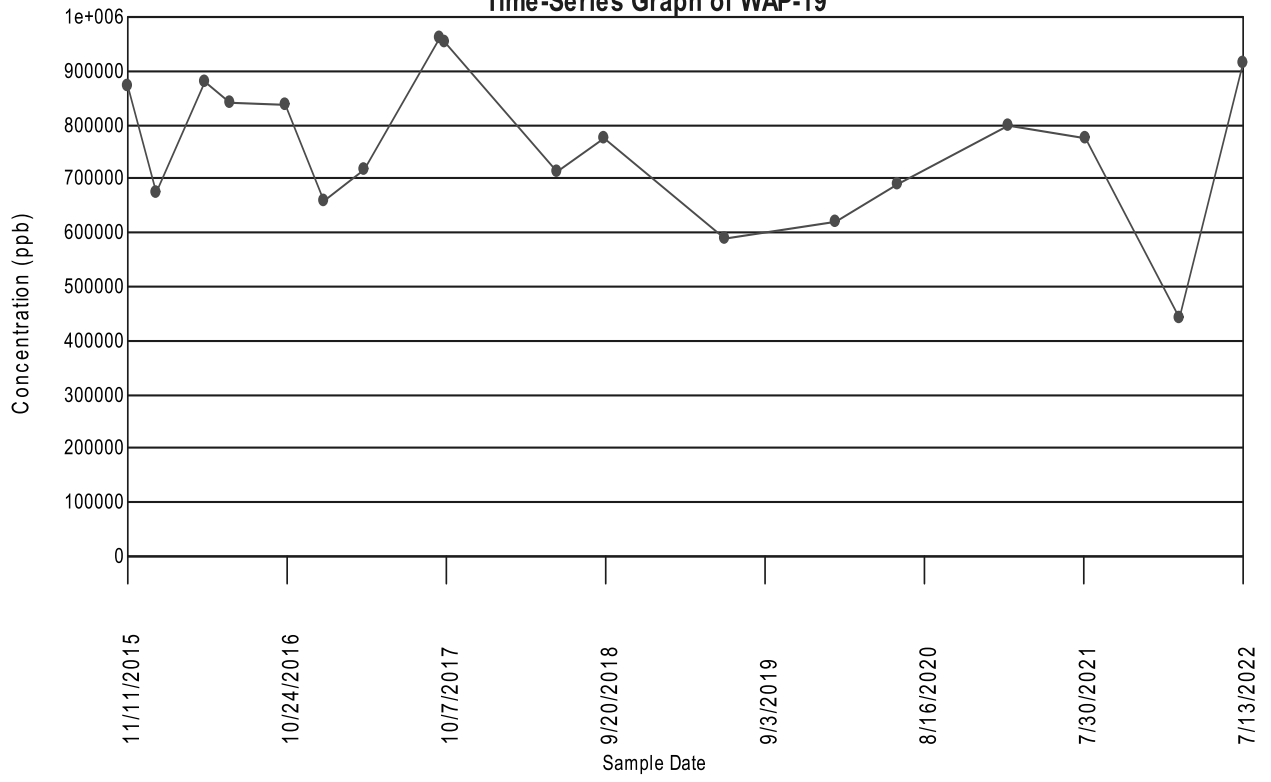
Sulfate  
Time-Series Graph of WAP-17



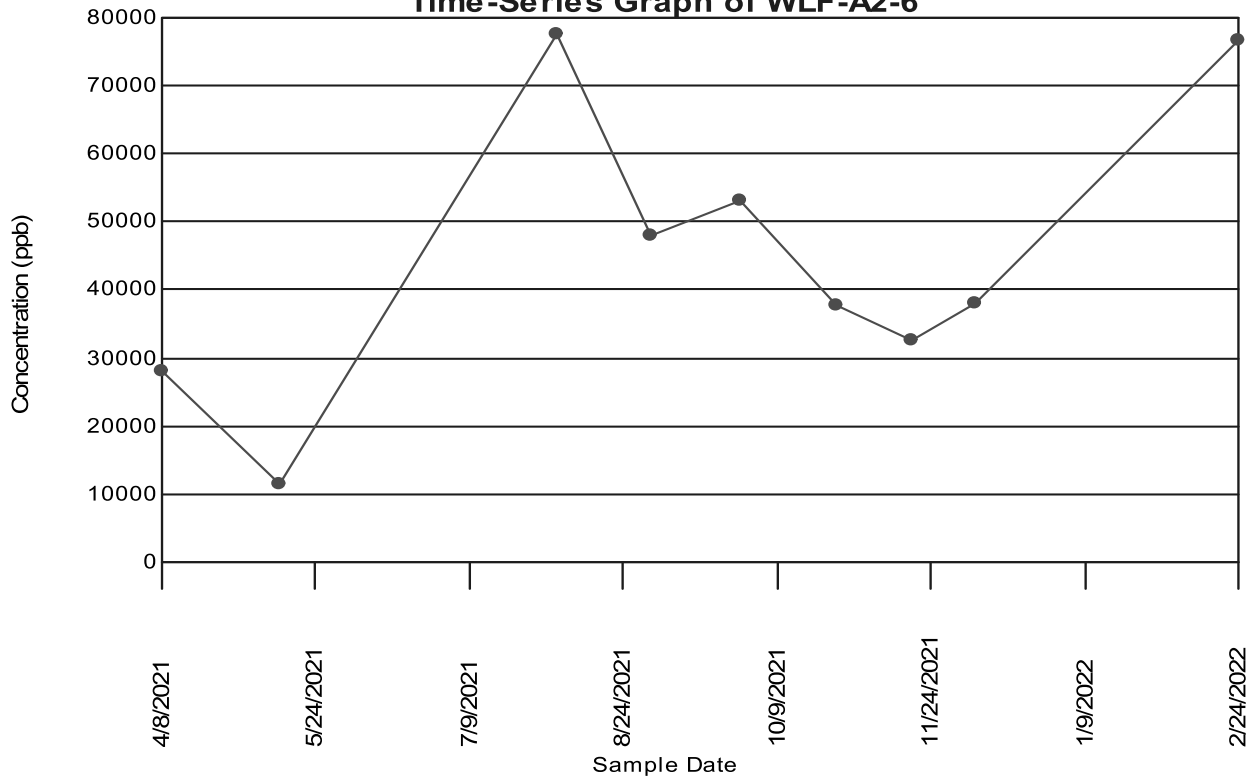
Sulfate  
Time-Series Graph of WAP-18



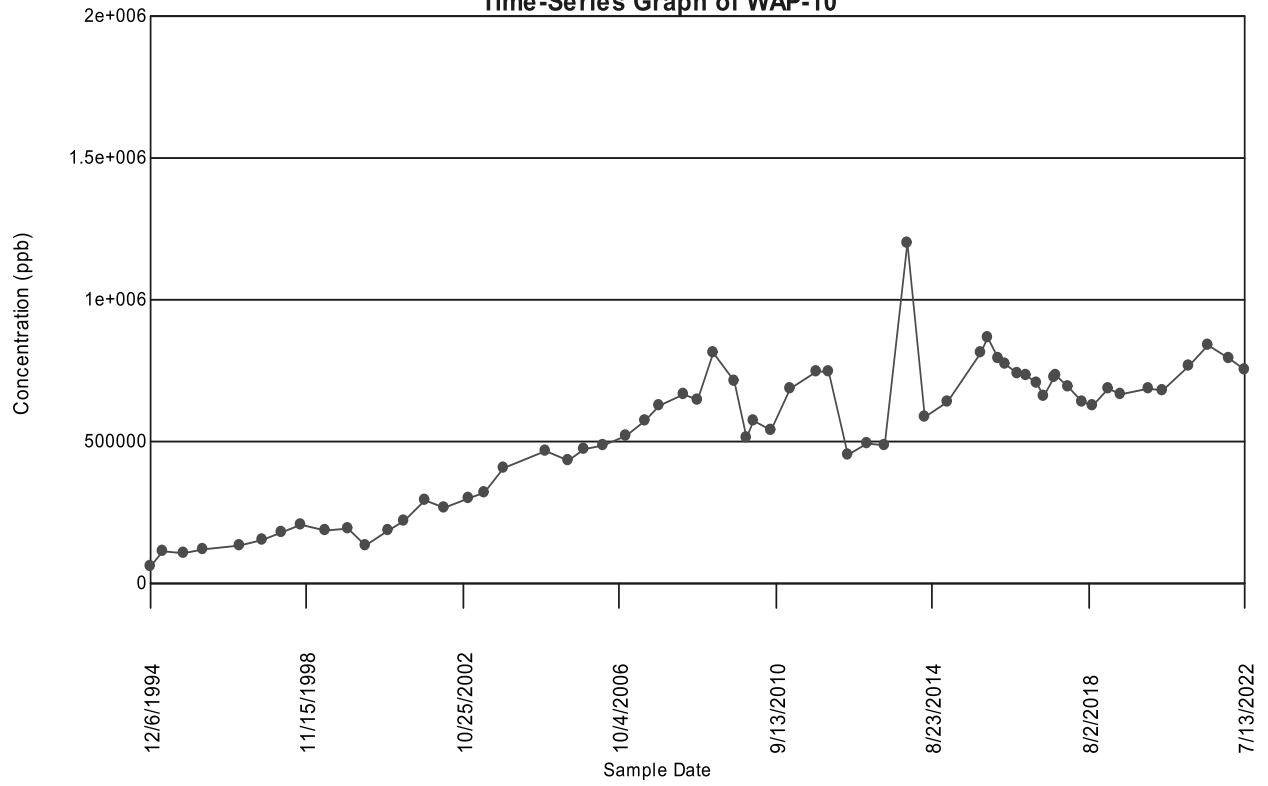
Sulfate  
Time-Series Graph of WAP-19



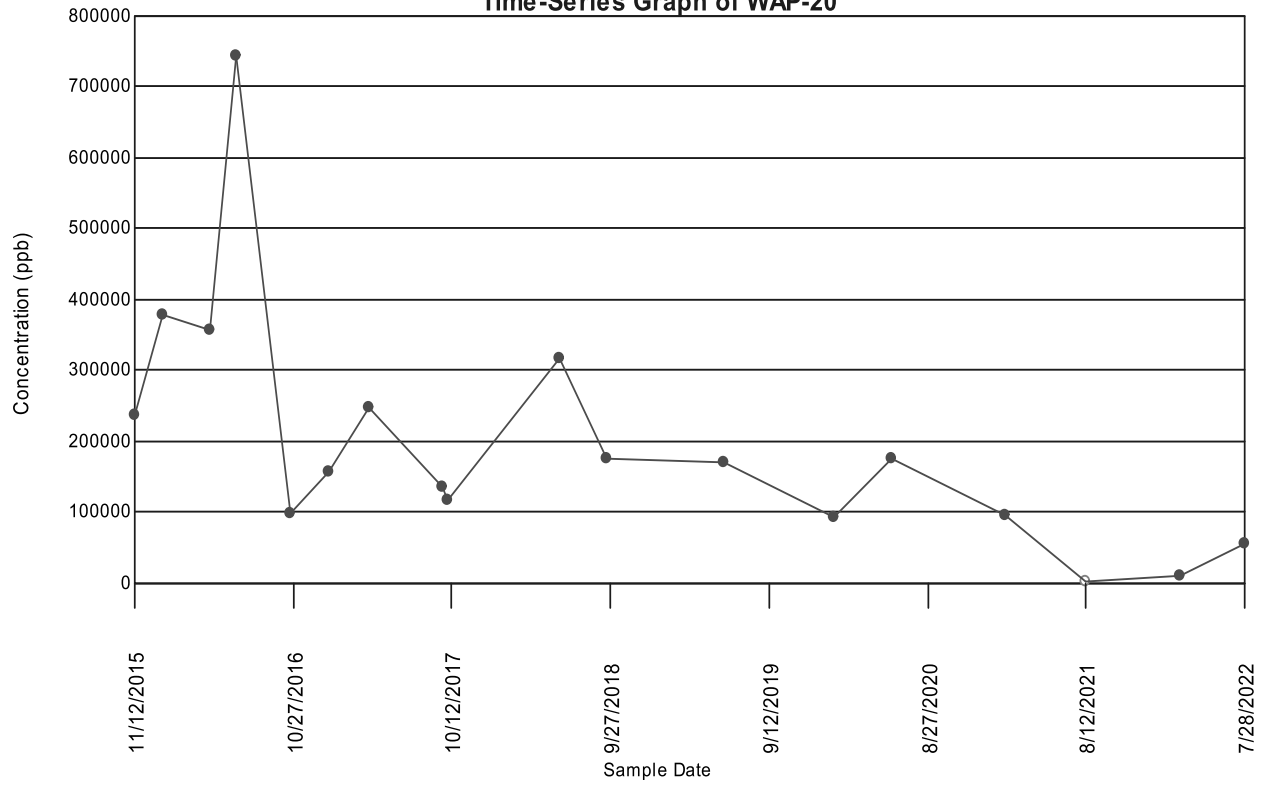
### Sulfate Time-Series Graph of WLF-A2-6



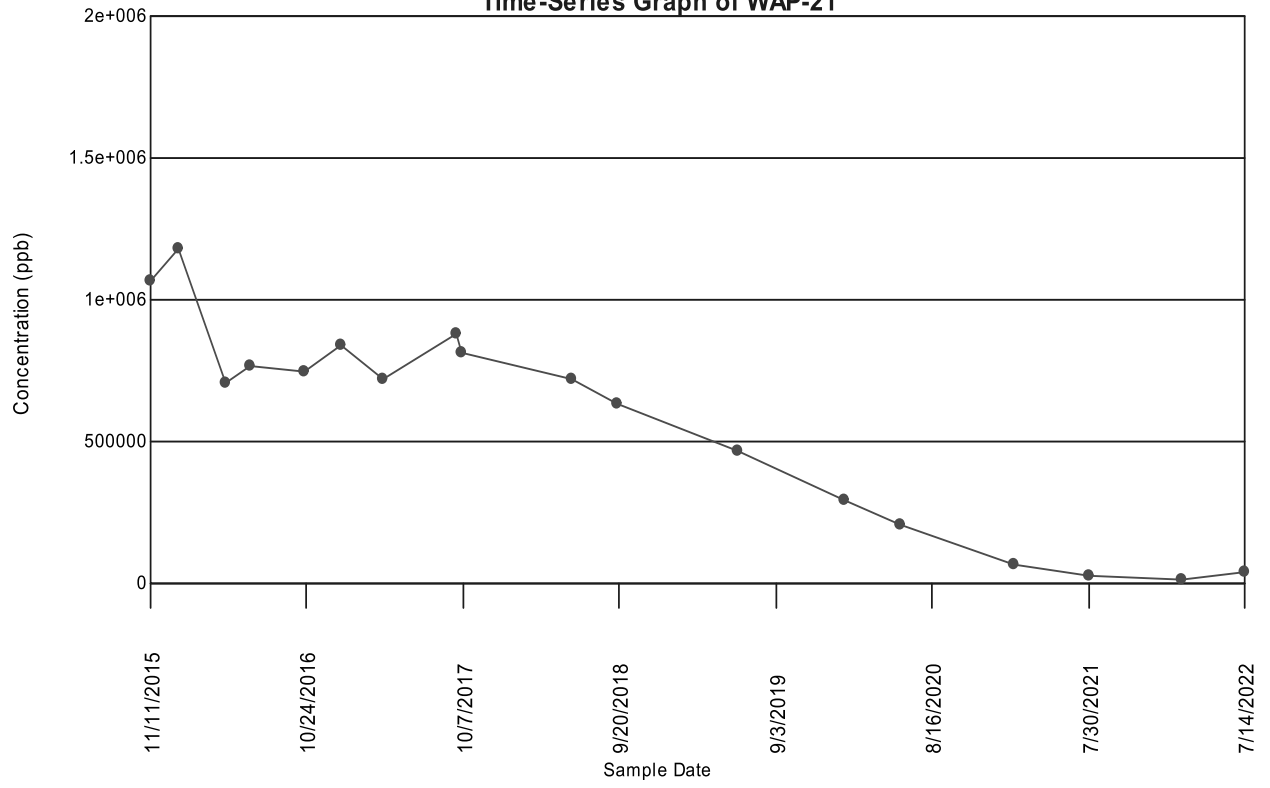
Sulfate  
Time-Series Graph of WAP-10



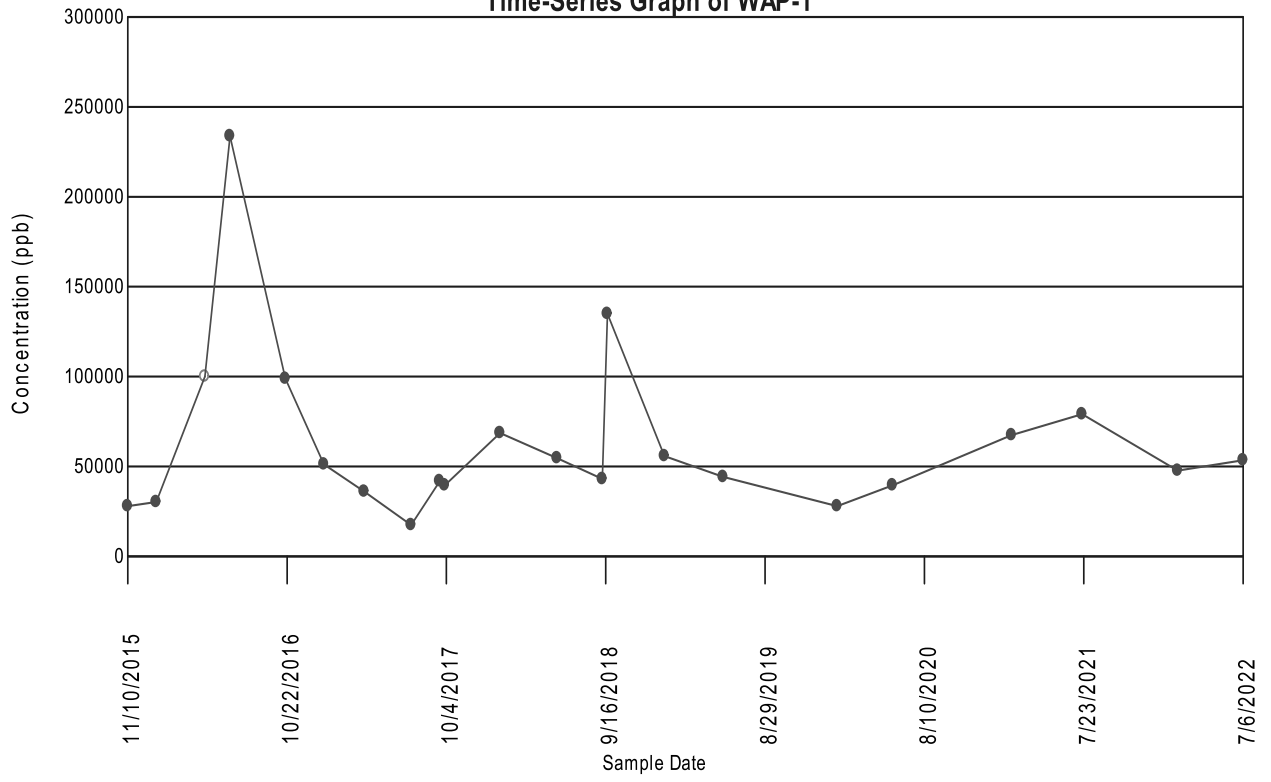
Sulfate  
Time-Series Graph of WAP-20



Sulfate  
Time-Series Graph of WAP-21

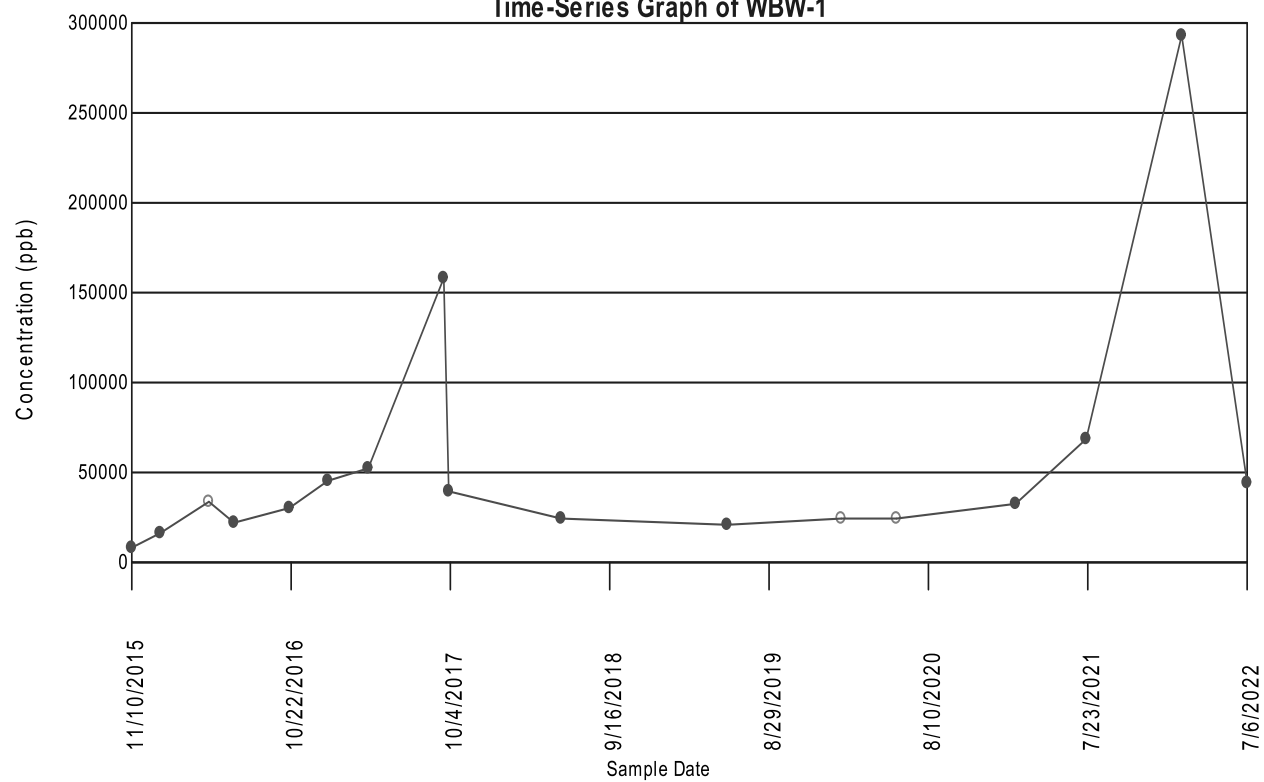


**Total Dissolved Solids (TDS)  
Time-Series Graph of WAP-1**

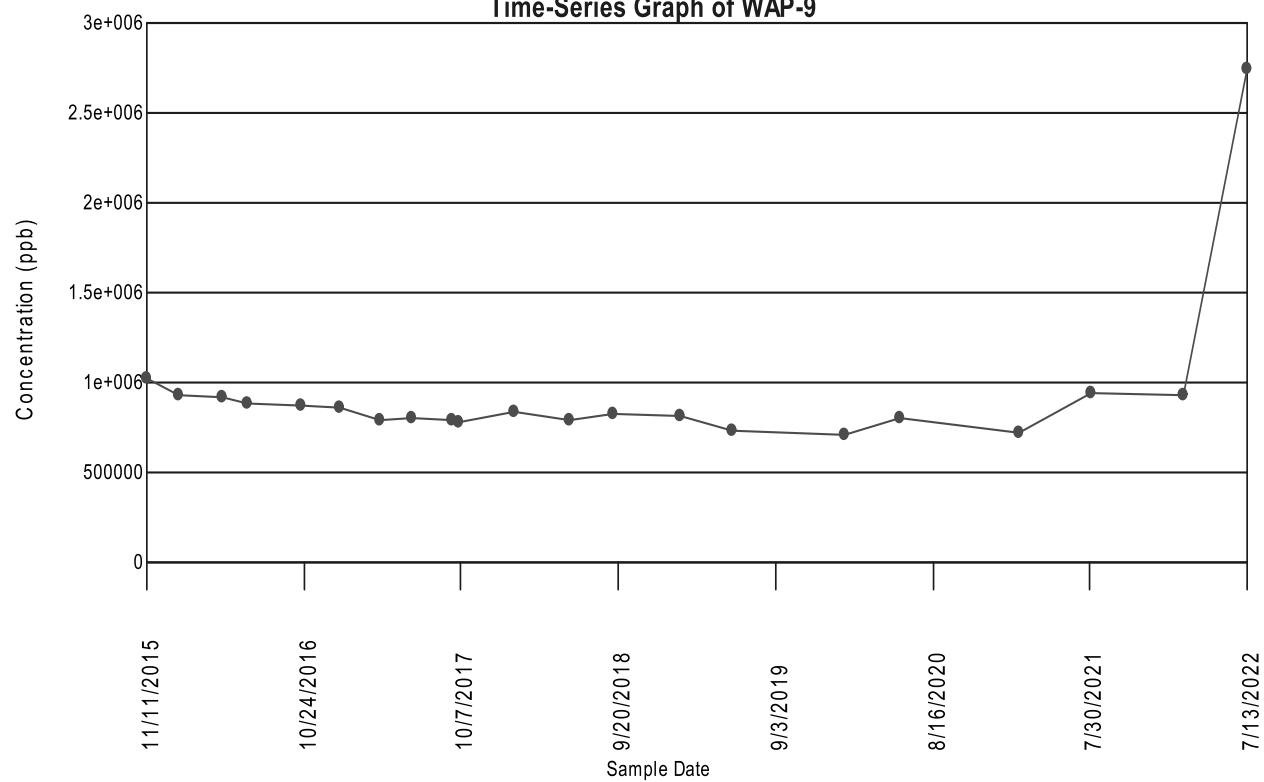




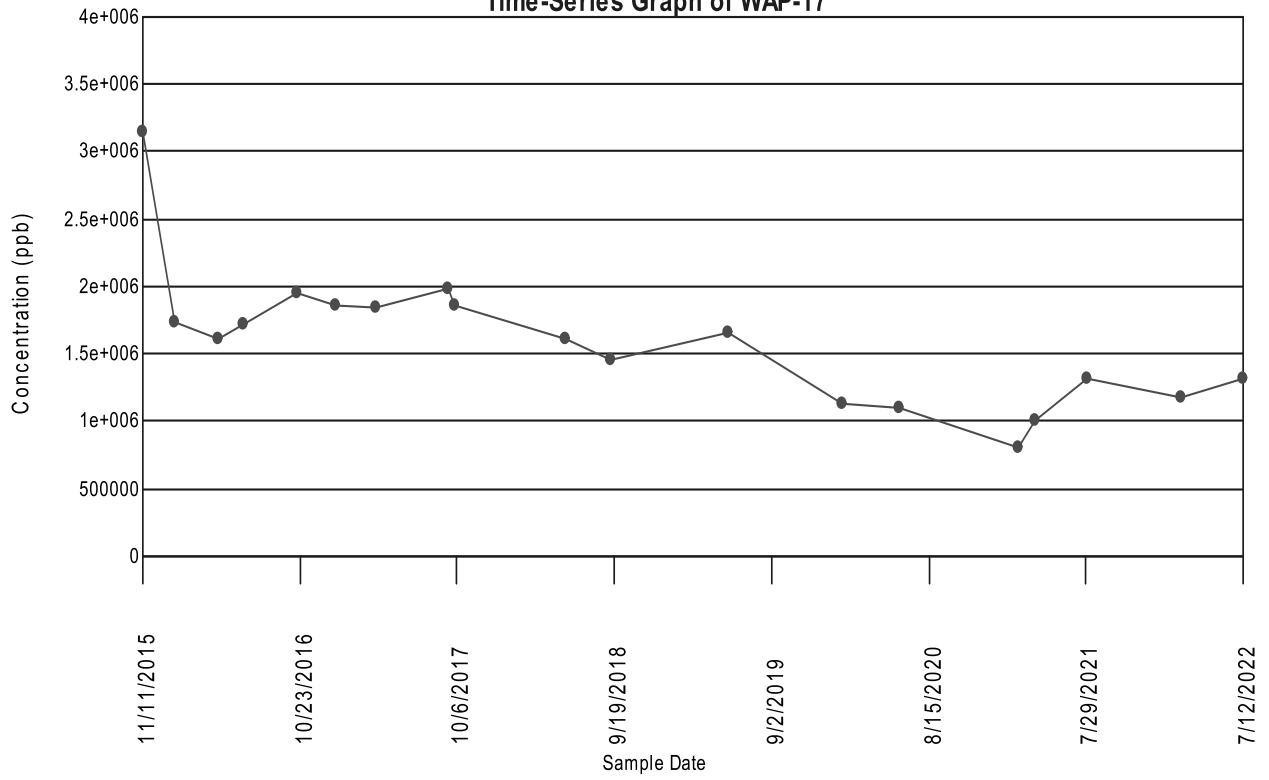
### Total Dissolved Solids (TDS) Time-Series Graph of WBW-1



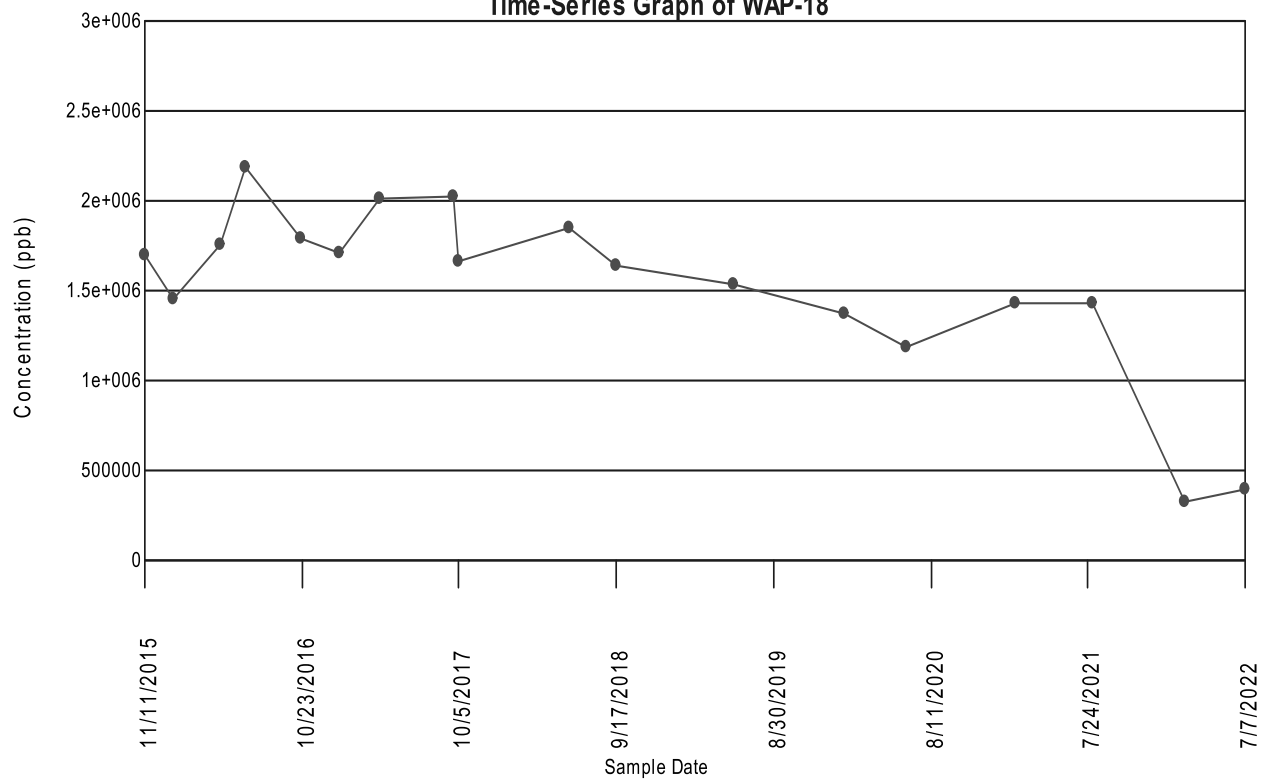
### Total Dissolved Solids (TDS) Time-Series Graph of WAP-9



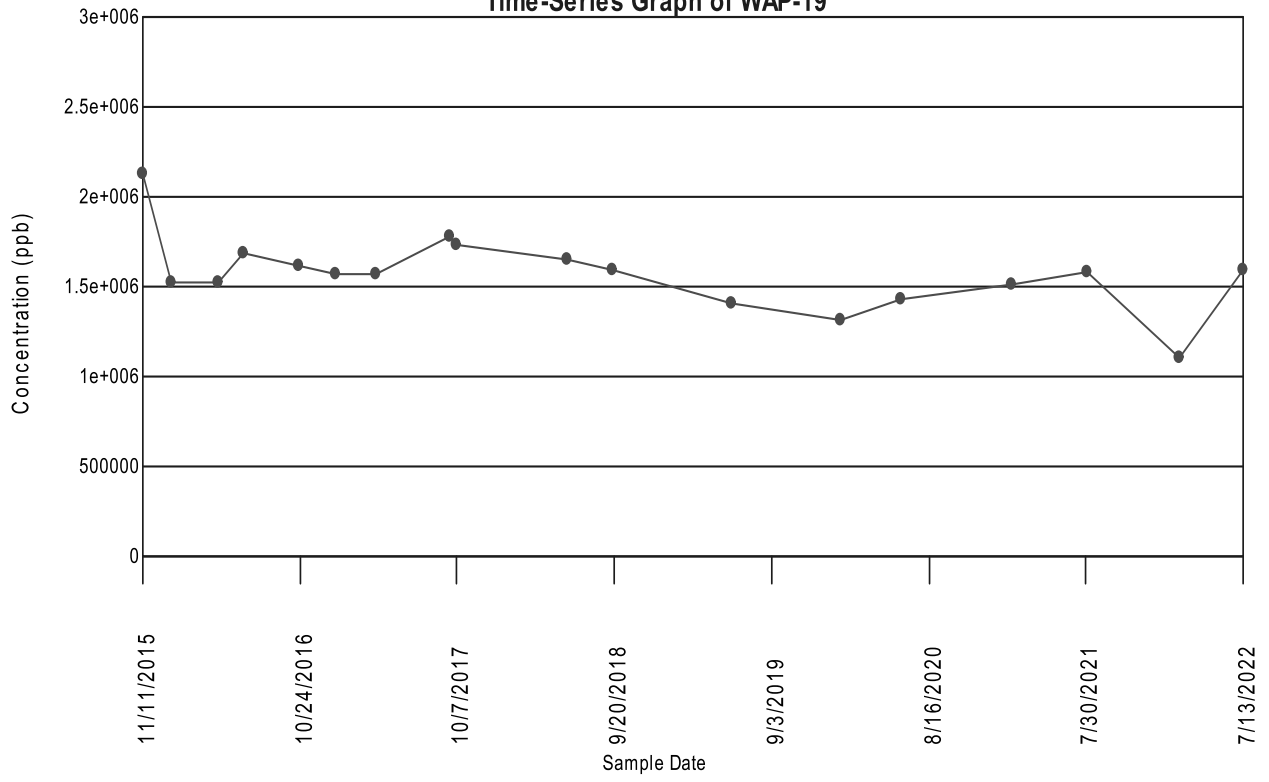
### Total Dissolved Solids (TDS) Time-Series Graph of WAP-17



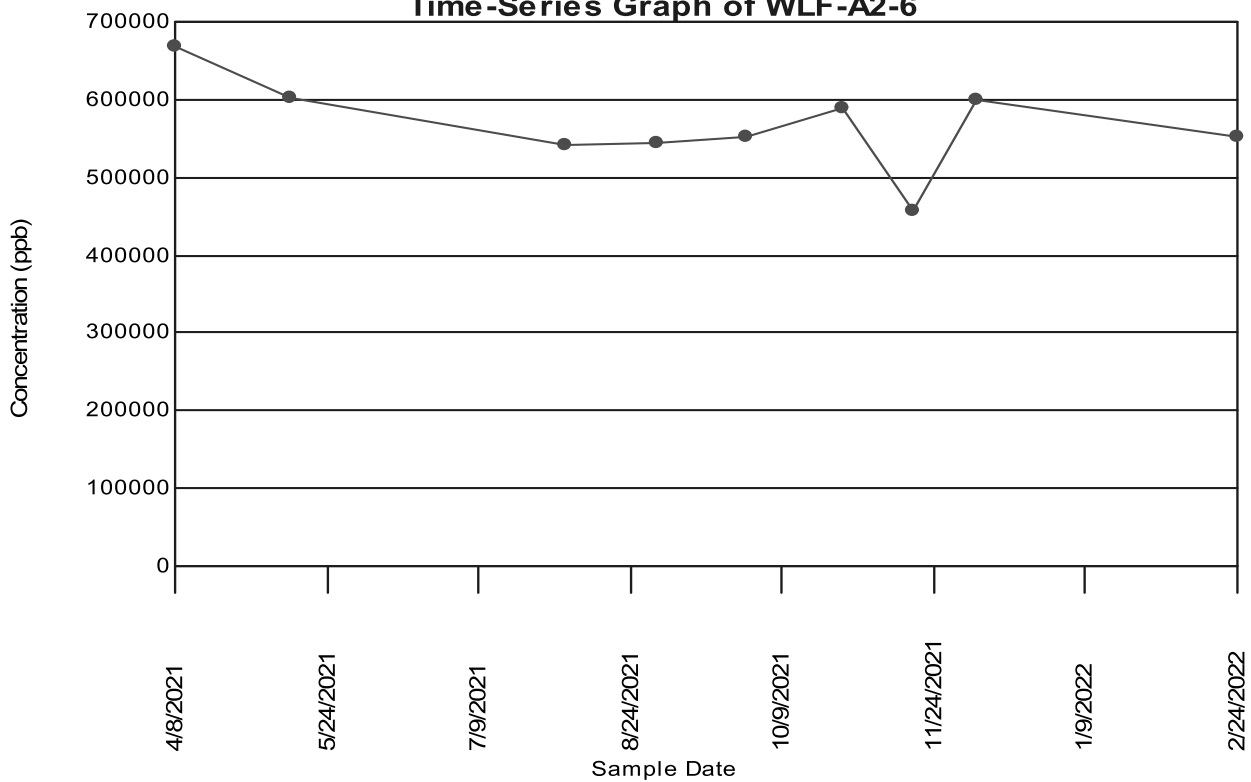
### Total Dissolved Solids (TDS) Time-Series Graph of WAP-18



### Total Dissolved Solids (TDS) Time-Series Graph of WAP-19

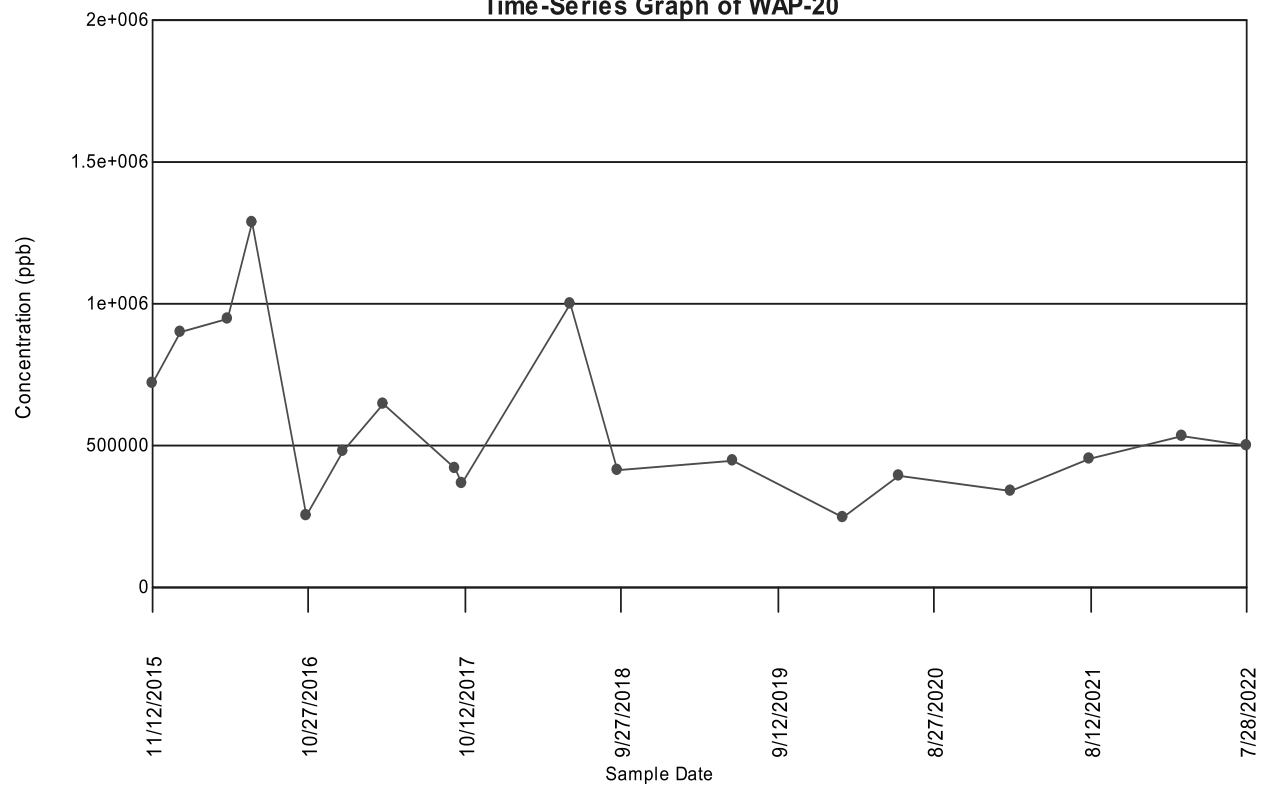


### Total Dissolved Solids (TDS) Time-Series Graph of WLF-A2-6



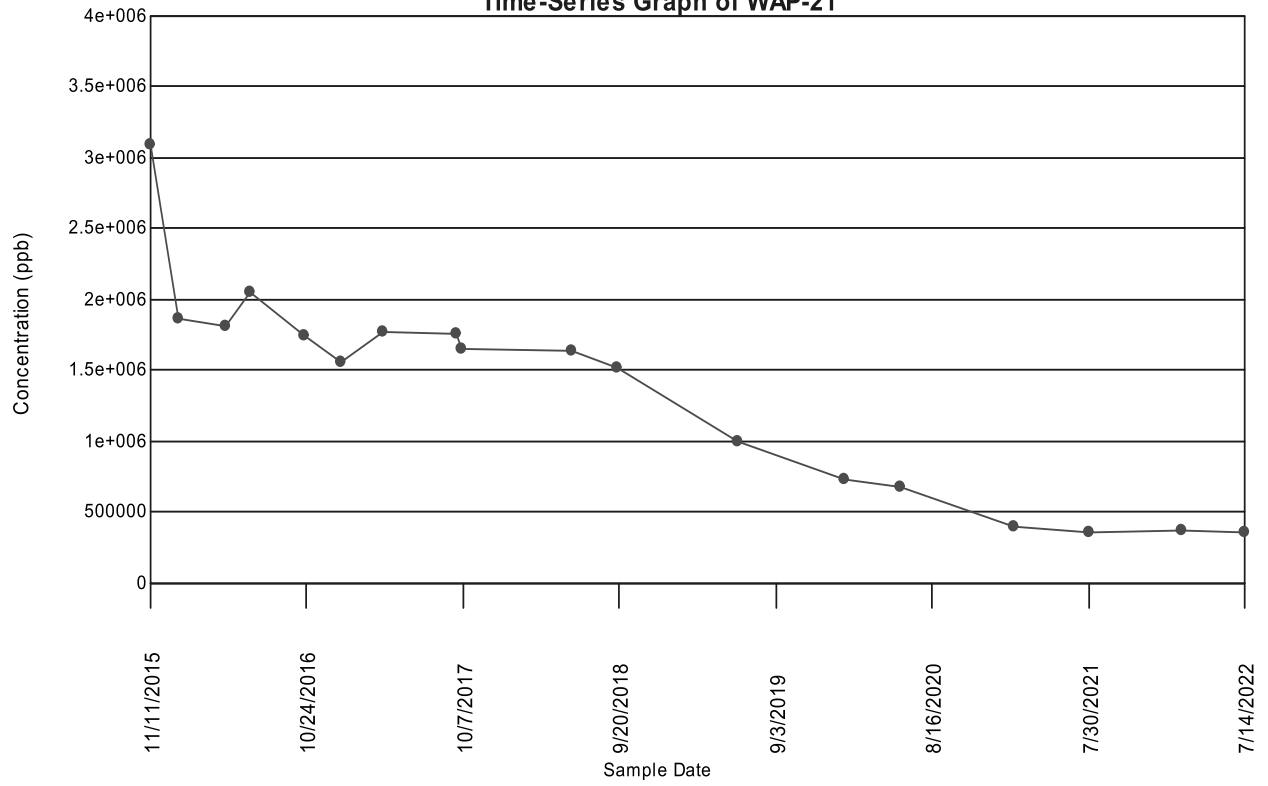


Total Dissolved Solids (TDS)  
Time-Series Graph of WAP-20



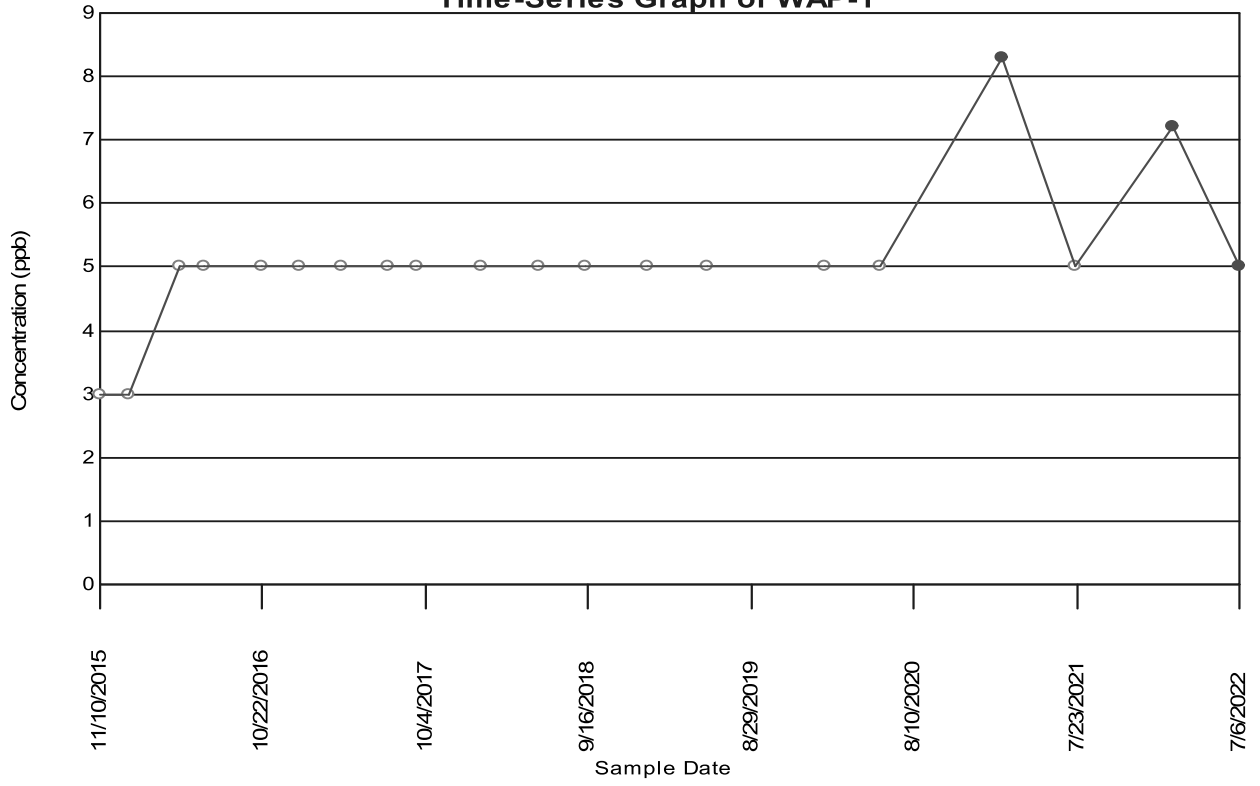


Total Dissolved Solids (TDS)  
Time-Series Graph of WAP-21

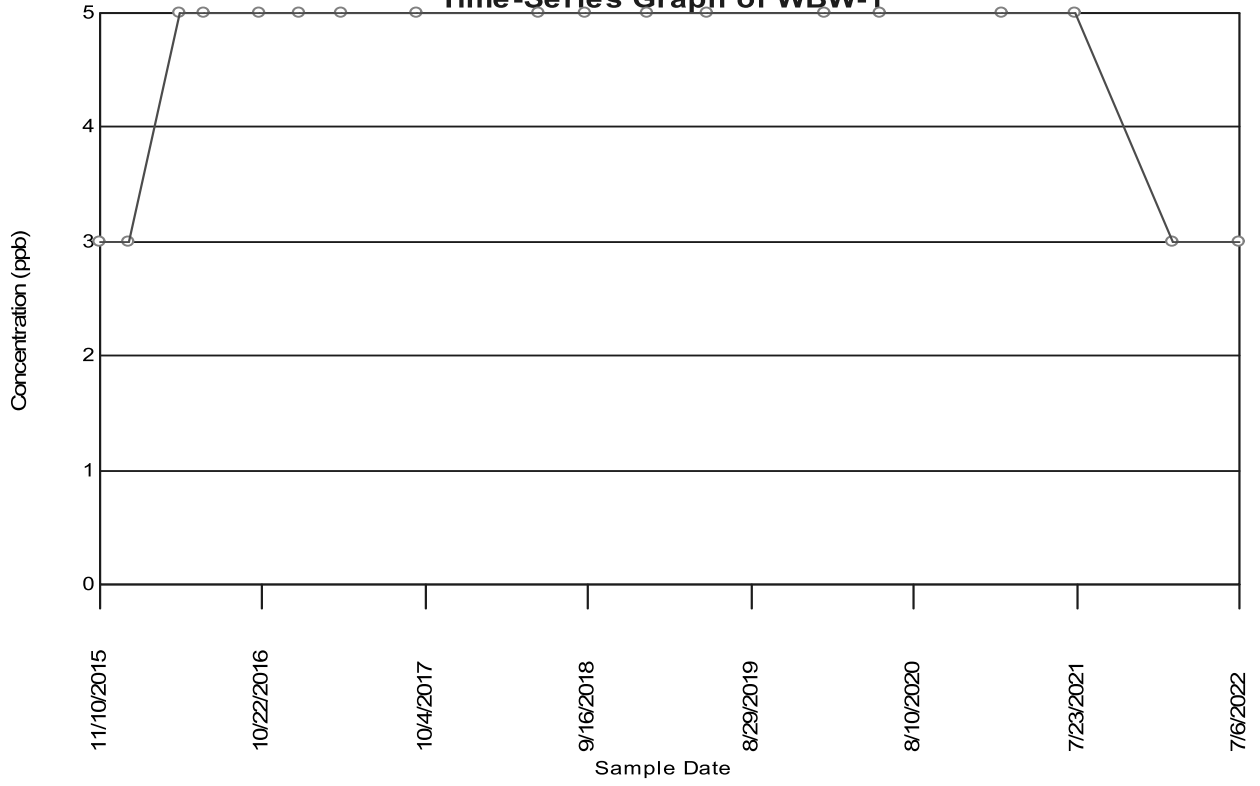


**APPENDIX E**  
**Time-Series Plots for Appendix IV Constituents –**  
**Arsenic, Lithium, and Molybdenum, Ash Ponds A and B**

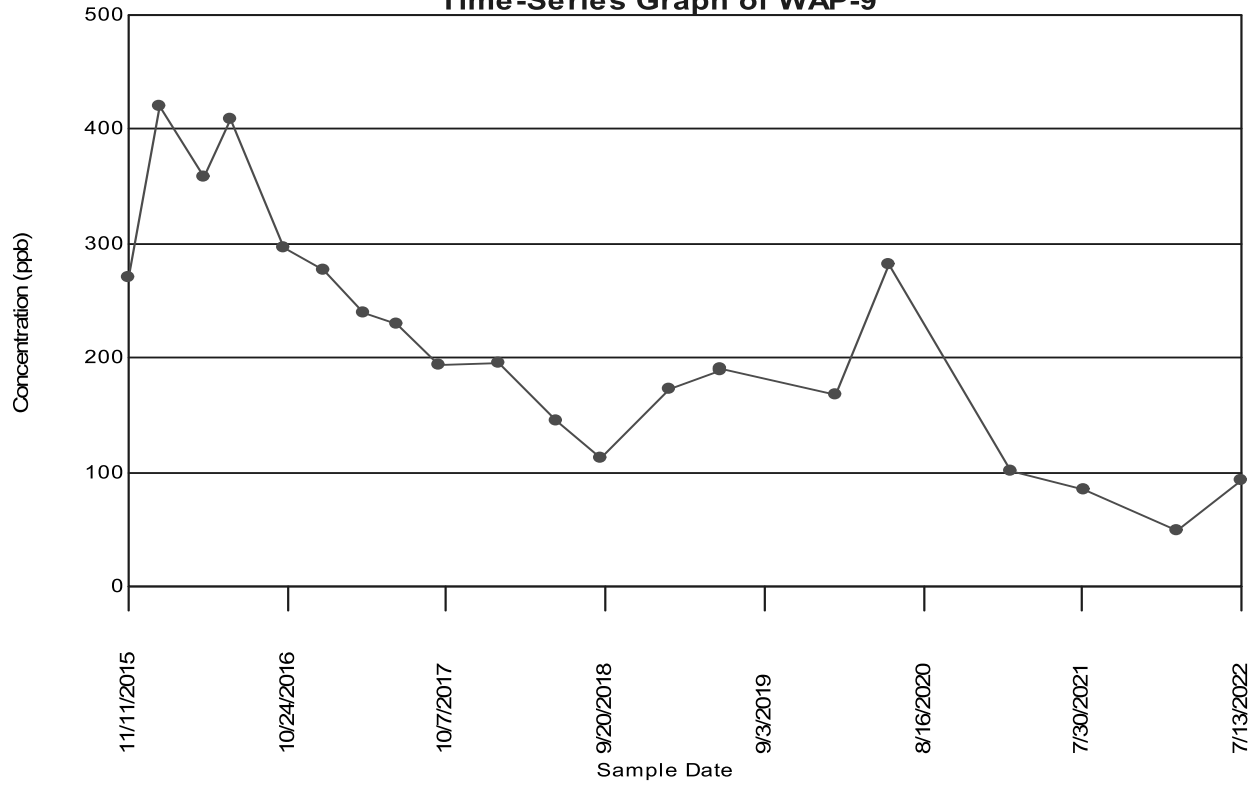
**Arsenic**  
**Time-Series Graph of WAP-1**



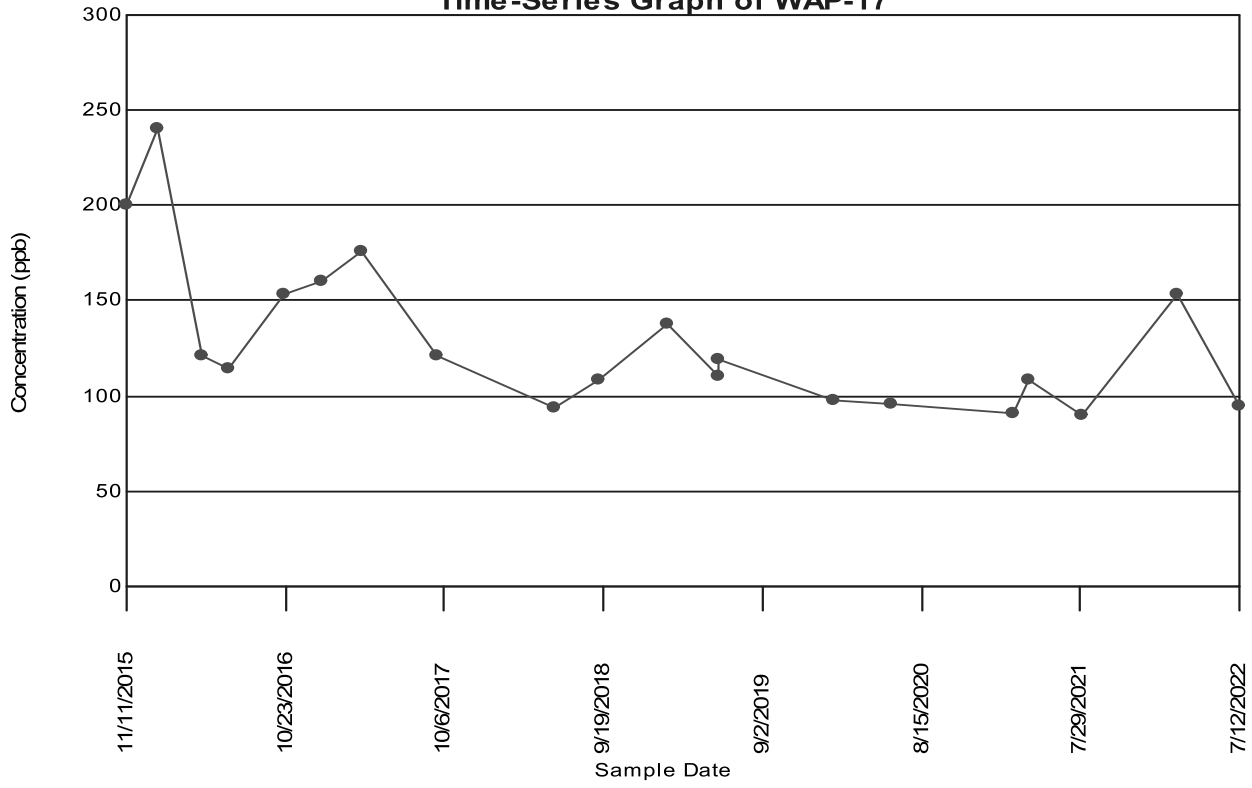
**Arsenic**  
**Time-Series Graph of WBW-1**



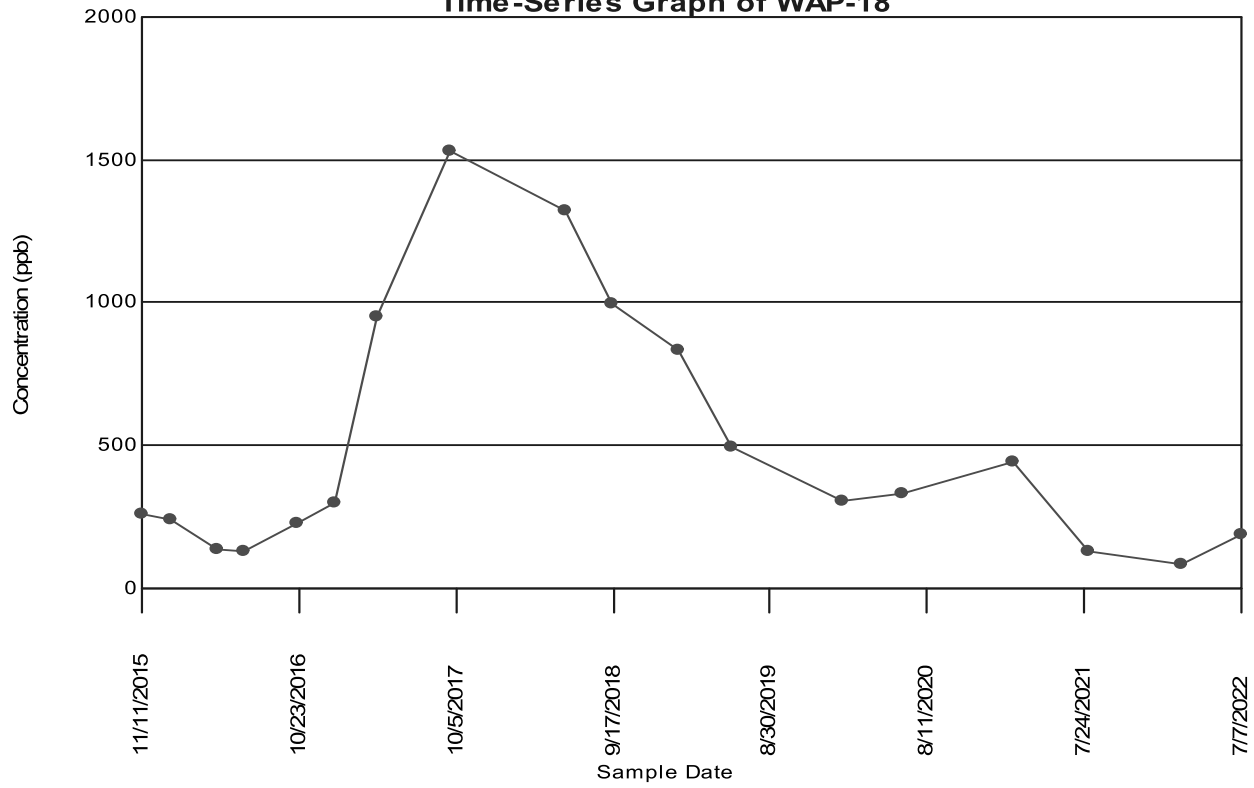
**Arsenic**  
**Time-Series Graph of WAP-9**



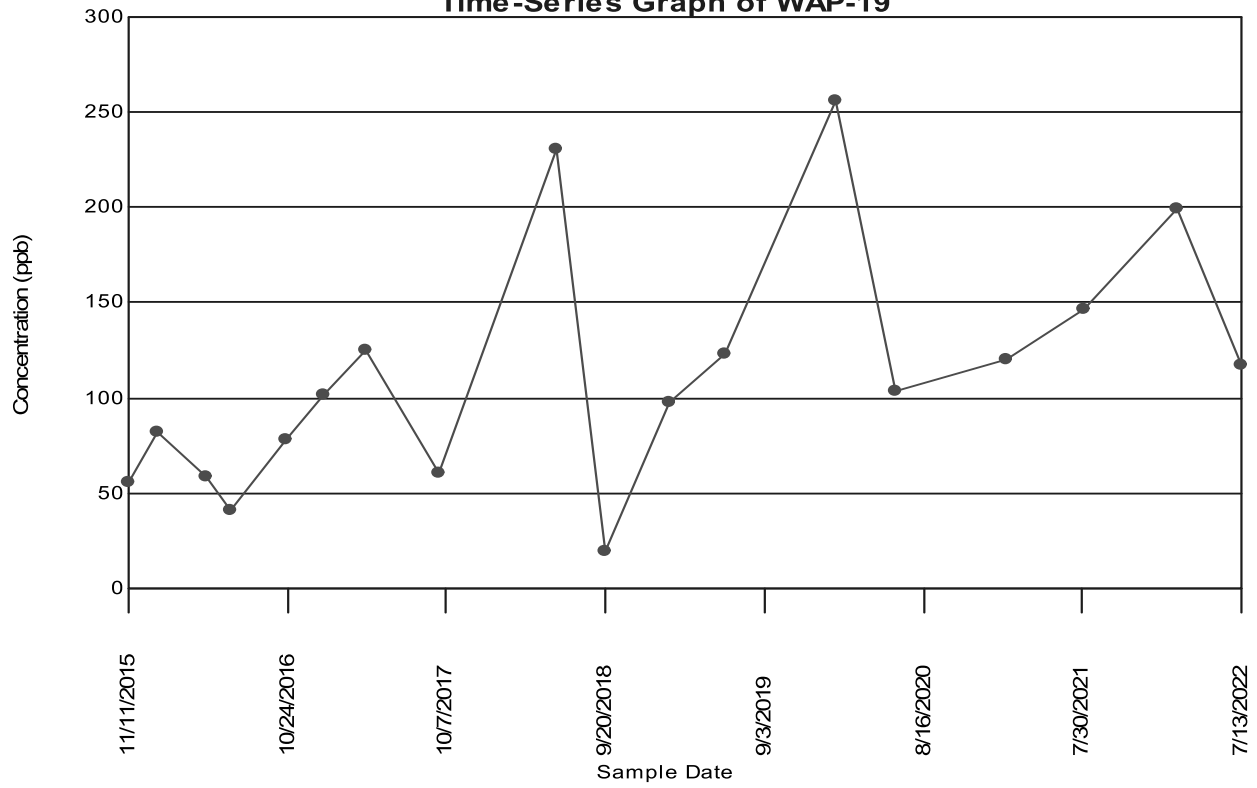
**Arsenic**  
**Time-Series Graph of WAP-17**



**Arsenic**  
**Time-Series Graph of WAP-18**

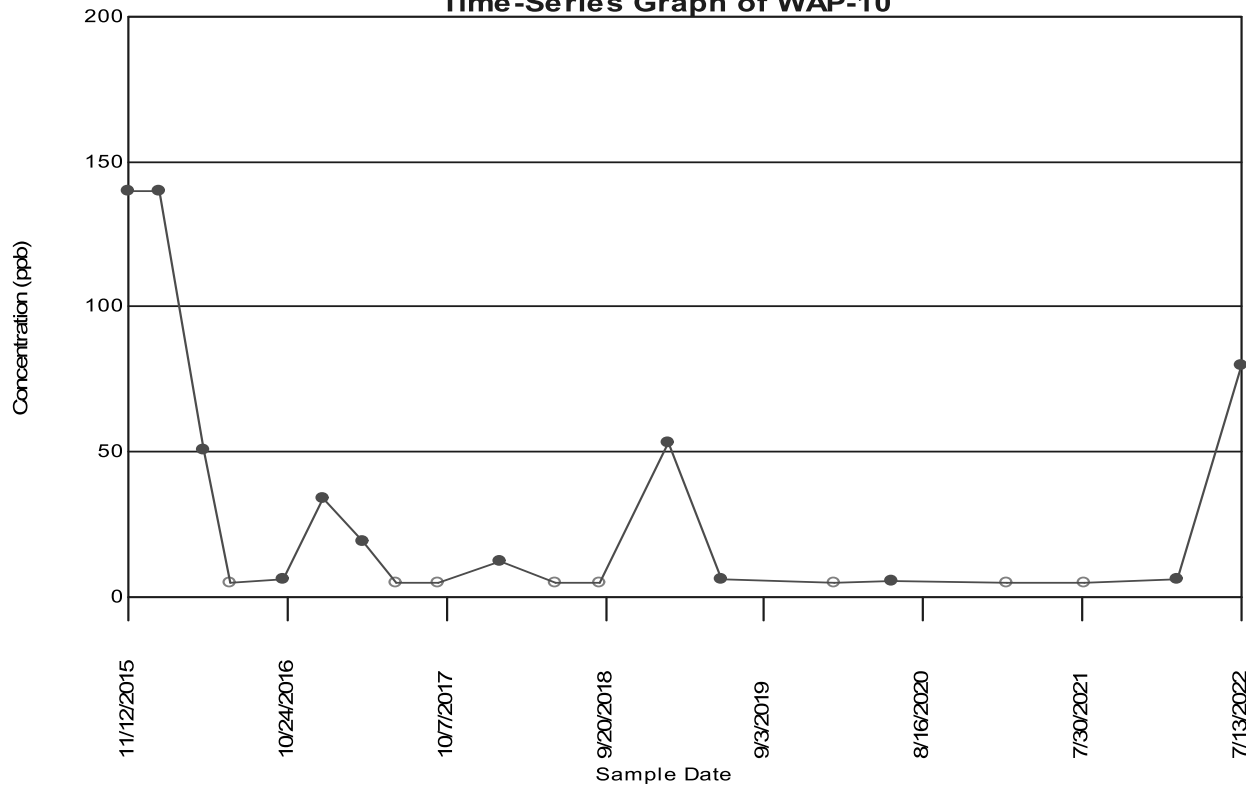


**Arsenic**  
**Time-Series Graph of WAP-19**

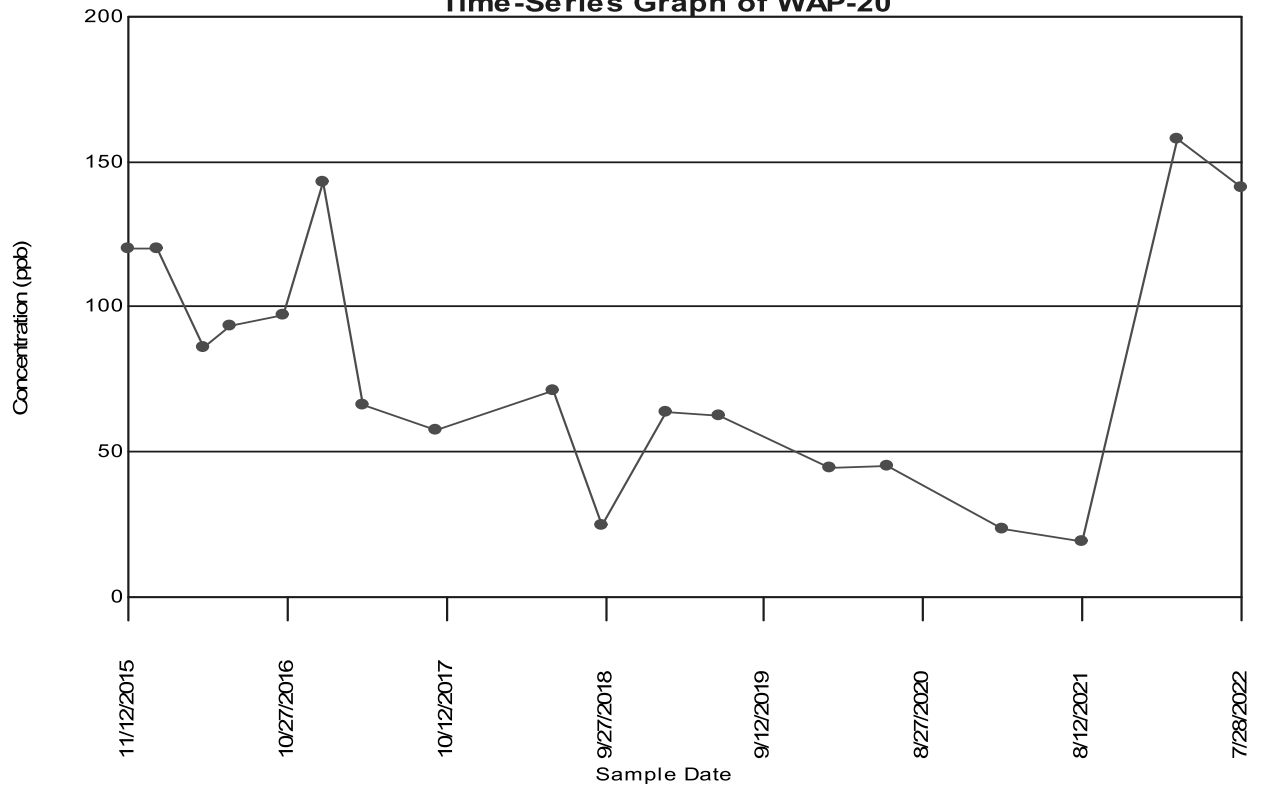




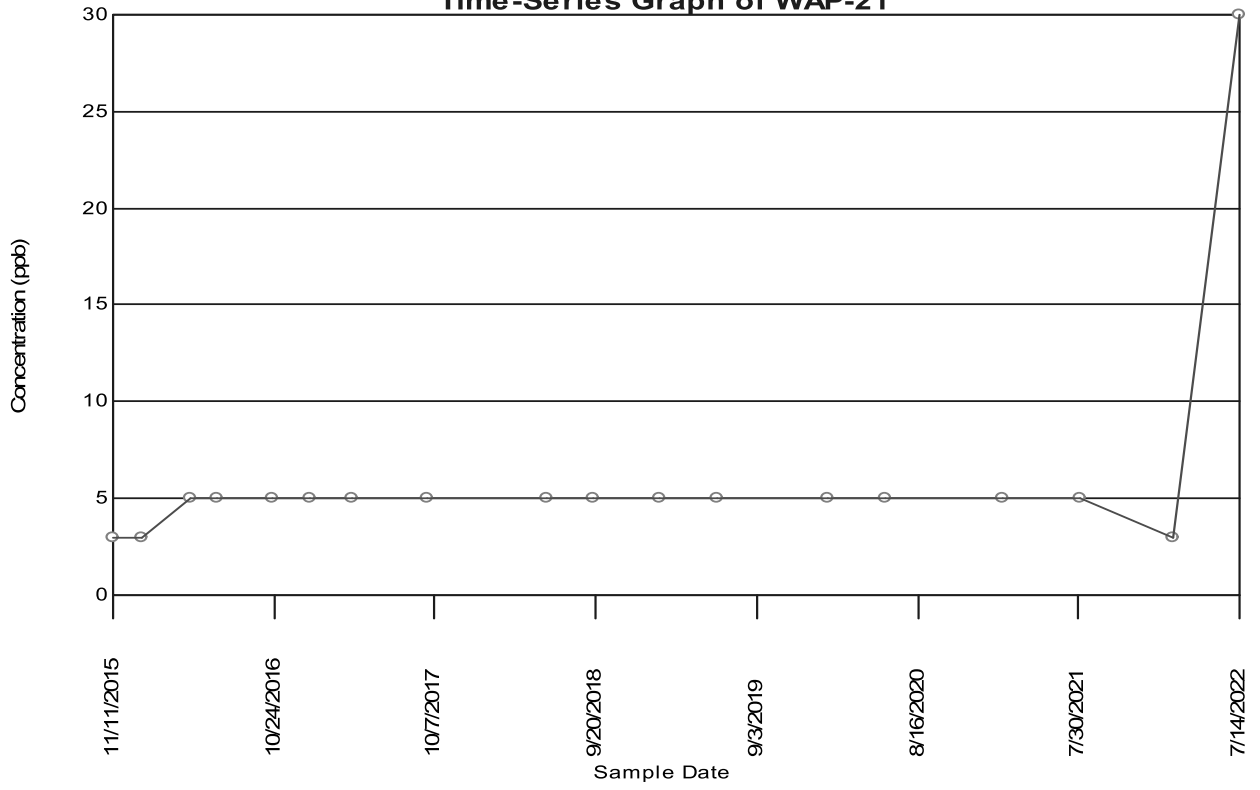
**Arsenic**  
**Time-Series Graph of WAP-10**



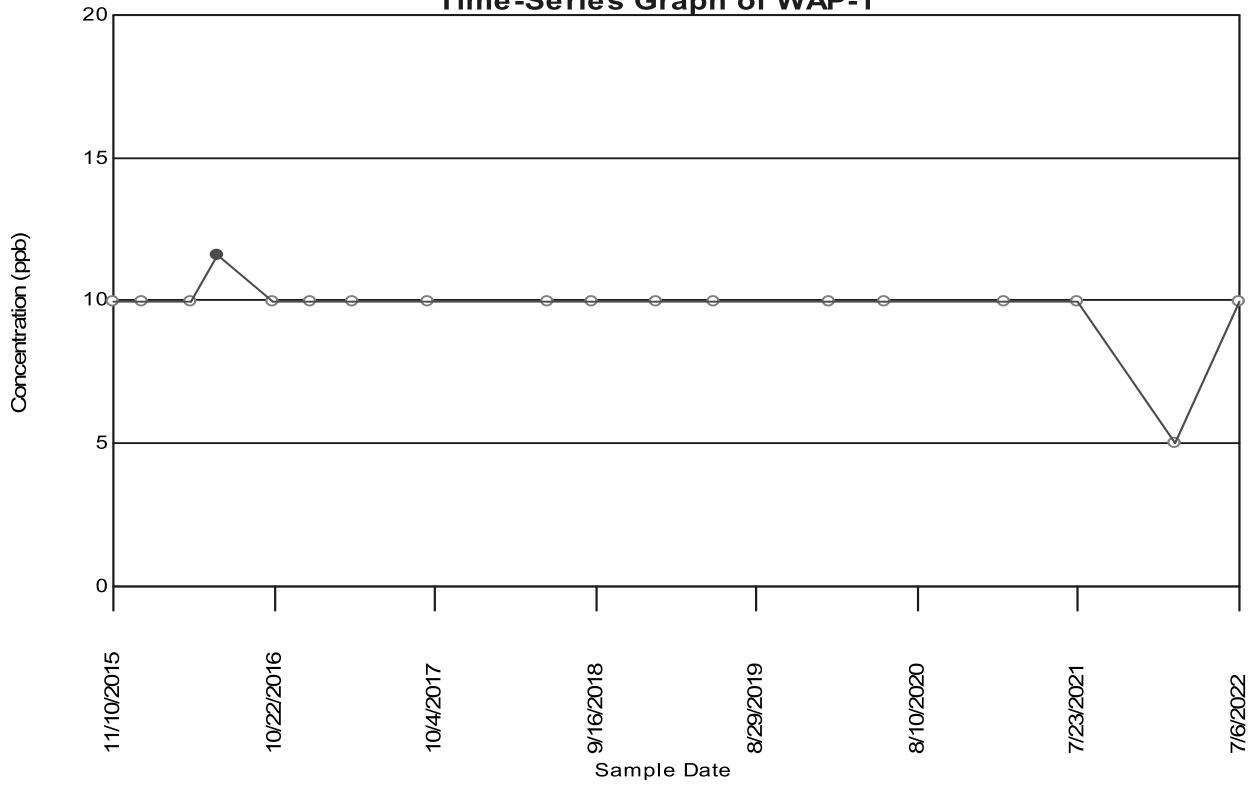
**Arsenic**  
**Time-Series Graph of WAP-20**



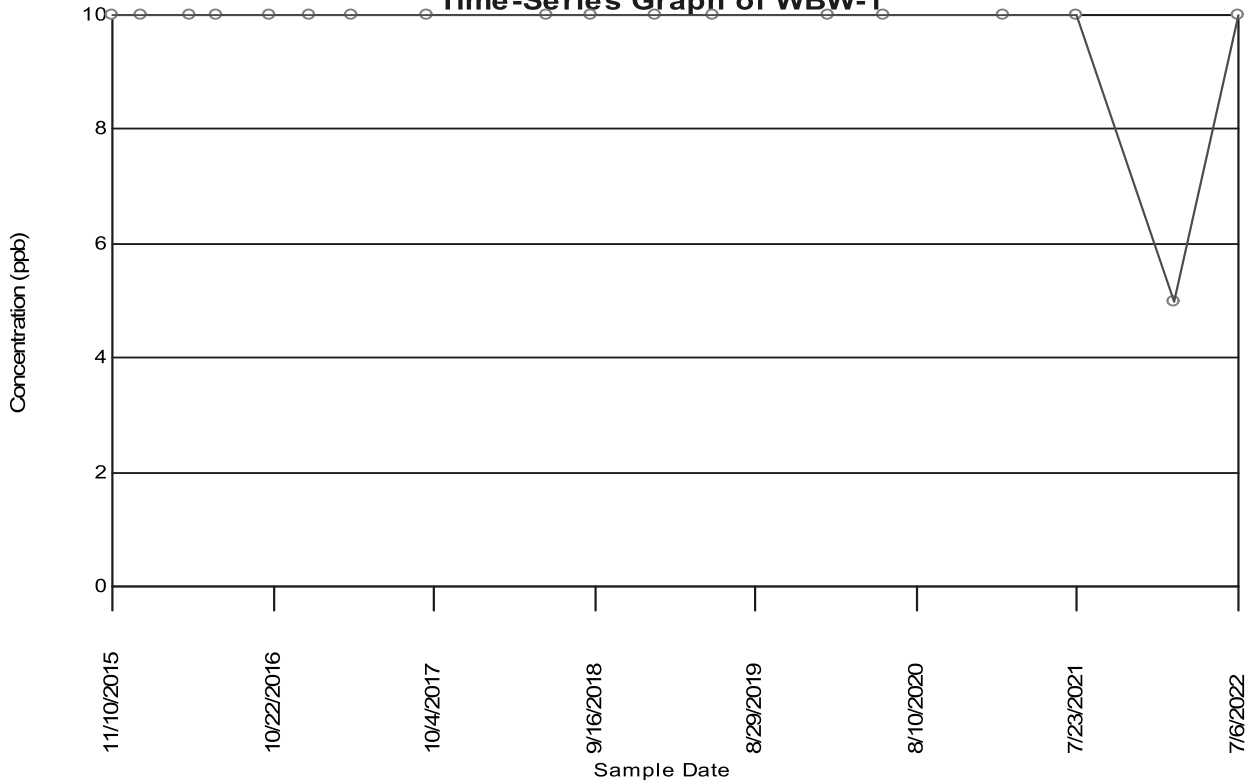
**Arsenic**  
**Time-Series Graph of WAP-21**



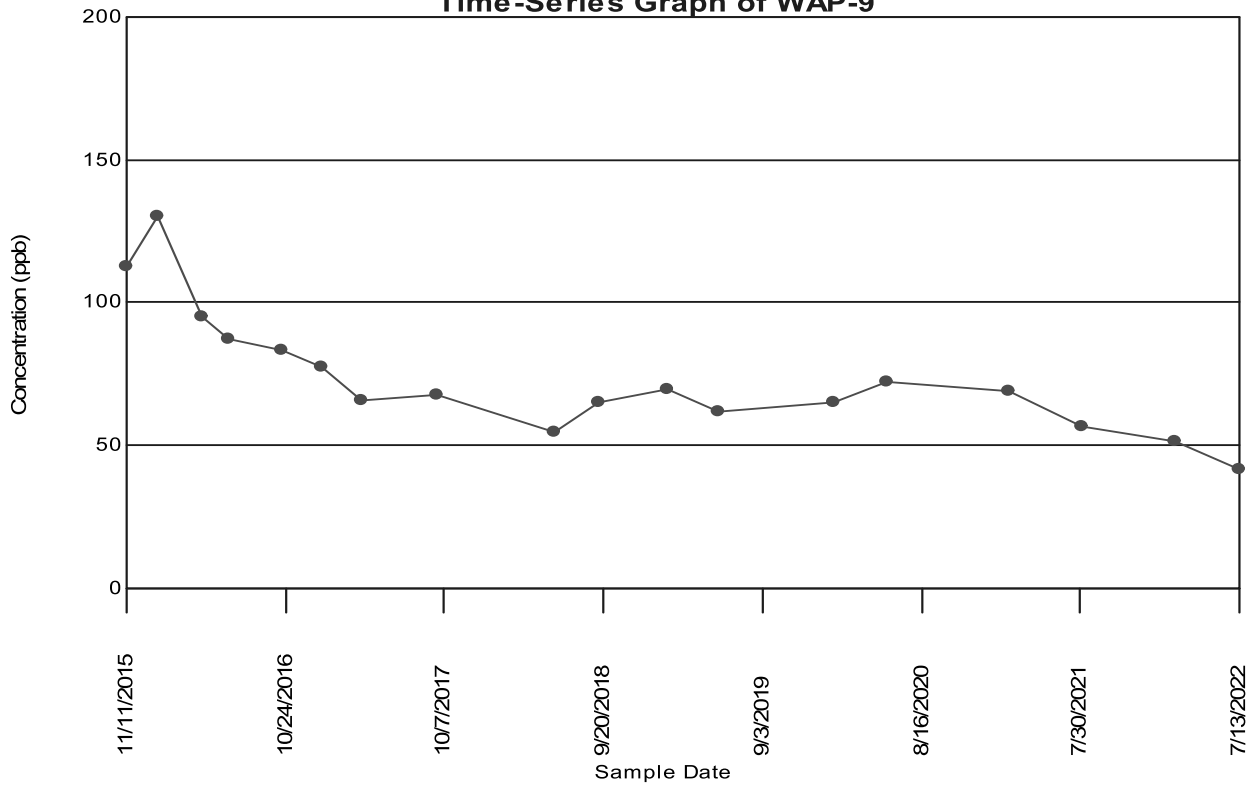
### Lithium Time-Series Graph of WAP-1



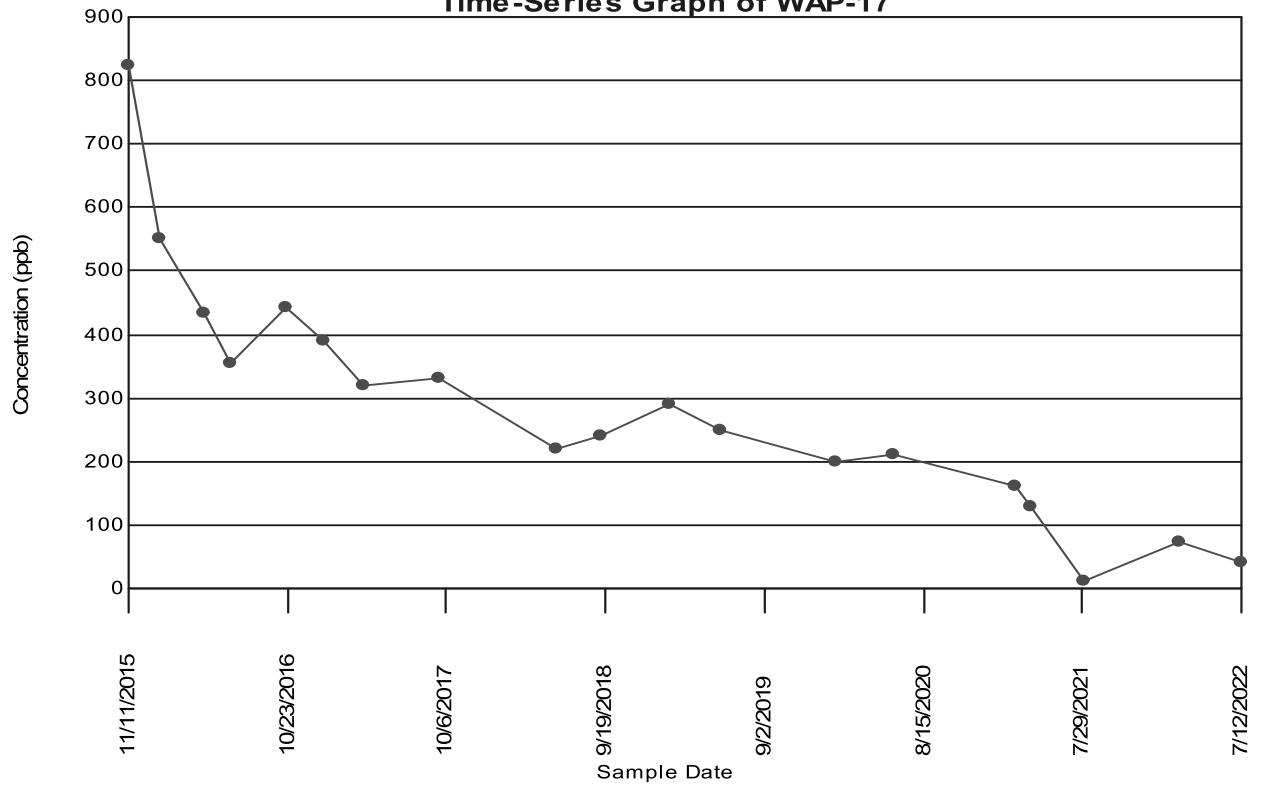
### Lithium Time-Series Graph of WBW-1



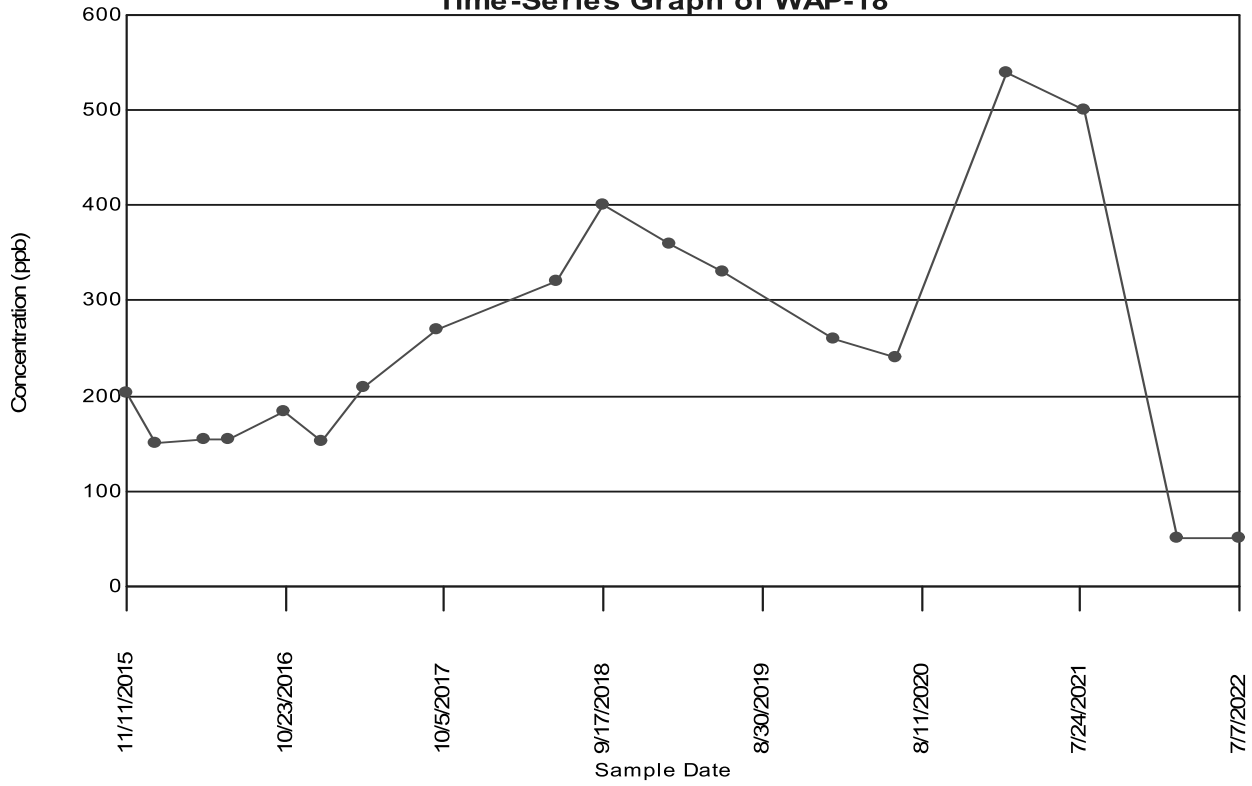
### Lithium Time-Series Graph of WAP-9



### Lithium Time-Series Graph of WAP-17

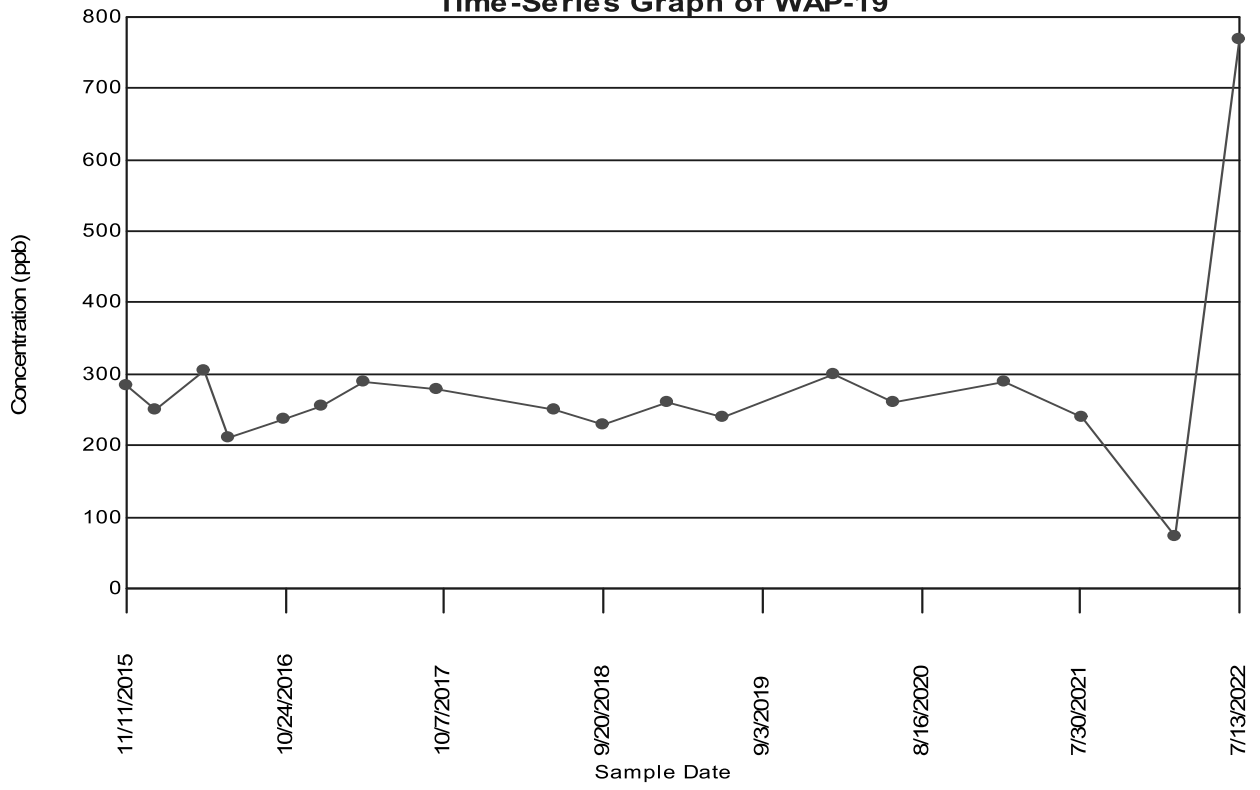


**Lithium**  
**Time-Series Graph of WAP-18**

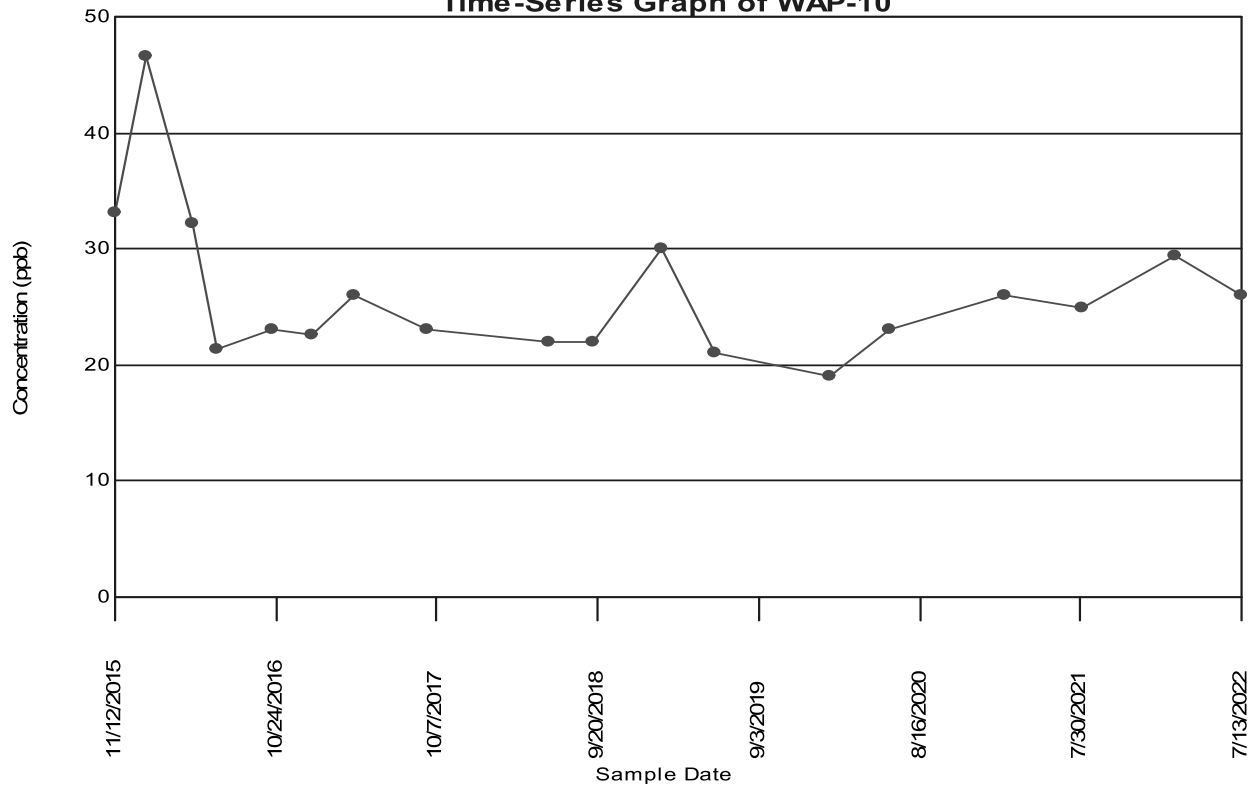




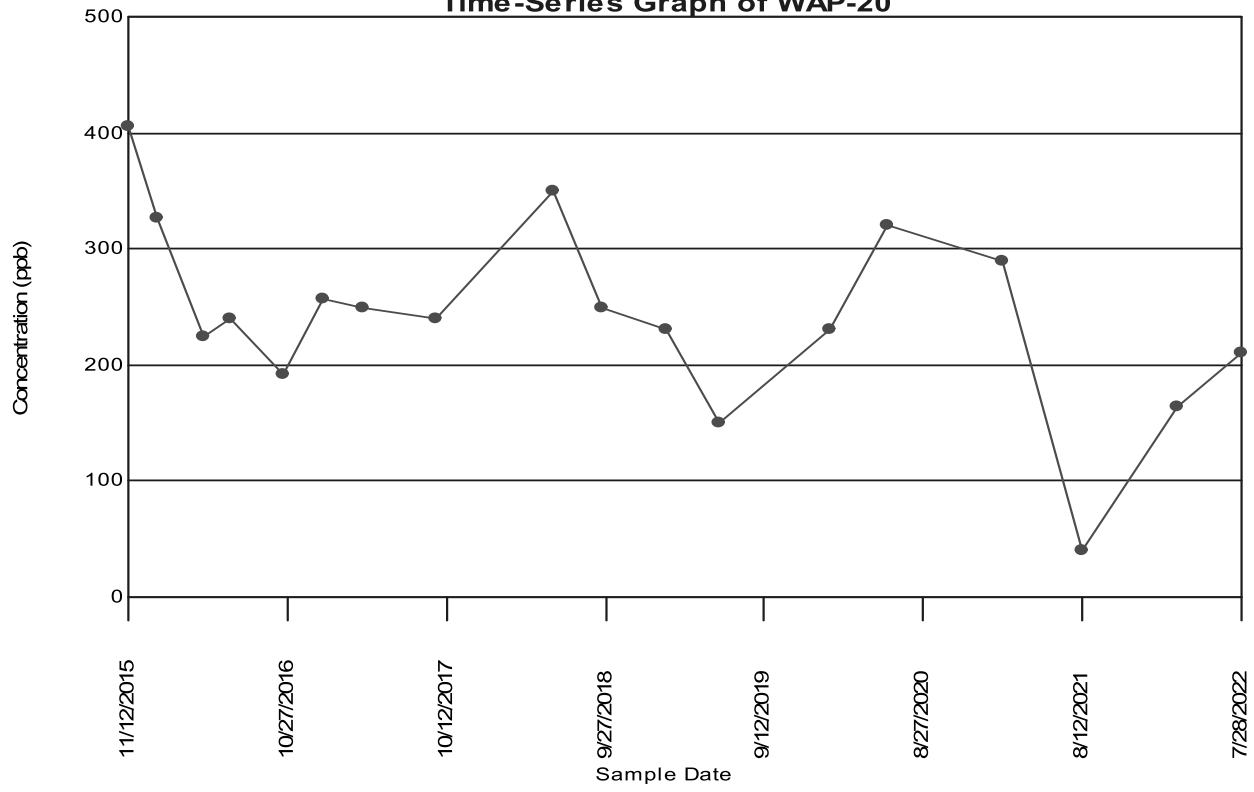
### Lithium Time-Series Graph of WAP-19



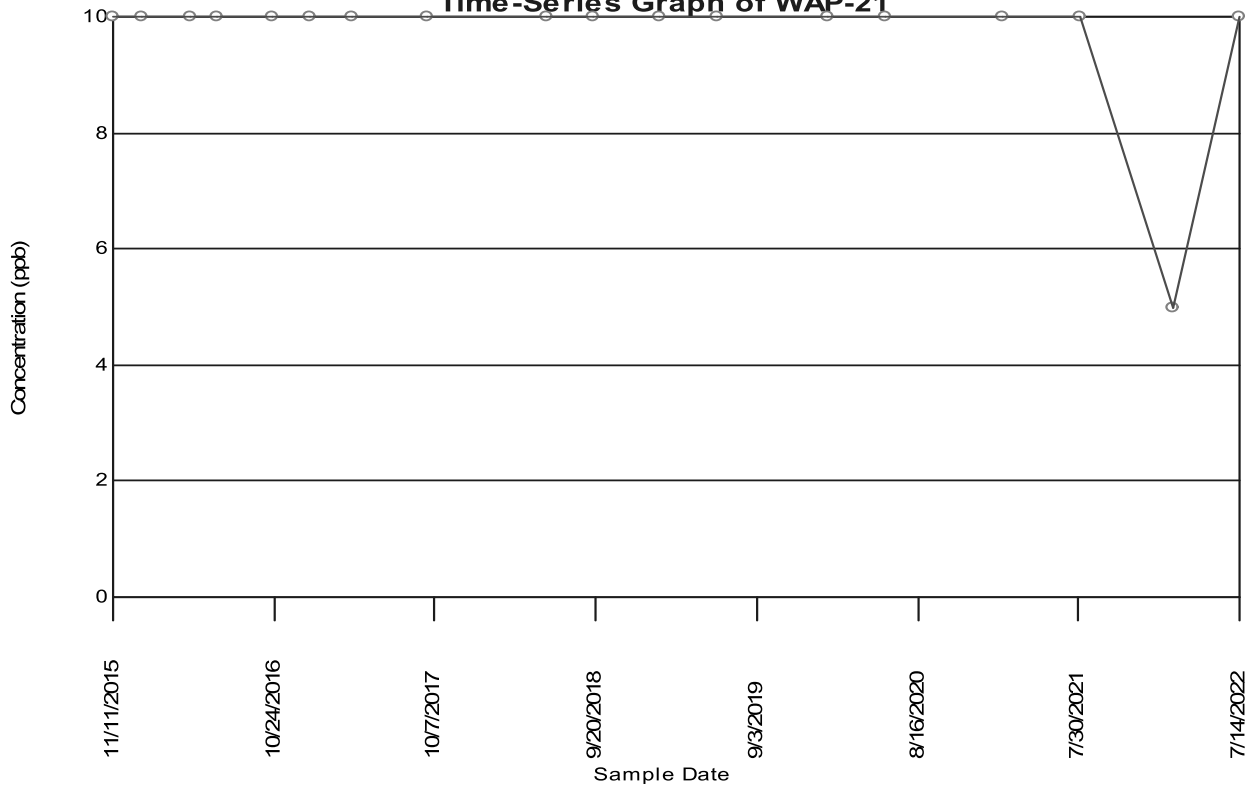
**Lithium**  
**Time-Series Graph of WAP-10**



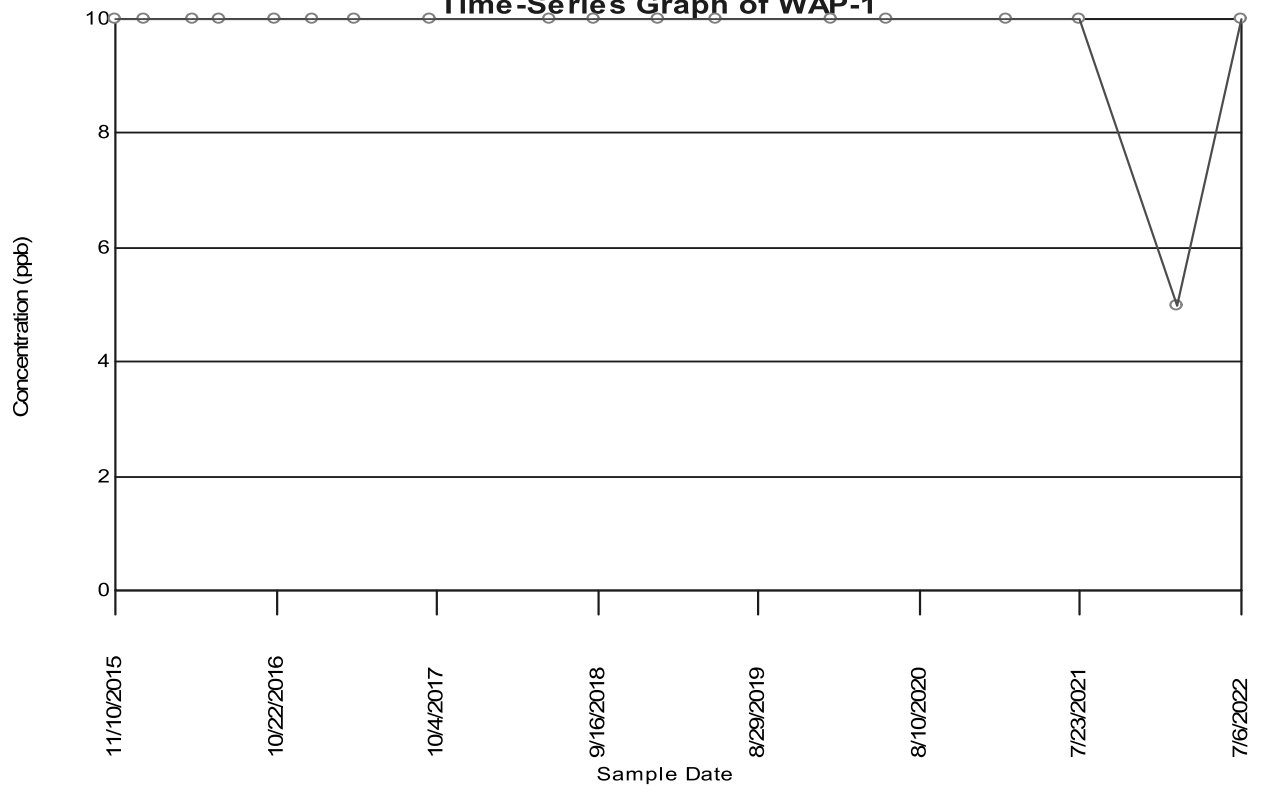
**Lithium**  
**Time-Series Graph of WAP-20**



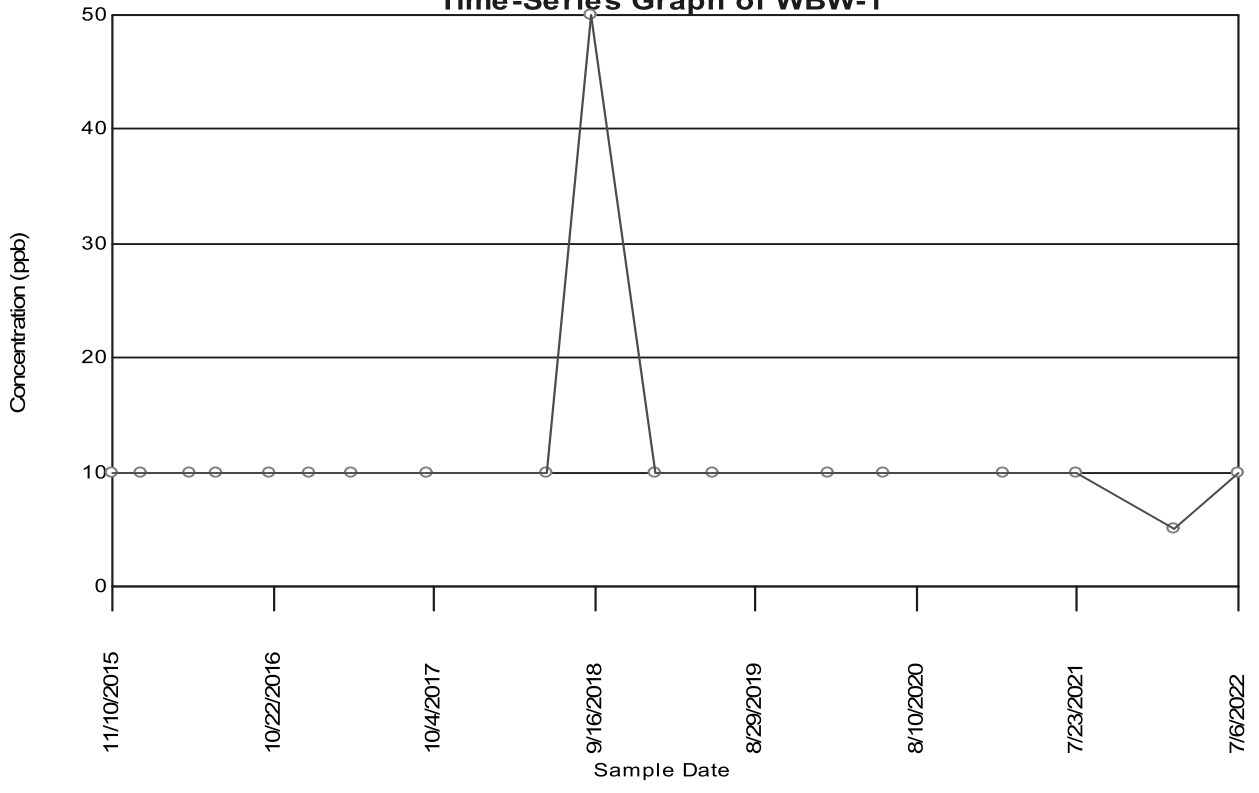
### Lithium Time-Series Graph of WAP-21



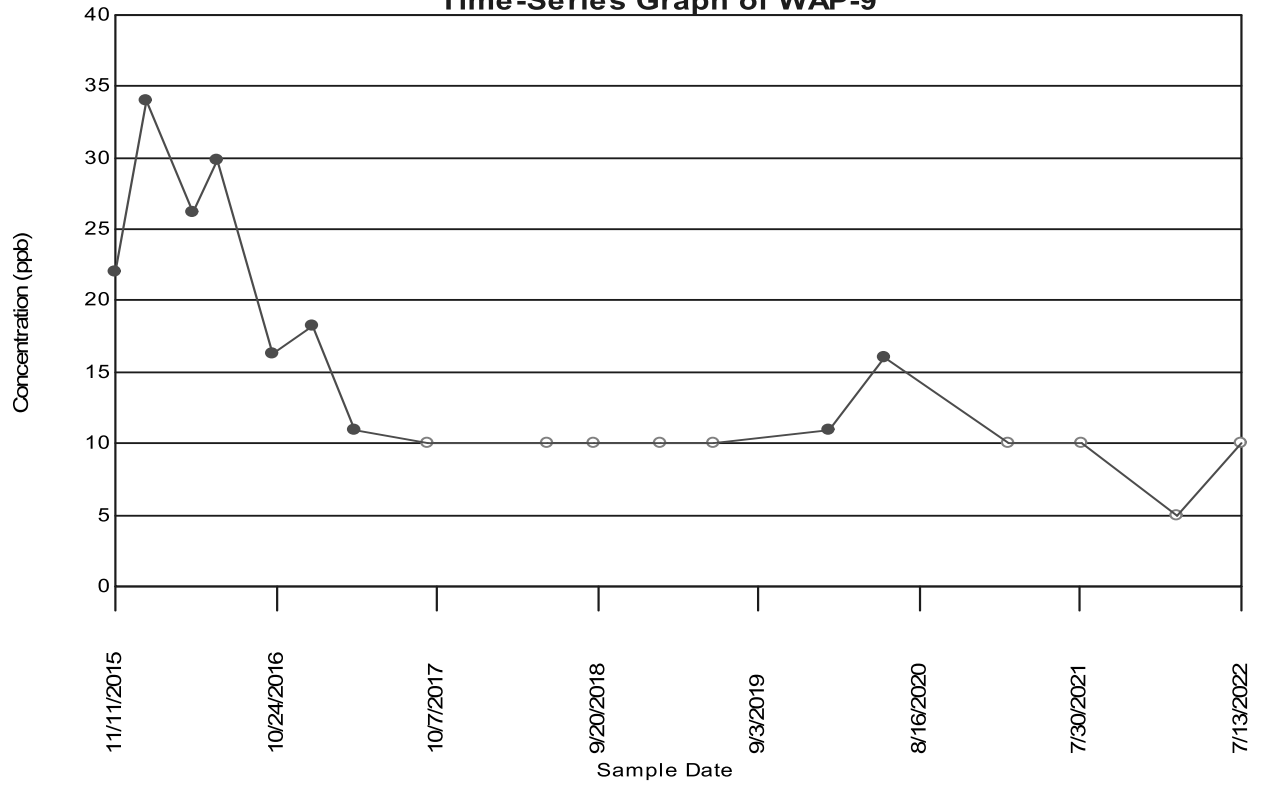
### Molybdenum Time-Series Graph of WAP-1



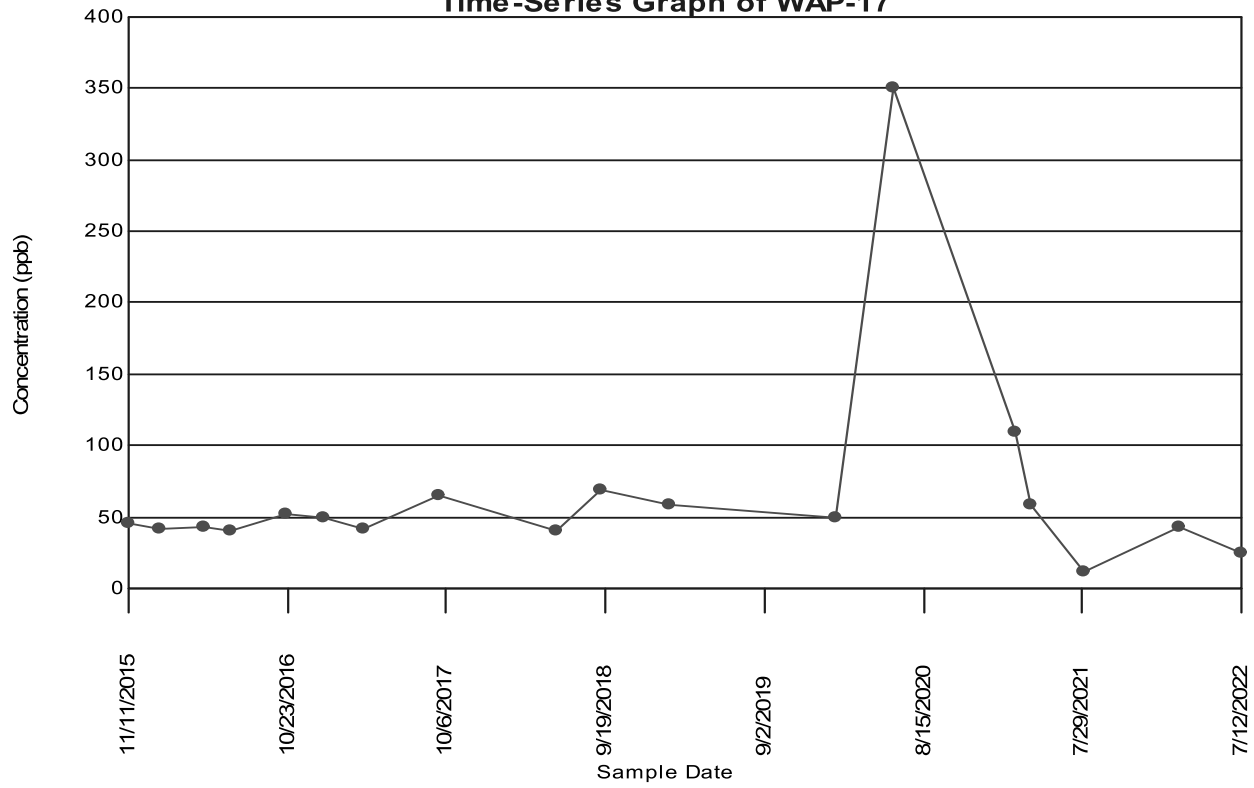
### Molybdenum Time-Series Graph of WBW-1



**Molybdenum**  
**Time-Series Graph of WAP-9**

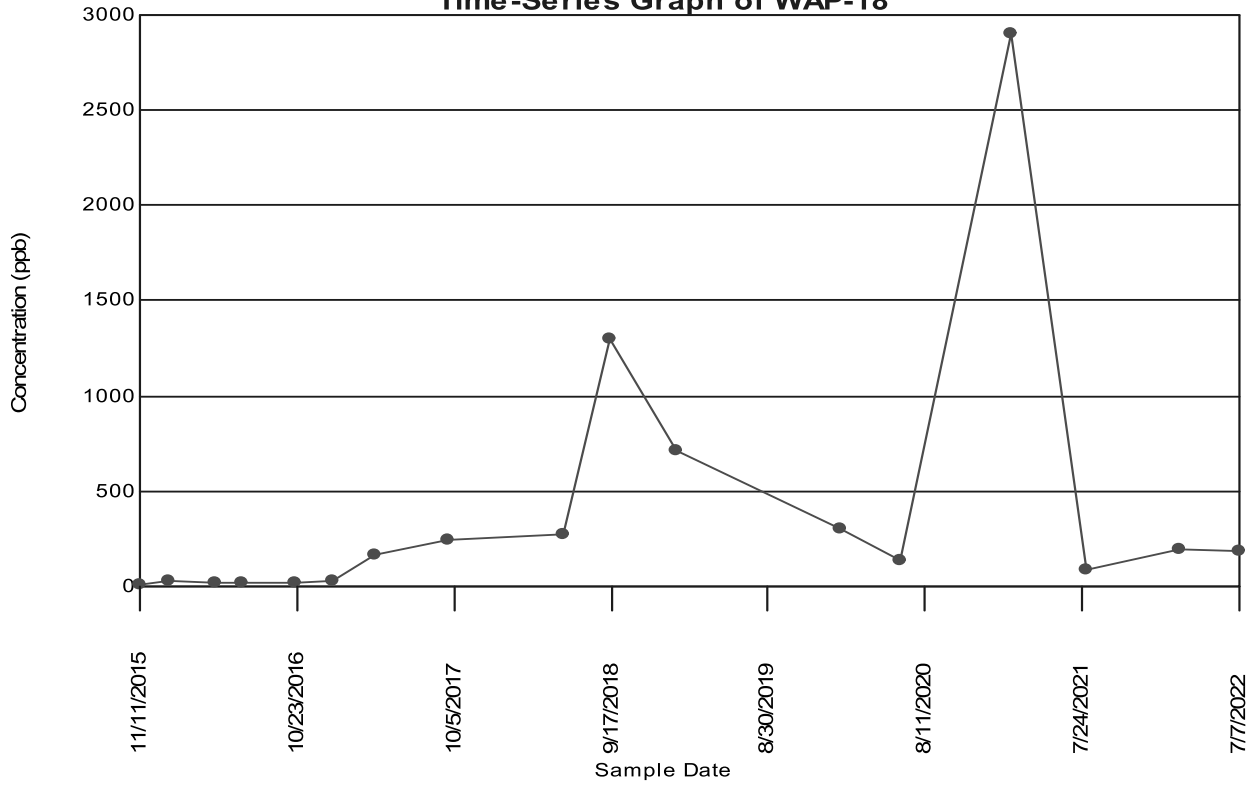


**Molybdenum**  
**Time-Series Graph of WAP-17**

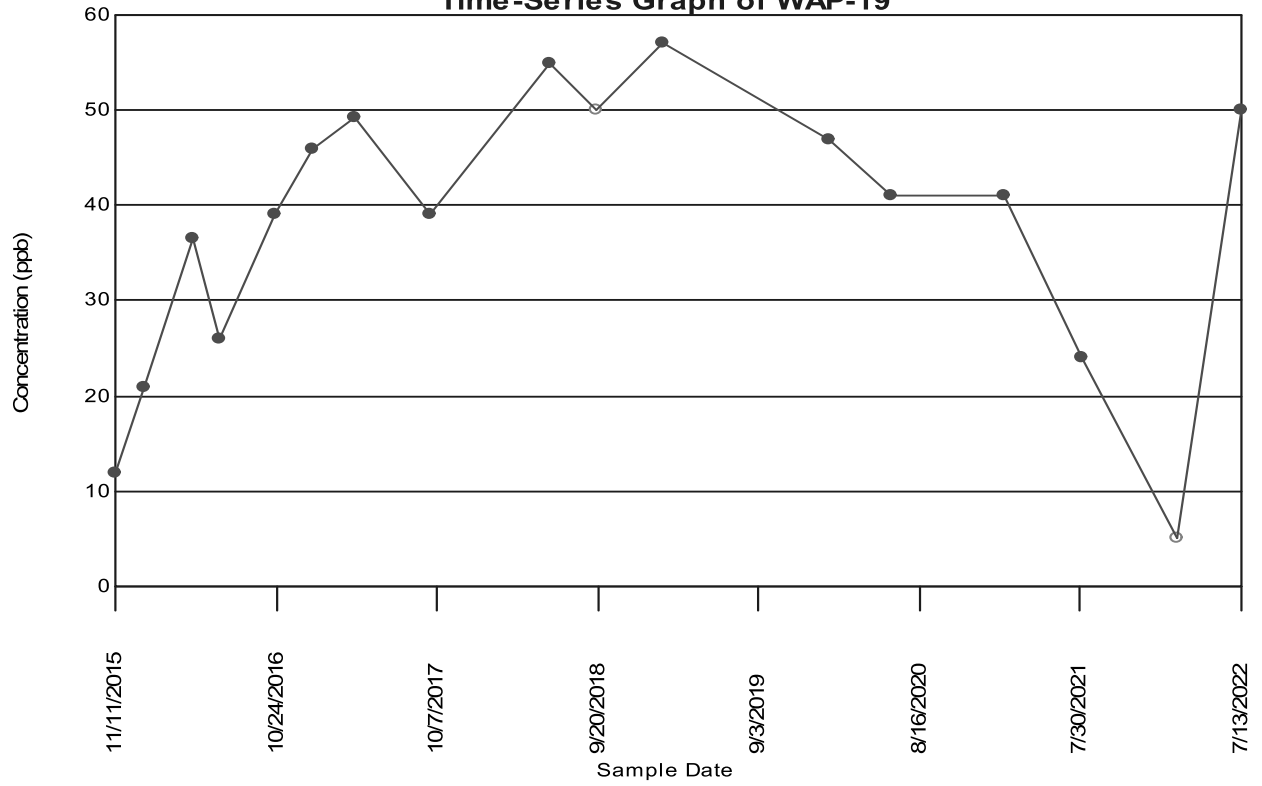




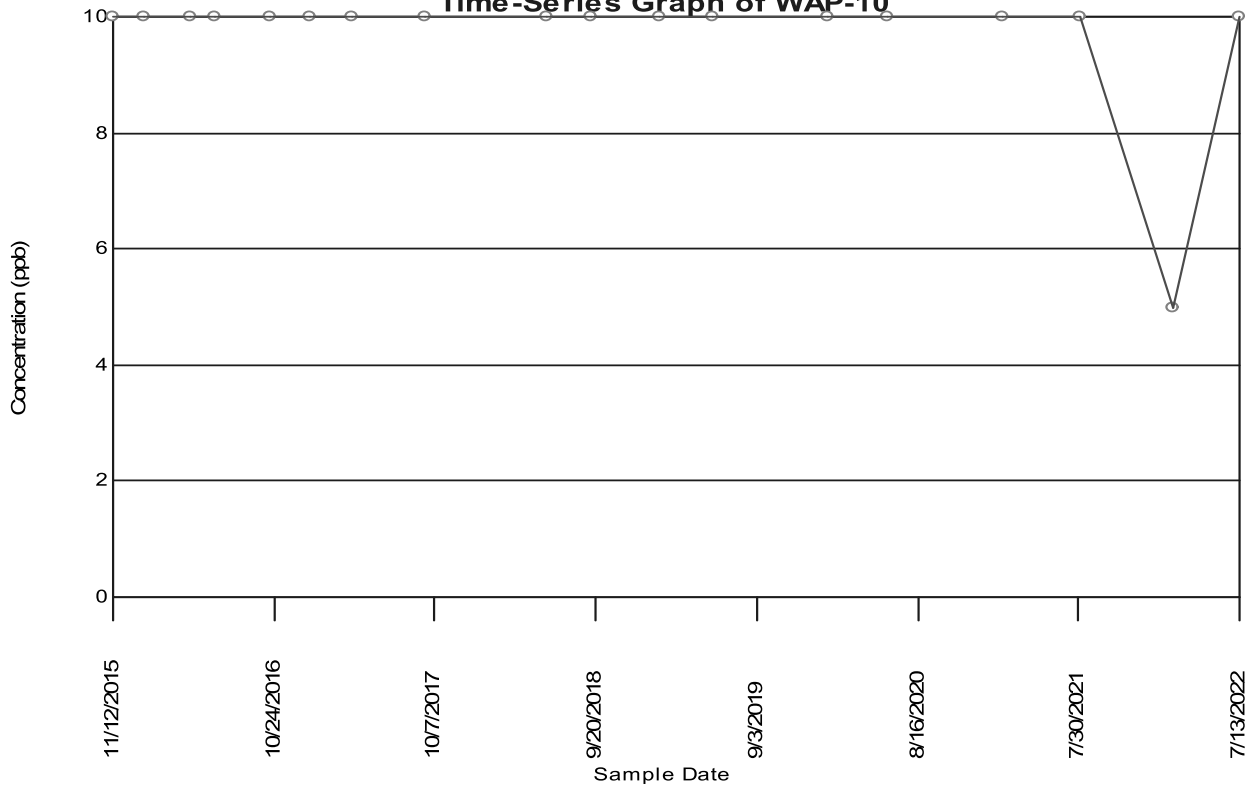
**Molybdenum**  
**Time-Series Graph of WAP-18**



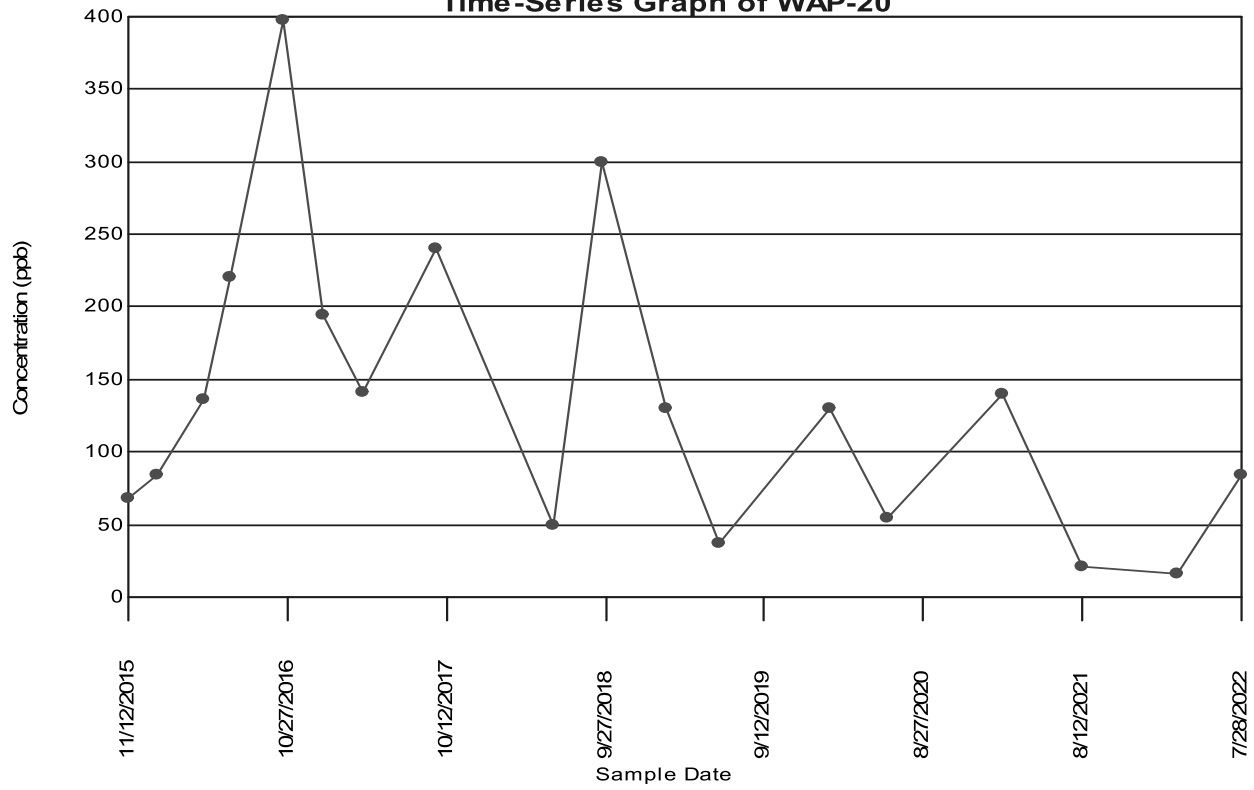
**Molybdenum**  
**Time-Series Graph of WAP-19**



### Molybdenum Time-Series Graph of WAP-10



**Molybdenum**  
**Time-Series Graph of WAP-20**



### Molybdenum Time-Series Graph of WAP-21

