

**2022 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
CLASS 3 LANDFILL AREA 1 AND
CLOSED UNIT 2 SLURRY POND
WINYAH GENERATING STATION**

**by Santee Cooper
Moncks Corner, South Carolina**

**January 31, 2023
Amended: March 2, 2023**

Table of Contents	Page
1. Annual Groundwater Monitoring Report Summary	1
2. 40 CFR §257.90 Applicability	2
2.1 40 CFR § 257.90(a) and (c)	2
2.2 40 CFR § 257.90(e) – Summary	2
2.2.1 Groundwater Monitoring and Corrective Action Program Status	3
2.2.2 Key Actions Completed	3
2.2.3 Problems Encountered	4
2.2.4 Actions to Resolve Problems	5
2.2.5 Project Key Activities for Upcoming Year	5
2.3 40 CFR § 257.90(e) – Information	5
2.3.1 40 CFR § 257.90(e)(1)	6
2.3.2 40 CFR § 257.90(e)(2)	6
2.3.3 40 CFR § 257.90(e)(3)	6
2.3.4 40 CFR § 257.90(e)(4)	6
2.3.5 40 CFR § 257.90(e)(5)	7

Table No.	Title
1	Summary of Analytical Results
2	2022 Synoptic Water Levels for Groundwater Monitoring Wells

Figure No.	Title
1	Location of Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond Groundwater Monitoring Wells for CCR Compliance
2	Potentiometric Map February 2022
3	Potentiometric Map July 2022

Appendix A – Statistical Analysis

Appendix B – Laboratory Analytical Reports

Appendix C – Alternate Source Demonstration for Class 3 Landfill Area 1 (October 2022)

1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2022 Annual Groundwater Monitoring Corrective Action Report for the closed coal combustion residuals (CCR) management unit referred to as the Closed Unit 2 Slurry Pond and the currently operational Class 3 Landfill Area 1 located at the Winyah Generating Station (WGS) in Georgetown, South Carolina. This 2022 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of CCR from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated 17 April 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

The WGS closed Unit 2 Slurry Pond and the Class 3 Landfill Area 1 are two CCR units with a shared footprint. Accordingly, this Annual Report addresses groundwater monitoring requirements for both CCR units. Of note, the Unit 2 Slurry Pond was an inactive CCR Pond as defined by 40 CFR § 257.53 prior to, and following, the effective date of the CCR Rule. Santee Cooper filed a Notice of Intent (NOI) to initiate closure of the Unit 2 Slurry Pond and placed the NOI in the facility's operating record in December 2015. The South Carolina Department of Health and Environmental Control (SCDHEC) certified closure by removal was complete in accordance with SCDHEC regulations on November 9, 2017. Afterwards, Santee Cooper constructed the Class 3 Landfill Area 1 within the footprint of the excavated and closed Unit 2 Slurry Pond. Because both units occupy the same space, the groundwater monitoring network installed to monitor the Class 3 Landfill Area 1 is also appropriate for the closed Unit 2 Slurry Pond and complies with §257.91.

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, 2022), the Class 3 Landfill Area 1 continued to operate under a detection monitoring program in accordance with § 257.94 and the closed Unit 2 Slurry Pond continued under an assessment monitoring program in accordance with § 257.95, which was initiated on December 12, 2019. As a result of successful alternate source demonstrations (ASD), Appendix III constituents were analyzed for the Class 3 Landfill Area 1 for statistically significant increases (SSIs) using an intrawell statistical test consistent with the Unified Guidance, while Appendix IV constituents were analyzed for the Closed Unit 2 Slurry Pond using an interwell statistical test to determine if statistically significant levels (SSLs) were present downgradient of the units above groundwater protection standards (GWPS).

New SSIs of boron (WAP-7), chloride (WAP-7), and fluoride (WLF-A1-3) were identified for the Class 3 Landfill Area 1 in the February/March 2022 groundwater monitoring event. SSIs for boron and chloride were identified in monitoring well WAP-7 during the July 2022 groundwater monitoring event. After the statistical evaluation for the February/March groundwater monitoring event, the initial successful ASD certified September 12, 2019, was reassessed to evaluate the possibility of additional sources that could be the cause of the SSIs at Landfill Area 1. The second successful ASD supported findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. The successful ASD was completed and placed in the operating record on October 25, 2022. Therefore, at the end of the current annual reporting period (December 31, 2022), the Class 3 Landfill Area 1 remained in detection monitoring.

For the closed Unit 2 Slurry Pond in 2022, SSLs above the GWPS were not identified in either the February/March or July 2022 groundwater monitoring events. Therefore, at the end of the current annual reporting period (December 31, 2022), the closed Unit 2 Slurry Pond remained in assessment monitoring. Because SSLs of Appendix IV constituents have not been identified, initiating and completing an assessment of corrective measures, holding a public meeting, selecting a remedy, and initiating remedial activities for either CCR Unit are not required.

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.

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.

The co-located Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond at the WGS are subject to the groundwater monitoring and corrective action requirements set forth by the EPA in the Code of Federal Regulations 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Landfill 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 existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an 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 2022 for the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond at WGS as required by the Groundwater Monitoring and Corrective Action regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and

the status of the groundwater monitoring program, set forth in § 257.94 and § 257.95, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

SSIs of Appendix III constituents (boron, calcium, chloride, pH, sulfate, and total dissolved solids) were identified in multiple downgradient wells for the groundwater monitoring system established for the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond; therefore, notification was provided, and an evaluation of alternate sources was conducted for the Class 3 Landfill Area 1. A successful ASD completed in October 2019 concluded that the excavated and closed Unit 2 Slurry Pond was responsible for the Appendix III SSIs and the Class 3 Landfill Area 1 was not the source. Notification that an assessment monitoring program was initiated for the closed Unit 2 Slurry Pond was posted on the facility's CCR website on December 12, 2019, while the Class 3 Landfill Area 1 continued in detection monitoring.

Consistent with the Unified Guidance and in response to the certified October 2019 ASD conducted for the Appendix III SSIs, the Class 3 Landfill Area 1 transitioned to using intrawell statistical analysis, which compares the most recent detection monitoring result to the background values calculated for the individual constituents in each well. The closed Unit 2 Slurry Pond continued using interwell statistical analysis which compares the most recent values from downgradient compliance wells against a background dataset for the upgradient well.

As previously noted, new SSIs of boron (WAP-7), chloride (WAP-7), and fluoride (WLF-A1-3) were identified for the Class 3 Landfill Area 1 in the February/March 2022 groundwater monitoring event. SSIs for boron and chloride were again identified in monitoring well WAP-7 during the July 2022 groundwater monitoring event. Due to laboratory delays (see discussion in Section 2.2.3 below), validated analytical results were not available until June 8, 2022 for the February/March 2022 event; therefore, statistical evaluations of the detection monitoring data and the assessment monitoring data were completed on July 27, 2022, and August 1, 2022, respectively. Because these were new SSIs associated with monitoring the Class 3 Landfill Area 1, a second ASD was conducted to evaluate the potential of Class 3 Landfill Area 1 as a contributing source to the SSIs. The second successful ASD supported findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. This successful ASD which again identified the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill Area 1's Appendix III SSIs, was completed and placed in the operating record on October 25, 2022.

Regarding the closed Unit 2 Slurry Pond, SSIs above the GWPS were not identified in either the February/ March or July 2022 groundwater monitoring events for the Assessment Monitoring Program. As a result, the Class 3 Landfill Area 1 remains in the Detection Monitoring program as required by § 257.94(e)(2) and the closed Unit 2 Slurry Pond remains in Assessment Monitoring. The statistical analyses are provided in Appendix A.

2.2.2 Key Actions Completed

The following key actions were completed in 2022:

- Prepared 2021 Annual Report including:

- The Annual Report was placed in the facility’s operating record pursuant to § 257.105(h)(1);
- 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 two rounds of groundwater monitoring (February/March and July) in accordance with § 257.94 and § 257.95 and recorded the concentrations in the facility’s operating record as required by § 257.94(f) and § 257.95(i). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B;
- Completed statistical evaluations to determine statistically significant increases for Appendix III constituents and statistically significant levels for Appendix IV constituents in accordance with § 257.93(h)(2) (Appendix A);
- Completed an alternate source demonstration for the Class 3 Landfill Area 1 SSIs in accordance with § 257.94(e)(2) (Appendix C);
- Improved the potentiometric surface characterization of the uppermost aquifer given changing site conditions 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; and
 - Although neither the closed Unit 2 Slurry Pond nor the operating Class 3 Landfill Area 1 are a source of hydraulic head or groundwater recharge, the water surface elevations of other WGS 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.

2.2.3 Problems Encountered

There were multiple laboratory issues encountered in 2022 which contributed to longer than average turnaround time to receive analytical results. Santee Cooper’s internal lab, Analytical Services, is certified by the state of South Carolina (#08552) to run most of the analyses on Appendix III and Appendix IV constituents for groundwater except for mercury and radium 226/228. However, the lab’s inductively coupled plasma – mass spectrophotometer (ICP-MS) that analyzes the Appendix IV metals was broken and irreparable at the beginning of 2022. A new ICP-MS was ordered and delivered in April 2022 but was non-operational upon delivery. For the February sampling event, the samples were held at the Analytical Services’ lab while repairs were attempted on the instrument. In the meantime, Analytical Services began to analyze the samples on the inductively coupled plasma – optical emission spectroscopy (ICP-OES) but was unable to achieve the appropriate reporting limits because it ran a different analytical method (EPA SW-846 6010D instead of 6020B). When initial repairs were unsuccessful on the ICP-MS, the samples were sent to a third-party laboratory certified by the state of South Carolina (Eurofins Savannah), approximately two months after sample collection. Eurofins

Savannah returned the analytical results approximately one month after receipt. All non-detect reporting limits were below the required GWPS for the February/March samples.

For the July sampling event, the samples were again held at the Analytical Services while ongoing repairs were attempted on the ICP-MS, which were ultimately unsuccessful. After approximately six weeks, Analytical Services sent the samples to a third-party lab that is certified by the state of South Carolina to analyze Appendix IV metals (Rogers & Callcott) because they had a quicker turnaround time than Eurofins Savannah. While Rogers & Callcott was able to analyze metals under 6010D, they also experienced technical issues with their ICP-MS and was unable to analyze metals under method 6020B. The remaining sample volumes were returned to Santee Cooper. Upon receipt, Analytical Services sent the samples to Eurofins Savannah to analyze the appropriate metals under method 6020B. Although Eurofins Savannah analyzed some metals for both the February/March and the July samples, the lab obtained different reporting limits for the two sampling events. Even though the lowest achievable reporting limits were variable, all non-detect reporting limits were below the required GWPS for the July samples.

2.2.4 Actions to Resolve Problems

Santee Cooper's new ICP-MS instrument that was never operational was returned to the vendor in November 2022. A new ICP-MS from a different vendor was purchased in November 2022. If the new instrument is not available for 2023 sampling events, then external laboratories that are able to reach required reporting limits will be utilized.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2023 include the following:

- Prepare the 2022 annual report; place it in the operating record as required by § 257.105(h)(1), notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring as required by § 257.94 and § 257.95.
- Conduct statistical analysis of the Detection Monitoring analytical data to determine if SSLs of the detected Appendix III constituents are present for the Class 3 Landfill Area 1 and verify ongoing validity of the certified October 2019 and October 2022 ASDs.
- Conduct statistical analysis of Assessment Monitoring analytical data to determine if SSLs of the detected Appendix IV constituents are present for the closed Unit 2 Slurry Pond.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
 - Increasing the sitewide synoptic water level measurements from two (2) to four (4) times per year (on a quarterly basis and in conjunction with the semi-annual groundwater monitoring events).
 - Continue collecting surface water elevations from other WGS unlined ponds, also on the same quarterly basis as the sitewide synoptic water level measurements.

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 §257.90(e)(1) AERIAL IMAGE OF GROUNDWATER MONITORING PROGRAM

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 co-located closed Unit 2 Slurry Pond and the Class 3 Landfill Area 1 and associated upgradient and downgradient monitoring wells is included in this report as Figure 1. The groundwater monitoring network meets the requirements of §257.91 for both units.

2.3.2 §257.90(e)(2) ADJUSTMENTS TO GROUNDWATER MONITORING PROGRAM

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;

Monitoring wells were neither installed nor decommissioned during 2022.

2.3.3 §257.90(e)(3) SUMMARY OF GROUNDWATER ANALYSIS

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 [upgradient] and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

Two independent samples from each background and downgradient monitoring well were collected and analyzed to satisfy the detection monitoring requirements for the Class 3 Landfill Area 1 and the assessment monitoring requirements for the closed Unit 2 Slurry Pond. A summary table including the sample names, dates of sample collection, reason for sample collection (detection or assessment), and monitoring data obtained for the groundwater monitoring program for the closed Unit 2 Slurry Pond and Class 3 Landfill Area 1 is presented in Table 1 of this report. In addition, as required by § 257.95(d)(3), Table 1 includes the groundwater protection standards established under § 257.95(d)(2). Laboratory analytical packages, along with field sampling forms, are provided in Appendix B.

2.3.4 §257.90(e)(4) CURRENT GROUNDWATER MONITORING PROGRAM

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);

As required by §257.93(h), Haley & Aldrich performed a statistical analysis of the Appendix III and IV constituents detected in groundwater downgradient of the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond to evaluate the potential for SSIs and SSLs, respectively. A summary of the statistical evaluation is provided in Appendix A of this report. As in previous years, SSLs of

Appendix IV constituents in the Assessment Monitoring Program for the closed Unit 2 Slurry Pond were not identified in either of the 2022 monitoring events.

As noted earlier in this Annual Report, new SSIs of boron (WAP-7), chloride (WAP-7), and fluoride (WLF-A1-3) were identified for the Class 3 Landfill Area 1 in the February/March 2022 groundwater monitoring event. Due to laboratory delays, validated analytical results were not available until June 8, 2022. A statistical evaluation of the detection monitoring data was completed on July 27, 2022. A successful ASD was completed and placed in the operating record on October 25, 2022 (see Appendix C). This October 2022 ASD continued to identify the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill's Appendix III SSIs. As a result, the Class 3 Landfill Area 1 remained in detection monitoring while the closed Unit 2 Slurry Pond remained in assessment monitoring.

2.3.5 §257.90(e)(5) OTHER REQUIRED INFORMATION

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.

The potentiometric surface characterization of the uppermost aquifer was improved by collecting site-wide synoptic water levels. Additionally, the groundwater elevation measurement procedure was revised 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. Additionally, the water surface elevations of nearby unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events as they 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. During 2023, synoptic groundwater elevation measurements will be collected on a quarterly basis to gain a better understanding of changes in groundwater elevations temporally given site changes induced by closure by removal activities. Groundwater flow rate and direction are provided as Figures 2 and 3 for each sampling event as specified in § 257.93(c).

TABLES

Table 2
Winyah Generating Station
2022 Synoptic Water Levels for Groundwater Monitoring Wells

Well Name	1st Event				2nd Event			
	Collection Date	Depth to Groundwater (ft btoc) ²	Top of Casing Elevation (ft msl) ²	GW Elevation (ft msl) ²	Collection Date	Depth to Groundwater (ft btoc) ²	Top of Casing Elevation (ft msl) ²	GW Elevation (ft msl) ²
WBW-1	2/15/2022	10.42	31.97	21.55	7/5/2022	10.03	31.97	21.94
PZ-1 ³	-	-	-	-	7/5/2022	9.38	31.25	21.87
WAP-1	2/15/2022	6.79	29.44	22.65	7/5/2022	7.62	29.44	21.82
WAP-2	2/16/2022	8.89	23.69	14.80	7/5/2022	10.04	23.69	13.65
WAP-3	2/16/2022	6.91	19.43	12.52	7/5/2022	8.00	19.43	11.43
WAP-4	2/16/2022	7.14	20.34	13.20	7/5/2022	8.29	20.34	12.05
WAP-5 ¹	2/16/2022	8.62	26.25	17.63	7/5/2022	9.83	26.25	16.42
WAP-6 ¹	2/15/2022	8.57	30.98	22.41	7/5/2022	8.99	30.98	21.99
WAP-7	2/15/2022	9.52	29.94	20.42	7/5/2022	10.22	29.94	19.72
WAP-8 ¹	2/15/2022	10.42	30.38	19.96	7/5/2022	11.34	30.38	19.04
WAP-9	2/16/2022	9.96	28.04	18.08	7/5/2022	10.16	28.04	17.88
WAP-10	2/16/2022	5.20	26.11	20.91	7/5/2022	6.16	26.11	19.95
WAP-11 ¹	2/16/2022	4.93	9.55	4.62	7/5/2022	5.65	9.55	3.90
WAP-12	2/16/2022	9.21	30.84	21.63	7/5/2022	9.77	30.84	21.07
WAP-13	2/16/2022	6.63	21.97	15.34	7/5/2022	7.06	21.97	14.91
WAP-14	2/16/2022	4.38	14.69	10.31	7/5/2022	5.03	14.69	9.66
WAP-14A	2/16/2022	3.05	13.95	10.90	7/5/2022	4.00	13.95	9.95
WAP-14B	2/16/2022	5.09	9.23	4.14	7/5/2022	5.71	9.23	3.52
WAP-14C	2/16/2022	9.59	13.88	4.29	7/5/2022	10.93	13.88	2.95
WAP-15	2/16/2022	6.78	20.41	13.63	7/5/2022	7.85	20.41	12.56
WAP-16	2/16/2022	7.88	25.08	17.20	7/5/2022	9.77	25.08	15.31
WAP-17	2/16/2022	6.27	26.88	20.61	7/5/2022	7.00	26.88	19.88
WAP-18	2/15/2022	10.78	31.04	20.26	7/5/2022	11.04	31.04	20.00
WAP-19	2/15/2022	24.24	43.39	19.15	7/5/2022	22.37	43.39	21.02
WAP-20	2/15/2022	21.93	43.08	21.15	7/5/2022	22.30	43.08	20.78
WAP-21	2/15/2022	22.44	43.06	20.62	7/5/2022	23.16	43.06	19.90
WAP-22	2/15/2022	10.33	30.48	20.15	7/5/2022	10.51	30.48	19.97
WAP-23	2/15/2022	22.32	43.23	20.91	7/5/2022	23.37	43.23	19.86
WAP-24	2/16/2022	7.67	28.77	21.10	7/5/2022	9.13	28.77	19.64
WAP-25	2/15/2022	8.06	27.10	19.04	7/5/2022	8.84	27.10	18.26
WAP-26	2/15/2022	8.60	27.56	18.96	7/5/2022	9.32	27.56	18.24
WBW-A1-1	2/15/2022	6.24	28.14	21.90	7/5/2022	8.69	28.14	19.45
WLF-A1-1	2/15/2022	17.92	41.35	23.43	7/5/2022	18.25	41.35	23.10
WLF-A1-2	2/15/2022	6.77	29.21	22.44	7/5/2022	7.01	29.21	22.20
WLF-A1-3	2/15/2022	6.35	28.31	21.96	7/5/2022	6.99	28.31	21.32
WLF-A1-4	2/15/2022	6.25	28.24	21.99	7/5/2022	6.70	28.24	21.54
WLF-A1-5	2/15/2022	16.29	37.64	21.35	7/5/2022	16.44	37.64	21.20
WLF-A2-1	2/15/2022	11.84	30.04	18.20	7/5/2022	9.41	30.04	20.63
WLF-A2-2	2/15/2022	7.76	27.56	19.80	7/5/2022	7.28	27.56	20.28
WLF-A2-6	2/15/2022	14.41	35.14	20.73	7/5/2022	15.26	35.14	19.88
PSE-1 ⁴	3/3/2022	-	-	20.11	7/6/2022	-	-	21.43
PSE-3 ⁴	3/3/2022	-	-	18.03	7/6/2022	-	-	17.93
PSE-5 ⁴	3/3/2022	-	-	21.06	7/6/2022	-	-	19.27






Notes:

1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations 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. Was not sampled during the 1st event.
4. Pond surface elevations (PSE) were collected to aid in the potentiometric surface interpretation.

FIGURES

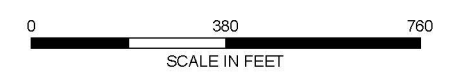


LEGEND

-  CLASS 3 LANDFILL AREA 1 BACKGROUND WELL
-  UNIT 2 SLURRY POND/CLASS 3 LANDFILL AREA 1 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 1 &
 CLOSED UNIT 2 SLURRY POND
 GROUNDWATER MONITORING WELLS
 FOR CCR COMPLIANCE**

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_12132892_008_00MB_WINYAH_POTENTIOMETRIC_MAPS.mxd — USER: khaskins — LAST SAVED: 1/21/2022 4:23:05 PM



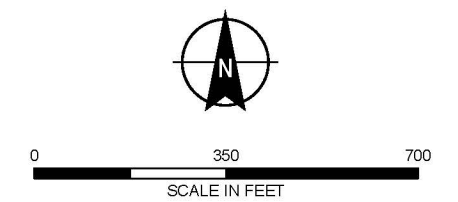
LEGEND

- BACKGROUND WELL
- 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:

$$v = \frac{K \Delta h}{n_e \Delta L}$$
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 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 ON FEBRUARY 15, 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 0.01 FT/DAY.
9. AERIAL IMAGERY SOURCE: ESRI



HALEY ALDRICH

SANTEE COOPER
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 FEBRUARY 15-16 2022**

DECEMBER 2022

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_121122892_008_00MB_WINYAH_POTENTIOMETRIC_MAPS.mxd — USER: khastings — LAST SAVED: 12/12/2022 4:23:05 PM



LEGEND

- BACKGROUND WELL
- 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:

$$v = \frac{K \Delta h}{n_e \Delta L}$$
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 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 5 THROUGH JULY 6, 2022
7. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.02 FT/DAY.
8. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER
 WNYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 JULY 5-6, 2022**

DECEMBER 2022

FIGURE 2

COOLING WATER POND
 ~20.0 FT

Appendix A – Statistical Analysis



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

TECHNICAL MEMORANDUM

July 27, 2022
File No. 132892-014

SUBJECT: Statistical Evaluation of the February-March 2022 Semiannual Groundwater Detection Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 1

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 to March 2022 semiannual detection monitoring event for the Class 3 Landfill Area 1 at the Winyah Generating Station (WGS). Data for this groundwater sampling event were validated on June 8, 2022 by Santee Cooper.

BACKGROUND

After completion of baseline sampling, the initial statistical analysis identified statistically significant increases (SSIs) for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. Recognizing the Unit 2 Slurry Pond was in the footprint of the Class 3 Landfill Area 1 and had been closed by removal of coal combustion residuals (CCR), an alternate source demonstration (ASD) was completed in September 2019. The ASD concluded the closed Unit 2 Slurry Pond is the source for the Appendix III SSIs and as a result, the Class 3 Landfill Area 1 remained in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4); SC regulations R.61-107.19 Part V, Subpart E, Section 258.53.g) represents an SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

To statistically evaluate the analytical results, the upper prediction background limit (UPL), which is a type of prediction interval method, was selected to evaluate the data. The prediction interval method is one of the methods outlined in the Rule and South Carolina state regulations. A prediction interval procedure is where a concentration limit for each constituent 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 or UPL. Depending on the background data distribution, parametric or non-parametric prediction limits procedures are used to evaluate

groundwater monitoring data using this method. Parametric prediction limits utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit.

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 upper prediction limit. We note that depending on the available sample size, UPLs generated from non-parametric or maximum reporting limits may not achieve the same target statistical confidence limits of the parametric UPLs. In the case of the Class 3 Landfill Area 1, the statistical analysis was conducted using both parametric and non-parametric prediction limits.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009*, background concentrations were updated for the February 2020 semiannual sampling event based on statistical evaluation of analytical results collected through February 2020. The background dataset will be updated again after the 2023 first semiannual sampling event, in accordance with the Unified Guidance.

RESULTS OF DETECTION MONITORING DOWNGRAIDENT STATISTICAL COMPARISONS

The current analytical result for each constituent at each monitoring well was compared to the background value of that constituent to determine whether an SSI has occurred. Table I presents the statistical analysis summary for the February to March 2022 sampling event. As presented in Table I, SSIs of Appendix III constituents were not identified during the February to March 2022 sampling event, except for boron and chloride at WAP-07 and fluoride at WLF-A1-3.

The statistical evaluation identified SSIs for boron and chloride at WAP-07 using an intrawell analysis, even though the concentrations fell within the historical range of concentrations for monitoring well locations for this unit (prior to receiving CCR in the Class 3 Landfill Area 1). These March 2022 concentrations were flagged as outliers but were not removed from the dataset. The Mann-Kendall trend analysis completed as part of the statistical evaluation shows that both boron and chloride are stable at this location; therefore, no upward trends are observed and the Mann-Kendall analysis supports the findings of the September 2019 ASD.

Additionally, the statistical evaluation of the March 2022 sampling event identified an SSI for fluoride at monitoring well WLF-A1-3 with an intrawell confidence level of 77.8% (false positive rate of 22.2%) and an interwell uncertainty of 63.6% (false positive rate of 36.4%). Importantly, the detected concentration for fluoride at WLF-A1-3 at 1.5 milligrams per liter (mg/L) is below the maximum contaminant limit (MCL) of 4 mg/L but above the UPL of 0.10 mg/L (based on 14 sampling events).

While fluoride has been detected at similar concentrations at other monitoring locations in the Class 3 Landfill Area 1, this was the first-time fluoride had been detected at WLF-A1-3. The previous sampling results were non-detect and as a result, the February to March 2022 sampling result was flagged as an outlier but was not removed from the dataset. Due to the timing of receipt of validated data, a confirmation sample was not collected. However, fluoride for WLF-A1-3's July 2022 sampling event was non-detect (<0.10 parts per million [ppm]). According to the certified laboratory, the March 2022

sample had higher turbidity and total dissolved solids (TDS) than the July 2022 sample, which could contribute to the variability in the results.

The low confidence levels and other factors noted above for boron, chloride, and fluoride suggest uncertainty in the analytical results and corresponding statistical evaluations. Additional analytical data and evaluations are required to determine if the SSIs are the result of error of sampling, analysis, statistical evaluation, or natural variation in groundwater quality. If additional data and evaluations support an ASD for the boron, chloride, and fluoride SSIs, a written determination should be completed within 90 days from the date of this technical memorandum to remain in detection monitoring per §257.94(e)(2).

Groundwater concentration and trends will continue to be monitored in future sampling and the Class III Landfill Area 1 will remain in detection monitoring in 2022, assuming successful completion of the ASD.

Attachment:

Table I – Detection Monitoring Statistical Analysis Summary – February 2022 Groundwater Monitoring Event

\\haleyaldrich.com\share\grn_common\131539 - Santee Cooper\Winyah Generating Station\Statistical Analysis\2022-01\Class 3 LF Area 1\2022-0727_HAI_WGS_Class III LF A1 Detection Monitoring Stats_F.docx

TABLES

Table 1
Winyah Class III Landfill Area 1
Detection Monitoring Statistical Analysis Summary
February 2022 Groundwater Monitoring Event

Table with 23 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/RSL, 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 (mg/L), Detect?*, Inter-well Analysis (Upper Prediction Limit, Exceedance above Background at Individual Well), Intra-well Analysis (Background Limit Upper Prediction, SSI). Rows are grouped by CCR Appendix-III: Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids (TDS).



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

TECHNICAL MEMORANDUM

December 30, 2022
File No. 132892-014

SUBJECT: Statistical Evaluation of the Summer 2022 Semiannual Groundwater Detection Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 1

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 summer 2022 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 1. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

BACKGROUND

After completion of baseline sampling, the initial statistical analysis identified statistically significant increases (SSIs) for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. During the previous groundwater sampling event, boron, chloride, and fluoride were the only Appendix III constituents detected as SSIs. Recognizing the Unit 2 Slurry Pond was located in the footprint of the Class 3 Landfill Area 1 and had been closed by removal of coal combustion residuals (CCR) pursuant to state regulatory and permit requirements, alternate source demonstrations (ASDs) were completed in September 2019 and again in October 2022. The September 2019 ASD concluded the closed Unit 2 Slurry Pond was the alternate source of the Appendix III constituents which had SSIs at that time. The October 2022 ASD again concluded that the Unit 2 Slurry Pond was the source for the Appendix III SSIs, and accordingly, the Class 3 Landfill Area 1 was not the source of the fluoride, boron, and chloride SSIs. As a result of the successful ASDs, the Class 3 Landfill Area 1 remains in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

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 intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

To statistically evaluate the analytical results, the background upper prediction limit (UPL), which is a type of prediction interval method, was selected to evaluate the data. The prediction interval method is one of the methods outlined in the Rule. A prediction interval procedure is where a concentration limit for each constituent 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 UPL. Depending on the background data distribution, parametric or non-parametric prediction limits

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. We note that depending on the available sample size, UPLs generated from non-parametric or maximum reporting limits may not achieve the same target statistical confidence limits of the parametric UPLs. In the case of the Class 3 Landfill Area 1, the statistical analysis was conducted using both parametric and non-parametric prediction limits.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were updated for the February 2020 semiannual sampling event based on statistical evaluation of analytical results collected through February 2020. The background dataset will be updated again after the 2023 first semiannual sampling event, in accordance with the Unified Guidance.

RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

Analytical results for each Appendix III constituent were compared to the background value of that constituent to determine whether a SSI has occurred (Table 1). A sample concentration greater than the UPL (or less than Lower Protection Limit [LPL] for pH) would indicate a SSI over background. Based on these comparisons, two SSIs are detected using intrawell analysis for this event:

- Chloride SSI at WAP-07
- Boron SSI at WAP-07

The groundwater concentrations for chloride and boron are within the historical range of concentrations for monitoring well locations for this unit (prior to receiving CCR in the Class 3 Landfill Area 1) and consistent with the findings of the 2022 ASD. The Mann-Kendall trend analysis completed as part of the statistical evaluation shows that both boron and chloride are stable at this location, which supports the findings of the September 2019 and October 2022 ASDs.

Groundwater concentration and trends will continue to undergo detection monitoring in 2023.

Enclosures:

Table I – WGS Class 3 Landfill Area 1 Summer 2022 Semiannual Groundwater Detection Monitoring Data

\\haleyaldrich.com\share\grn_common\131539 - Santee Cooper\Winyah Generating Station\Statistical Analysis\2022-07\Class 3 Landfill Area 1\2022-1230_HAI_WGS_Class III LF A1_Detection Monitoring Stats_F.docx

TABLE



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

TECHNICAL MEMORANDUM

August 1, 2022
File No. 132892-014

SUBJECT: Statistical Evaluation of the March 2022 Semiannual Groundwater Assessment Monitoring Data, Winyah Generating Station, Closed Unit 2 Slurry Pond

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 2022 semiannual assessment monitoring event for the Closed Unit 2 Slurry Pond at the Winyah Generating Station (WGS). Data for this groundwater sampling event were validated on June 7, 2022 by Santee Cooper.

BACKGROUND

The results of analytical testing performed on samples collected from the groundwater monitoring network were evaluated to determine whether there are statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS) of Appendix IV groundwater monitoring constituents.

Using interwell evaluations, data from the semiannual groundwater sampling event for the downgradient monitoring wells were compared to the GWPS established from the background dataset for the upgradient monitoring wells WAP-1 and WBW-1. The results of the groundwater assessment monitoring statistical evaluation are discussed below and provided in Table I.

STATISTICAL EVALUATION

The Rule provides four specific options for statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4); SC regulations R.61-107.19 Part V, Subpart E, Section 258.53.g) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL). This statistical method was certified by Haley & Aldrich, Inc. on October 14, 2017.

An interwell 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 TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. The most recent groundwater sampling event from each compliance well was compared to the corresponding GWPS to determine if an SSL existed. The results of the statistical are presented in the Table I.

The TL methods were used to complete statistical evaluations of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. 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 TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

These statistical evaluations were conducted using the background dataset for all detected Appendix IV constituents using the TL. If an Appendix IV constituent concentration from the semiannual sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate if an SSL was present. The LCL is the lower end of the confident interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat 6.3.0.0 software after testing for outlier sample results that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using distribution plots for the downgradient sample data. 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-1 and WBW-1) were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. The background dataset will be updated again after the 2023 second semiannual sampling event, in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance).

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the March 2022 semiannual assessment monitoring event were compared to their respective GWPS (Table I). A sample concentration greater than the GWPS is considered to represent an SSL. Based on the results from previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for the downgradient wells and constituents. Consistent with previous statistical evaluations, SSLs above GWPS were not identified, and as a result the Closed Unit 2 Slurry Pond will remain in assessment monitoring.

Tables: Table I – Summary of Assessment Monitoring Statistical Evaluation – March 2022

TABLES

TABLE I
SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION
MARCH 2022 MONITORING EVENT
WINYAH GENERATING STATION
CLOSED UNIT 2 SLURRY POND

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/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	Inter-well Analysis				GWPS (Higher of MCL/RSL or Upper Tolerance Limit) mg/L	SSL	
																				March 2022 Concentration (mg/L)	Detect?	Upper Tolerance Limit (mg/L)	SSI			
CCR Appendix-IV: Thallium, Total (mg/L)																										
WBW-A1-1	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N	0.002	
WAP-07	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N		No
WLF-A1-1	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N		No
WLF-A1-2	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N		No
WLF-A1-3	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N		No
WLF-A1-4	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N		No
WLF-A1-5	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001	N	N		No



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

TECHNICAL MEMORANDUM

December 30, 2022
File No. 132892-014

SUBJECT: Statistical Evaluation of the Summer 2022 Semiannual Groundwater Assessment Monitoring Data, Winyah Generating Station, Closed Unit 2 Slurry Pond

Pursuant to Title 40 Code of Federal Regulations 40 CFR §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the summer 2022 semiannual assessment monitoring event for Winyah Generating Station (WGS) Closed Unit 2 Slurry Pond. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

BACKGROUND

Recent analytical testing results were evaluated to determine if statistically significant levels (SSLs) exist above Groundwater Protection Standards (GWPS) of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background wells. There were no SSLs identified during the last sampling event.

STATISTICAL EVALUATION

The Rule in 40 CFR §257.93 (f) (1-4) provides four specific options for statistically evaluating whether water quality downgradient of the CCR unit represents a SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL). A tolerance interval is a concentration range, with a specified confidence level, designed to contain a pre-specified proportion of the underlying population from which the statistical sample is drawn. This statistical method was re-certified by Haley & Aldrich, Inc. on January 24, 2020.

An interwell 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 TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if a SSL existed. Statistical analysis results are presented in Table I.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the assumed distribution

of background, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to development the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

If an Appendix IV constituent concentration from the event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate the presence of a SSL. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence.

After testing for outliers, the UTLs 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.¹ 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-1 and WBW-1) were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. The background dataset will be updated again after the 2023 second semiannual sampling event, in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance).

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table I). Based on the results from previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for the downgradient wells and constituents. Consistent with previous statistical evaluations, SSLs above GWPS were not identified, and as a result, the Closed Unit 2 Slurry Pond will remain in assessment monitoring.

Enclosures:

Table I – WGS Unit 2 Slurry Pond Summer 2022 Semiannual Assessment Monitoring Data

\\haleyaldrich.com\share\grn_common\131539 - Santee Cooper\Winyah Generating Station\Statistical Analysis\2022-07\Unit 2 Slurry Pond\2022-1230_HAI_WGS_Closed Unit 2 Slurry Pond_Assessment Monitoring Stats_F.docx

¹ 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.

TABLE

Appendix B – Laboratory Analytical Reports



One Riverwood Drive
P.O. Box 2946101
Moncks Corner, SC 29461-2901
(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27222 Location: WGS well WBW A1 Date: 02/16/2022 Sample Collector: BRT/BSB
Loc. Code WBW-A1-1 Time: 13:46

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	73.3	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	39.0	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Iron	3910	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	17.1	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	14.8	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	25.00	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	12.6	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	126	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	0.760	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.01	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined	2.77	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
Calculation					
pH	4.67	SU	02/16/2022	BRT/BSB	

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

Sample Validated:

Final Validation Date: 06/07/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27193 **Location:** GW Well WAP-7 **Date:** 02/17/2022 **Sample Collector:** BRT/BSB
Loc. Code WAP-7 **Time:** 10:05

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	3.3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	34.6	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	514	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.70	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	2370	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	1942	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	97.3	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	957	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	1.39	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	3.55	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.94	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.44	SU	02/17/2022	BRT/BSB	

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: 

Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27223 **Location:** WGS well WLF A1-1 **Date:** 03/03/2022 **Sample Collector:** BRT/BSB
Loc. Code WLF-A1-1 **Time:** 11:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	34.9	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	335	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Iron	4760	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	1540	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	1374	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	83.0	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	576	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.810	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	2.66	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined	3.47	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
Calculation					
pH	6.45	SU	03/03/2022	BRT/BSB	

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

Sample Validated: 

Final Validation Date: 06/08/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27224 **Location:** WGS well WLF A1-2 **Date:** 03/02/2022 **Sample Collector:** BRT/BSB
Loc. Code WLF-A1-2 **Time:** 13:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	54.7	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	90.7	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Iron	765	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	1420	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	493.8	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	92.1	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	149	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	1.35	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	1.79	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined	3.13	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
Calculation					
pH	5.52	SU	03/03/2022	BRT/BSB	

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

Sample Validated: 

Final Validation Date: 06/08/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27225 **Location:** WGS well WLF A1-3 **Date:** 03/02/2022 **Sample Collector:** BRT/BSB
Loc. Code WLF-A1-3 **Time:** 12:31

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	3.15	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	25.4	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	18.5	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.43	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Iron	633	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	278	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	131.2	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	0.15	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	4.48	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	75.9	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.919	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	3.75	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined	4.67	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
Calculation					
pH	4.40	SU	03/03/2022	BRT/BSB	

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

Sample Validated: 
 Linda Williams - Supervisor, Analytical Services

Final Validation Date: 06/08/2022

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27226 **Location:** WGS well WLF A1-4 **Date:** 03/02/2022 **Sample Collector:** BRT/BSB
Loc. Code WLF-A1-4 **Time:** 11:20

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	30.4	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	76.8	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Iron	963	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	244	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	308.8	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	7.55	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	73.9	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.355	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	2.46	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined	2.81	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
Calculation					
pH	6.28	SU	03/02/2022	BRT/BSB	

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

Sample Validated: 

Final Validation Date: 06/08/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27227 **Location:** WGS well WLF A1-4 **Date:** 03/02/2022 **Sample Collector:** BRT/BSB
Loc. Code WLF-A1-4 Duplicate **Time:** 11:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	31.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	79.0	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Iron	1200	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	245	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	303.8	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	7.62	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	75.1	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.496	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	2.10	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.59	pCi/L	03/31/2022	GEL	EPA 903.1 Mod

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

Sample Validated: 

Final Validation Date: 06/08/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF27228 **Location:** WGS well WLF A1-5 **Date:** 03/03/2022 **Sample Collector:** BRT/BSB
Loc. Code WLF-A1-5 **Time:** 13:06

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	34.1	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	252	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Iron	1570	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	1930	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	1235	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	159	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	512	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.780	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	0.670	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined	1.45	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
Calculation					
pH	7.02	SU	03/03/2022	BRT/BSB	

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

Sample Validated:  Final Validation Date: 06/08/2022
Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38191 **Location:** WGS well WBW A1 **Date:** 07/12/2022 **Sample Collector:** DEW/BM
Loc. Code WBW-A1-1 **Time:** 10:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	130	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	76.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	3280	ug/L	09/20/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	47.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/21/2022	GEL	EPA 7470
Radium 226	2.12	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.975	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.10	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	13.6	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	215	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	323.8	mg/L	07/14/2022	AMSOULE	SM 2540C
pH	4.62	SU	07/12/2022	DEW/BM	

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

Sample Validated: 

Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services



One Riverwood Drive
P.O. Box 2946101
Moncks Corner, SC 29461-2901
(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38162 **Location:** GW Well WAP-7 **Date:** 07/13/2022 **Sample Collector:** DEW/BM
Loc. Code WAP-7 **Time:** 10:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/17/2022	EUROFINS SAV	EPA 6020B
Barium	39.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Calcium	683.0	mg/L	09/17/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	399	ug/L	09/16/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<20	ug/l	09/17/2022	EUROFINS SAV	EPA 6020B
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	4000.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	1.50	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.34	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.84	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/20/2022	KCWELLS	EPA 300.0
Chloride	123	mg/L	07/20/2022	KCWELLS	EPA 300.0
Sulfate	1380	mg/L	07/20/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	820.0	mg/L	07/15/2022	AMSOULE	SM 2540C
pH	6.53	SU	07/13/2022	DEW/BM	

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

Sample Validated:  Final Validation Date: 10/03/2022
Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38192 **Location:** WGS well WLF A1-1 **Date:** 07/12/2022 **Sample Collector:** DEW/BM
Loc. Code WLF-A1-1 **Time:** 14:55

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5	ug/L	08/26/2022	R&C	EPA 6020B
Barium	37.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	310.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	08/26/2022	R&C	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	08/26/2022	R&C	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	10300	ug/L	09/20/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	880.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	0.189	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.572	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined	0.762	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Calculation					
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	23.4	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	564	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1222	mg/L	07/14/2022	AMSOULE	SM 2540C
pH	6.03	SU	07/12/2022	DEW/BM	

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

Sample Validated: 

Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38193 **Location:** WGS well WLF A1-2 **Date:** 07/11/2022 **Sample Collector:** DEW/DJ
Loc. Code WLF-A1-2 **Time:** 13:38

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	49.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	32.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.91	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2860	ug/L	09/20/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	110.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	0.885	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.91	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined	2.80	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Calculation					
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	4.78	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	82.1	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	133.8	mg/L	07/13/2022	AMSOULE	SM 2540C
pH	4.59	SU	07/11/2022	DEW/BM	

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

Sample Validated: 

Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38194 **Location:** WGS well WLF A1-3 **Date:** 07/11/2022 **Sample Collector:** DEW/DJ
Loc. Code WLF-A1-3 **Time:** 14:41

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	7	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	36.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	18.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.89	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	399	ug/L	09/28/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	260.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	0.963	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.52	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined	2.49	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Calculation					
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	5.04	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	66.8	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	96.25	mg/L	07/13/2022	AMSOULE	SM 2540C
pH	4.32	SU	07/11/2022	DEW/BM	

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

Sample Validated: 

Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38195 **Location:** WGS well WLF A1-4 **Date:** 07/11/2022 **Sample Collector:** DEW/DJ
Loc. Code WLF-A1-4 **Time:** 15:35

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	36.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	76.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2520	ug/L	09/20/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	220.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	0.493	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	2.39	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined	2.88	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Calculation					
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	6.56	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	69.2	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	280.0	mg/L	07/13/2022	AMSOULE	SM 2540C
pH	6.03	SU	07/11/2022	DEW/BM	

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

Sample Validated: 

Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38196 **Location:** WGS well WLF A1-4 **Date:** 07/11/2022 **Sample Collector:** DEW/DJ
Loc. Code WLF-A1-4 **DUP** **Time:** 15:40

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	35.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	79.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2120	ug/L	09/20/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	210.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	0.378	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.604	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined	0.982	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Calculation					
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	6.64	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	69.9	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	268.8	mg/L	07/13/2022	AMSOULE	SM 2540C

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

Sample Validated:



Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF38197 **Location:** WGS well WLF A1-5 **Date:** 07/12/2022 **Sample Collector:** DEW/BM
Loc. Code WLF-A1-5 **Time:** 13:58

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	37.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	290.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2870	ug/L	09/20/2022	EUROFINS SAV	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	23.0	ug/L	08/24/2022	R&C	EPA 6010D
Boron	1900.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Radium 226	0.339	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.477	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined	0.816	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Calculation					
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	168	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	465	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1338	mg/L	07/14/2022	AMSOULE	SM 2540C
pH	6.76	SU	07/12/2022	DEW/BM	

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

Sample Validated: 

Final Validation Date: 10/03/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41635 **Location:** WGS well WLF A1-2 **Date:** 08/08/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-2 **Time:** 14:25

Analysis	Result	Units	Test Date	Analyst	Method
Boron	120.0	ug/L	08/17/2022	R&C	EPA 6010D
Nitrite	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Chloride	5.54	mg/L	08/10/2022	KCWELLS	EPA 300.0
Sulfate	88.6	mg/L	08/10/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	153.8	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	4.53	SU	08/08/2022	DEW/BB	
Alkalinity	9.0	mg/L	08/10/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/10/2022	GEL	SM 2320B
Bicarbonate Alkalinity	9.0	mg/L	08/10/2022	GEL	SM 2320B

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:

Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41635 **Location:** WGS well WLF A1-2 **Date:** 08/08/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-2 **Time:** 14:25

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	33.00	mg/l	08/17/2022	R&C	EPA 6010D
Iron	3400	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	0.470	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	2.20	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	0.870	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	1.60	mg/L	08/12/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.27	mg/L	08/13/2022	GEL	SM 5310B
Nitrate	<0.10	mg/L	08/11/2022	KCWELLS	EPA 300.0
Iron - Dissolved	3600	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	34.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	37.0	ug/L	08/17/2022	R&C	EPA 200.7

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:

Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41641 **Location:** GWWell WAP-7 **Date:** 08/09/2022 **Sample Collector:** DEW/BB

Loc. Code WAP-7 **Time:** 14:55

Analysis	Result	Units	Test Date	Analyst	Method
Potassium	5.60	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	15.0	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	16.0	mg/l	08/17/2022	R&C	EPA 6010D
Iron - Dissolved	290	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	510.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	510.0	ug/L	08/17/2022	R&C	EPA 200.7

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:

Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41641 Location: GWWell WAP-7 Date: 08/09/2022 Sample Collector: DEW/BB
Loc. Code WAP-7 Time: 14:55

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	690.0	mg/l	08/17/2022	R&C	EPA 6010D
Boron	4000.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	190	ug/L	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	18.5	mg/L	08/17/2022	GEL	SM 5310B
Dissolved Organic Carbon	19.0	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	109	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	1240	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2531	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	6.52	SU	08/09/2022	DEW/BB	
Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B

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:


Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41636 **Location:** WGS well WLF A1-3 **Date:** 08/08/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-3 **Time:** 15:27

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	18.00	mg/l	08/17/2022	R&C	EPA 6010D
Boron	170.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	480	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	0.540	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	2.30	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	0.490	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	1.14	mg/L	08/12/2022	GEL	SM 5310B
Dissolved Organic Carbon	<1.00	mg/L	08/13/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Chloride	5.37	mg/L	08/10/2022	KCWELLS	EPA 300.0
Sulfate	62.6	mg/L	08/10/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	91.25	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	4.24	SU	08/08/2022	DEW/BB	
Alkalinity	<4	mg/L	08/10/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/10/2022	GEL	SM 2320B
Bicarbonate Alkalinity	<4	mg/L	08/10/2022	GEL	SM 2320B
Iron - Dissolved	460	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	23.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	22.0	ug/L	08/17/2022	R&C	EPA 200.7

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:


Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41633 Location: WGS well WBWA1 Date: 08/09/2022 Sample Collector: DEW/BB
Loc. Code WBWA1-1 Time: 10:28

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	92.00	mg/l	08/17/2022	R&C	EPA 6010D
Boron	56.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	3900	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	5.00	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	14.0	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	3.40	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	4.20	mg/L	08/17/2022	GEL	SM 5310B
Dissolved Organic Carbon	4.34	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	15.4	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	248	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	365.0	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	4.67	SU	08/09/2022	DEW/BB	
Alkalinity	4.2	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	4.2	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	3800	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	48.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	49.0	ug/L	08/17/2022	R&C	EPA 200.7

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:

Validated date: 9/22/22
Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41639 **Location:** WGS well WLF A1-5 **Date:** 08/09/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-5 **Time:** 11:38

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	310.0	mg/l	08/17/2022	R&C	EPA 6010D
Boron	1800.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	3800	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	8.70	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	23.0	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	30.0	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	9.64	mg/L	08/17/2022	GEL	SM 5310B
Dissolved Organic Carbon	9.85	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	164	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	529	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1456	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	6.46	SU	08/09/2022	DEW/BB	
Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	3000	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	1100.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	1100.0	ug/L	08/17/2022	R&C	EPA 200.7

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:


Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41634 **Location:** WGS well WLF A1-1 **Date:** 08/09/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-1 **Time:** 12:51

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	390.0	mg/l	08/17/2022	R&C	EPA 6010D
Boron	910.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	9200	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	5.70	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	9.50	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	9.20	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	11.7	mg/L	08/17/2022	GEL	SM 5310B
Dissolved Organic Carbon	12.0	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	20.8	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	519	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1125	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	6.13	SU	08/09/2022	DEW/BB	
Alkalinity	280	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	280	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	9500	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	930.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	960.0	ug/L	08/17/2022	R&C	EPA 200.7

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:

Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41637 **Location:** WGS well WLF A1-4 **Date:** 08/09/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-4 **Time:** 13:59

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	93.00	mg/l	08/17/2022	R&C	EPA 6010D
Boron	270.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	2700	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	1.60	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	3.10	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	1.70	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	11.7	mg/L	08/17/2022	GEL	SM 5310B
Dissolved Organic Carbon	12.1	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	7.68	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	77.5	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	288.8	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	6.15	SU	08/09/2022	DEW/BB	
Alkalinity	120	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	120	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	2600	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	89.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	89.0	ug/L	08/17/2022	R&C	EPA 200.7

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:

Validated date: 9/22/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF41638 **Location:** WGS well WLF A1-4 **Date:** 08/09/2022 **Sample Collector:** DEW/BB

Loc. Code WLF-A1-4 **DUP** **Time:** 14:04

Analysis	Result	Units	Test Date	Analyst	Method
Calcium	89.00	mg/l	08/17/2022	R&C	EPA 6010D
Boron	260.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	2900	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	1.80	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	3.10	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	1.80	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	11.8	mg/L	08/17/2022	GEL	SM 5310B
Dissolved Organic Carbon	12.2	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	7.79	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	78.1	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	297.5	mg/L	08/12/2022	KCWELLS	SM 2540C
Alkalinity	130	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	130	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	2800	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	96.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	110.0	ug/L	08/17/2022	R&C	EPA 200.7

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:


Validated date: 9/22/22

Linda Williams - Manager Analytical Services

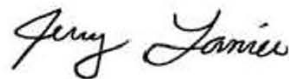
ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-214698-1
Client Project/Site: 125915/JM02.08.G01.1/36500
Revision: 1

For:
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams



Authorized for release by:
6/2/2022 9:20:25 AM

Jerry Lanier, Project Manager I
(912)250-0281
Jerry.Lanier@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Definitions	6
Detection Summary	7
Client Sample Results	9
QC Sample Results	22
QC Association	24
Chronicle	26
Chain of Custody	29
Receipt Checklists	37
Certification Summary	39

Case Narrative

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Job ID: 680-214698-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-214698-1

Comments

No additional comments.

Revision

The final report was revised to include additional metals.

Receipt

The samples were received on 4/28/2022 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 was 18.3° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-214698-1	AF27221	Water	02/15/22 11:24	04/28/22 10:30
680-214698-2	AF27222	Water	02/16/22 13:46	04/28/22 10:30
680-214698-3	AF27223	Water	03/03/22 11:48	04/28/22 10:30
680-214698-4	AF27224	Water	03/02/22 13:54	04/28/22 10:30
680-214698-5	AF27225	Water	03/02/22 12:31	04/28/22 10:30
680-214698-6	AF27226	Water	03/02/22 11:20	04/28/22 10:30
680-214698-7	AF27227	Water	03/02/22 11:25	04/28/22 10:30
680-214698-8	AF27228	Water	03/03/22 13:06	04/28/22 10:30
680-214698-9	AF27229	Water	02/24/22 10:27	04/28/22 10:30
680-214698-10	AF27230	Water	02/24/22 10:33	04/28/22 10:30
680-214698-11	AF27231	Water	02/23/22 11:22	04/28/22 10:30
680-214698-12	AF27232	Water	02/24/22 11:44	04/28/22 10:30
680-214698-13	AF27233	Water	02/24/22 11:49	04/28/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	TAL SAV
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL SAV

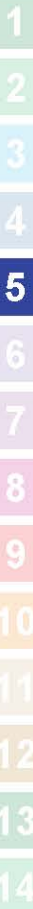
Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

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.
⌘	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: 680-214698-1

Client Sample ID: AF27221

Lab Sample ID: 680-214698-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.38		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27222

Lab Sample ID: 680-214698-2

No Detections.

Client Sample ID: AF27223

Lab Sample ID: 680-214698-3

No Detections.

Client Sample ID: AF27224

Lab Sample ID: 680-214698-4

No Detections.

Client Sample ID: AF27225

Lab Sample ID: 680-214698-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.15		3.00		ug/L	1		6020B	Total/NA
Cobalt	1.43		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27226

Lab Sample ID: 680-214698-6

No Detections.

Client Sample ID: AF27227

Lab Sample ID: 680-214698-7

No Detections.

Client Sample ID: AF27228

Lab Sample ID: 680-214698-8

No Detections.

Client Sample ID: AF27229

Lab Sample ID: 680-214698-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	322		3.00		ug/L	1		6020B	Total/NA
Cobalt	0.790		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27230

Lab Sample ID: 680-214698-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	301		3.00		ug/L	1		6020B	Total/NA
Cobalt	0.750		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27231

Lab Sample ID: 680-214698-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	452		3.00		ug/L	1		6020B	Total/NA
Cobalt	0.755		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27232

Lab Sample ID: 680-214698-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.11		3.00		ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27233

Lab Sample ID: 680-214698-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.96		3.00		ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

- 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: 680-214698-1

Client Sample ID: AF27221

Lab Sample ID: 680-214698-1

Date Collected: 02/15/22 11:24

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:43	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:43	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:43	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:43	1
Cobalt	8.38		0.500		ug/L		05/24/22 16:11	05/25/22 20:43	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:43	1
Antimony	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:43	1
Copper	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:43	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:06	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:06	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27222

Lab Sample ID: 680-214698-2

Date Collected: 02/16/22 13:46

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:51	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:51	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:51	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:51	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:51	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:51	1
Antimony	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:51	1
Copper	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:51	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:09	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:09	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27223

Lab Sample ID: 680-214698-3

Date Collected: 03/03/22 11:48

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:33	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:33	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:33	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:33	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:33	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:33	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:33	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:33	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:13	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:13	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27224

Lab Sample ID: 680-214698-4

Date Collected: 03/02/22 13:54

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:18	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:18	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:18	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:18	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:18	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:18	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:18	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:18	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:23	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:23	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27225

Lab Sample ID: 680-214698-5

Date Collected: 03/02/22 12:31

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.15		3.00		ug/L		05/25/22 10:44	05/26/22 09:20	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	1
Cobalt	1.43		0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:20	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:27	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:27	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27226

Lab Sample ID: 680-214698-6

Date Collected: 03/02/22 11:20

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:28	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:28	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:30	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:30	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27227

Lab Sample ID: 680-214698-7

Date Collected: 03/02/22 11:25

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:31	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:31	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:31	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:31	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:31	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:31	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:31	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:31	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:34	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:34	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27228

Lab Sample ID: 680-214698-8

Date Collected: 03/03/22 13:06

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:36	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:36	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:36	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:36	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:36	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:37	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:37	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27229

Lab Sample ID: 680-214698-9

Date Collected: 02/24/22 10:27

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	322		3.00		ug/L		05/24/22 17:36	05/25/22 21:50	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:50	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:50	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:50	1
Cobalt	0.790		0.500		ug/L		05/24/22 17:36	05/25/22 21:50	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:50	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:50	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:50	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:41	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:41	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27230

Lab Sample ID: 680-214698-10

Date Collected: 02/24/22 10:33

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	301		3.00		ug/L		05/24/22 17:36	05/25/22 21:53	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:53	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:53	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:53	1
Cobalt	0.750		0.500		ug/L		05/24/22 17:36	05/25/22 21:53	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:53	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:53	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:53	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:55	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:55	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27231

Lab Sample ID: 680-214698-11

Date Collected: 02/23/22 11:22

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	452		3.00		ug/L		05/24/22 17:36	05/25/22 21:32	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:32	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:32	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:32	1
Cobalt	0.755		0.500		ug/L		05/24/22 17:36	05/25/22 21:32	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:32	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:32	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:32	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 20:09	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 20:09	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27232

Lab Sample ID: 680-214698-12

Date Collected: 02/24/22 11:44

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.11		3.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:55	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 20:23	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 20:23	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27233

Lab Sample ID: 680-214698-13

Date Collected: 02/24/22 11:49

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.96		3.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:58	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 20:33	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 20:33	1

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-722485/1-A
Matrix: Water
Analysis Batch: 722803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 722485

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 19:49	1
Antimony	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Copper	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1

Lab Sample ID: LCS 680-722485/2-A
Matrix: Water
Analysis Batch: 722803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 722485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec Limits
Beryllium	50.0	49.07		ug/L		98	80 - 120
Cadmium	50.0	49.44		ug/L		99	80 - 120
Chromium	100	96.03		ug/L		96	80 - 120
Cobalt	50.0	51.43		ug/L		103	80 - 120
Lead	505	490.3		ug/L		97	80 - 120
Antimony	50.0	49.84		ug/L		100	80 - 120
Copper	99.1	101.3		ug/L		102	80 - 120

Lab Sample ID: MB 680-722492/1-A
Matrix: Water
Analysis Batch: 722803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 722492

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:11	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1

Lab Sample ID: LCS 680-722492/2-A
Matrix: Water
Analysis Batch: 722803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 722492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec Limits
Beryllium	50.0	49.53		ug/L		99	80 - 120
Cadmium	50.0	48.90		ug/L		98	80 - 120
Chromium	100	94.29		ug/L		94	80 - 120
Cobalt	50.0	50.79		ug/L		102	80 - 120
Lead	505	487.3		ug/L		97	80 - 120
Antimony	50.0	50.08		ug/L		100	80 - 120

Eurofins Savannah

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-722492/2-A
Matrix: Water
Analysis Batch: 722803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 722492
%Rec

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	99.1	99.76		ug/L		101	80 - 120

Lab Sample ID: MB 680-722593/1-A
Matrix: Water
Analysis Batch: 722917

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 722593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 08:57	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1

Lab Sample ID: LCS 680-722593/2-A
Matrix: Water
Analysis Batch: 722917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 722593
%Rec

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	100	93.65		ug/L		94	80 - 120
Beryllium	50.0	48.67		ug/L		97	80 - 120
Cadmium	50.0	48.55		ug/L		97	80 - 120
Chromium	100	89.35		ug/L		89	80 - 120
Cobalt	50.0	49.48		ug/L		99	80 - 120
Lead	505	478.9		ug/L		95	80 - 120
Antimony	50.0	49.24		ug/L		99	80 - 120
Copper	99.1	96.16		ug/L		97	80 - 120

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-398254/1-A
Matrix: Water
Analysis Batch: 398622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 17:35	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 17:35	1

Lab Sample ID: LCS 180-398254/2-A
Matrix: Water
Analysis Batch: 398622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398254
%Rec

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Selenium	1000	972.2		ug/L		97	80 - 120
Thallium	1000	1012		ug/L		101	80 - 120

Eurofins Savannah

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Metals

Prep Batch: 398254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	3010A	
680-214698-2	AF27222	Total/NA	Water	3010A	
680-214698-3	AF27223	Total/NA	Water	3010A	
680-214698-4	AF27224	Total/NA	Water	3010A	
680-214698-5	AF27225	Total/NA	Water	3010A	
680-214698-6	AF27226	Total/NA	Water	3010A	
680-214698-7	AF27227	Total/NA	Water	3010A	
680-214698-8	AF27228	Total/NA	Water	3010A	
680-214698-9	AF27229	Total/NA	Water	3010A	
680-214698-10	AF27230	Total/NA	Water	3010A	
680-214698-11	AF27231	Total/NA	Water	3010A	
680-214698-12	AF27232	Total/NA	Water	3010A	
680-214698-13	AF27233	Total/NA	Water	3010A	
MB 180-398254/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 398622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	EPA 6020B	398254
680-214698-2	AF27222	Total/NA	Water	EPA 6020B	398254
680-214698-3	AF27223	Total/NA	Water	EPA 6020B	398254
680-214698-4	AF27224	Total/NA	Water	EPA 6020B	398254
680-214698-5	AF27225	Total/NA	Water	EPA 6020B	398254
680-214698-6	AF27226	Total/NA	Water	EPA 6020B	398254
680-214698-7	AF27227	Total/NA	Water	EPA 6020B	398254
680-214698-8	AF27228	Total/NA	Water	EPA 6020B	398254
680-214698-9	AF27229	Total/NA	Water	EPA 6020B	398254
680-214698-10	AF27230	Total/NA	Water	EPA 6020B	398254
680-214698-11	AF27231	Total/NA	Water	EPA 6020B	398254
680-214698-12	AF27232	Total/NA	Water	EPA 6020B	398254
680-214698-13	AF27233	Total/NA	Water	EPA 6020B	398254
MB 180-398254/1-A	Method Blank	Total/NA	Water	EPA 6020B	398254
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	398254

Prep Batch: 722485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	3010A	
680-214698-2	AF27222	Total/NA	Water	3010A	
MB 680-722485/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 722492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-9	AF27229	Total/NA	Water	3010A	
680-214698-10	AF27230	Total/NA	Water	3010A	
680-214698-11	AF27231	Total/NA	Water	3010A	
680-214698-12	AF27232	Total/NA	Water	3010A	
680-214698-13	AF27233	Total/NA	Water	3010A	
MB 680-722492/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	3010A	

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Metals

Prep Batch: 722593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-3	AF27223	Total/NA	Water	3010A	
680-214698-4	AF27224	Total/NA	Water	3010A	
680-214698-5	AF27225	Total/NA	Water	3010A	
680-214698-6	AF27226	Total/NA	Water	3010A	
680-214698-7	AF27227	Total/NA	Water	3010A	
680-214698-8	AF27228	Total/NA	Water	3010A	
MB 680-722593/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 722803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	6020B	722485
680-214698-2	AF27222	Total/NA	Water	6020B	722485
680-214698-9	AF27229	Total/NA	Water	6020B	722492
680-214698-10	AF27230	Total/NA	Water	6020B	722492
680-214698-11	AF27231	Total/NA	Water	6020B	722492
680-214698-12	AF27232	Total/NA	Water	6020B	722492
680-214698-13	AF27233	Total/NA	Water	6020B	722492
MB 680-722485/1-A	Method Blank	Total/NA	Water	6020B	722485
MB 680-722492/1-A	Method Blank	Total/NA	Water	6020B	722492
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	6020B	722485
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	6020B	722492

Analysis Batch: 722917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-3	AF27223	Total/NA	Water	6020B	722593
680-214698-4	AF27224	Total/NA	Water	6020B	722593
680-214698-5	AF27225	Total/NA	Water	6020B	722593
680-214698-6	AF27226	Total/NA	Water	6020B	722593
680-214698-7	AF27227	Total/NA	Water	6020B	722593
680-214698-8	AF27228	Total/NA	Water	6020B	722593
MB 680-722593/1-A	Method Blank	Total/NA	Water	6020B	722593
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	6020B	722593

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27221

Lab Sample ID: 680-214698-1

Date Collected: 02/15/22 11:24

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:43	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:06	RSK	TAL PIT

Client Sample ID: AF27222

Lab Sample ID: 680-214698-2

Date Collected: 02/16/22 13:46

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:51	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:09	RSK	TAL PIT

Client Sample ID: AF27223

Lab Sample ID: 680-214698-3

Date Collected: 03/03/22 11:48

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:33	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:13	RSK	TAL PIT

Client Sample ID: AF27224

Lab Sample ID: 680-214698-4

Date Collected: 03/02/22 13:54

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:18	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:23	RSK	TAL PIT

Client Sample ID: AF27225

Lab Sample ID: 680-214698-5

Date Collected: 03/02/22 12:31

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:20	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:27	RSK	TAL PIT

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27226

Lab Sample ID: 680-214698-6

Date Collected: 03/02/22 11:20

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:28	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:30	RSK	TAL PIT

Client Sample ID: AF27227

Lab Sample ID: 680-214698-7

Date Collected: 03/02/22 11:25

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:31	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:34	RSK	TAL PIT

Client Sample ID: AF27228

Lab Sample ID: 680-214698-8

Date Collected: 03/03/22 13:06

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:36	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:37	RSK	TAL PIT

Client Sample ID: AF27229

Lab Sample ID: 680-214698-9

Date Collected: 02/24/22 10:27

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:50	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:41	RSK	TAL PIT

Client Sample ID: AF27230

Lab Sample ID: 680-214698-10

Date Collected: 02/24/22 10:33

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:53	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:55	RSK	TAL PIT

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27231

Lab Sample ID: 680-214698-11

Date Collected: 02/23/22 11:22

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:32	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 20:09	RSK	TAL PIT

Client Sample ID: AF27232

Lab Sample ID: 680-214698-12

Date Collected: 02/24/22 11:44

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:55	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 20:23	RSK	TAL PIT

Client Sample ID: AF27233

Lab Sample ID: 680-214698-13

Date Collected: 02/24/22 11:49

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:58	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 20:33	RSK	TAL PIT

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone (843)761-8000 Ext. 3148
Fax (843)761-4175

Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santeecooper.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	As, Be, Cd, Co Cr, Cu, Pb, Se	Tl, Pb
AF27221	WBW-1	2/15	1124	BRT/BSB	1	P	G	GW	2	METHOD 6020	X	X
22	WBW-A1-1	2/16	1346							SEE SHEET FOR RLS.		
23	WLF-A1-1	3/3	1148									
24	2	3/2	1354									
25	3		1231									
26	4		1120									
27	4 DUP		1125									
28	WLF-A1-5	3/3	1306									
29	WLF-A2-1	2/24	1021									
30	1 DUP		1033									



Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35574	4/27/22	1500	<i>TA</i>	TA	4/28/22	1030

Sample Receiving (Internal Use Only)
TEMP (°C): 18.9 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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"/> Sulfides <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dynamic Viscosity <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Head Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cd, Cr, Ni, Pb, Se) <input type="checkbox"/> VFA <input type="checkbox"/> GORR
--	--	--	---	---	--	--

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



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 • Method # • Reporting limit • Misc. sample info • Any other notes	As, Br, Cd, Co Cr, Cu, Pb, Se	Tl, Pb		
AF27230	WLF A2-2	2/23	1122	BRT BBB	1	P	G	GW	2	METHOD 6020	X	X		
32	-6	2/24	1144							SEE SHEET FOR RLS.				
33	-6 DUP		1149											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>		4/21/22	1500	<i>JM</i>	7A	4-28-22	1030

Sample Receiving (Internal Use Only)
 TEMP (°C): 18.9 Initial:
 Correct pH: 18.3 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	Nutrients <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> P <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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 1) Sulfur	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trace Oil Qual <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Density <input type="checkbox"/> Viscosity <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Total Oil <input type="checkbox"/> Fluoride <input type="checkbox"/> Metals in oil <input type="checkbox"/> As, Cd, Ni, Pb <input type="checkbox"/> Hg <input type="checkbox"/> TSS <input type="checkbox"/> GORE
--	--	--	--	---	--	--

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)

GW RLs (PPB):

Sb <5

As <5

Be <0.5

Cd <0.5

Cr <5

Co <0.5

Pb <1

Tl <1

Se <10 → ST. LOUIS

**All highlighted samples on the chains are samples already at Test America-Sav from prior analysis.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



eurofins
 Environment Testing
 America

Client Information (Sub Contract Lab)

Client Contact: Eurofins Environment Testing Southeast
 Shipping/Receiving: Eurofins Environment Testing Southeast
 Company: Eurofins Environment Testing Southeast
 Address: 5102 LaRoche Avenue, Savannah
 City: Savannah
 State, Zip: GA, 31404
 Phone: 912-354-7858(Tel) 912-352-0165(Fax)
 Email: [Blank]
 Project Name: 125915/JM02_08 G01 1/365500
 Site: SSOV#

Lab Pk#: Lanier, Jerry A
 E-Mail: Jerry.Lanier@et.eurofins.com
 State of Origin: South Carolina
 Carrier Tracking No(s): NELAP - Florida, State - South Carolina, State Program

COC No: 180-462144-1
 Page: Page 1 of 2
 Job #: 680-214698-1

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Metal, Organic, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note
AF27221 (680-214698-1)	2/15/22	11:24	Water	Water		X	X	6020B/3010A (MOD) 7 ICPMS Metals	1	
AF27222 (680-214698-2)	2/16/22	13:46	Water	Water		X	X		1	
AF27223 (680-214698-3)	3/3/22	11:48	Water	Water		X	X		1	
AF27224 (680-214698-4)	3/2/22	13:54	Water	Water		X	X		1	
AF27225 (680-214698-5)	3/2/22	12:31	Water	Water		X	X		1	
AF27226 (680-214698-6)	3/2/22	11:20	Water	Water		X	X		1	
AF27227 (680-214698-7)	3/2/22	11:25	Water	Water		X	X		1	
AF27228 (680-214698-8)	3/3/22	13:06	Water	Water		X	X		1	
AF27229 (680-214698-9)	2/24/22	10:27	Water	Water		X	X		1	

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amelior
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 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)

Other: [Blank]

Sample Identification - Client ID (Lab ID)

Due Date Requested: 5/5/2022
 TAT Requested (days): [Blank]

Project #: 68008190
 SSOV#: [Blank]

Field Filtered Sample (Yes or No): [Blank]
 Perform MS/MSD (Yes or No): [Blank]

Special Instructions/Note: [Blank]

Possible Hazard Identification

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1

Empty Kit Relinquished by: [Blank] Date: [Blank]

Relinquished by: [Signature] Date/Time: 5/23/22 17:20 Company: [Blank]

Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]

Custody Seals Intact: Yes No Custody Seal No: [Blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Dispose By Lab Archive For [Blank] Months

Special Instructions/QC Requirements: [Blank]

Method of Shipment: [Blank]

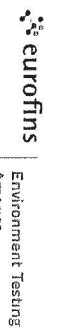
Received by: [Signature] Date/Time: 5/24/22 10:30 Company: [Blank]

Received by: [Signature] Date/Time: [Blank] Company: [Blank]

Cooler Temperature(s) °C and Other Remarks: [Blank]

Eurofins Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s):	COCC No.				
Client Contact: Eurofins Environment Testing Southeast		Phone:	Jerry Lanier		180-462144-2				
Shipping/Receiving		E-Mail:	Jerry Lanier@et.eurofins.com	State of Origin:	Page 2 of 2				
Address: 5102 LaRoche Avenue		Accreditations Required (See note):	NELAP - Florida, State - South Carolina, State Program		Job #:				
City: Savannah		Due Date Requested	5/6/2022		680-214698-1				
State Zip: GA, 31404		TAT Requested (days):	7		Preservation Codes				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)		PO #:			A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amphot H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other				
Email:		WC #:			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 - Triana Z - other (specify)				
Project Name: 125915/JM02.08 G01 1/36500		Project #:	68008190						
Site:		SSOW#:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Aluminum, Selenium, Oxide, As, Pb)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
AF27230 (680-214698-10)	2/24/22	10 33	Eastern	Water		X		1	
AF27231 (680-214698-11)	2/23/22	11 22	Eastern	Water		X		1	
AF27232 (680-214698-12)	2/24/22	11 44	Eastern	Water		X		1	
AF27233 (680-214698-13)	2/24/22	11 49	Eastern	Water		X		1	
<p>Note: Since laboratory accreditations are subject to change Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out 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/elements/matrix being analyzed the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date return the signed Chain of Custody adhering to said compliance to Eurofins Pittsburgh.</p>									
Possible Hazard Identification					<input type="checkbox"/> 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				
Deliverable Requested I, II, III, IV, Other (specify)					Primary Deliverable Rank: 1				
Empty Kit Relinquished by					Date				
Relinquished by: <i>[Signature]</i>		Date/Time: 5/23/22 1:00		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date/Time: 5/24/22 10:30	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		16.2/15.8			

TestAmerica
 ESTABLISHED 1988
 THE LEADER IN ENVIRONMENTAL TESTING



JAVA (812) 354-7858
 ESTAMERICA
 JUDIE AVE
 GA 31404
 TATEB UB

SHIP DATE: 02MAY22
 ACT WT: 15.00 LB
 CNO: 0601261/CRFES11

BILL SENDER

SHIPPING/RECEIVING
 ROFINS ENVIRONMENT TESTING-NORTHE
 1 ALPHA DRIVE
 IDC PARK
 PITTSBURGH PA 15238
 REF: 8680-136698

Uncorrected temp 13.0 °C
 Thermometer ID 16
 Initials CF

TUE - 03 MAY 10:30A
 PRIORITY OVERNIGHT

XN AGCA



15238
 PA-US PIT



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Met 1388

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler: Lab P.M. Lanier, Jerry A		680-214698 Chain of Custody		#B.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Jerry.Lanier@st.eurofins.com		South Carolina	
Company: Eurofins Environment Testing Northeast		Date Date Requested: 5/8/2022		Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program ...		Job #: 680-214698-1	
Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh, State, Zip: PA, 15238		TAT Requested (days):		Analysis Requested		Preservation Codes:	
Phone: 412-963-7058(Tel) 412-983-2468(Fax)		PD #:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8020B/8010A, (MDO) 2 (CPMS Metals)		A - HCL M - Hexane B - NaOH N - None C - Zr Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecylsulfate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA X - Other (specify)	
Project Name: 125915/JM02.08.G01.1/36500		Project #: 68008190				Total Number of Containers	
Site: SSOVM		SSOVM					
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
						Matrix (W=water, S=solid, D=dissolved)	
						Preservation Code:	
AF27221 (680-214698-1)		2/15/22		11:24 Eastern		Water	
AF27222 (680-214698-2)		2/16/22		13:46 Eastern		Water	
AF27223 (680-214698-3)		3/3/22		11:46 Eastern		Water	
AF27224 (680-214698-4)		3/2/22		13:54 Eastern		Water	
AF27225 (680-214698-5)		3/2/22		12:31 Eastern		Water	
AF27226 (680-214698-6)		3/2/22		11:20 Eastern		Water	
AF27227 (680-214698-7)		3/2/22		11:25 Eastern		Water	
AF27228 (680-214698-8)		3/3/22		13:08 Eastern		Water	
AF27229 (680-214698-9)		2/24/22		10:27 Eastern		Water	
<p>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</p>							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 1		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 5/2 10:00		Company:		Received by: <i>DW</i>	
Relinquished by:		Date/Time:		Company:		Date/Time: 5-3-22	
Relinquished by:		Date/Time:		Company:		Date/Time: 9:00	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-214698-1

Login Number: 214698

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 <math><6\text{mm}</math> (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: 680-214698-1

Login Number: 214698
List Number: 2
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh
List Creation: 05/03/22 05:29 PM

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?	N/A	
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: 680-214698-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	89014	05-19-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



March 24, 2022

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

Re: ABS Lab Analytical
Work Order: 571577

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 25, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

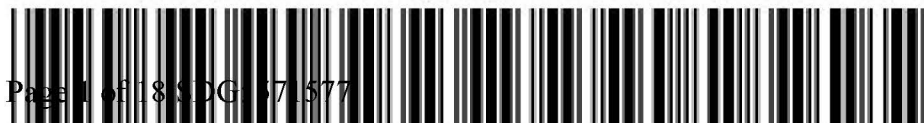
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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,

Nina Gampe for
Julie Robinson
Project Manager

Purchase Order: 367074
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: 571577 GEL Work Order: 571577

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: March 24, 2022

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: AF27221	Project: SOOP00119
Sample ID: 571577001	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 15-FEB-22 11:24	
Receive Date: 25-FEB-22	
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		2.97	+/-1.30	1.86	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.17	+/-1.33			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.208	+/-0.280	0.481	1.00	pCi/L			LXP1	03/07/22	0837	2234711	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"			86.5	(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: March 24, 2022

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: AF27187	Project: SOOP00119
Sample ID: 571577002	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 15-FEB-22 12:34	
Receive Date: 25-FEB-22	
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	0.865	+/-0.881	1.45	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.14	+/-0.973			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.27	+/-0.414	0.305	1.00	pCi/L			LXP1	03/07/22	0837	2234711	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"			87.3	(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: March 24, 2022

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: AF27222	Project: SOOP00119
Sample ID: 571577003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 16-FEB-22 13:46	
Receive Date: 25-FEB-22	
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	2.01	+/-1.37	2.16	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.77	+/-1.41			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.760	+/-0.340	0.350	1.00	pCi/L			LXP1	03/07/22	0837	2234711	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"			84.2	(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 24, 2022

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: AF27193	Project: SOOP00119
Sample ID: 571577004	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 17-FEB-22 10:05	
Receive Date: 25-FEB-22	
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	+/-1.38	1.93	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.94	+/-1.47			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.39	+/-0.509	0.546	1.00	pCi/L			LXP1	03/07/22	0837	2234711	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: March 24, 2022

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: AF27188	Project: SOOP00119
Sample ID: 571577005	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 21-FEB-22 10:42	
Receive Date: 25-FEB-22	
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		3.18	+/-1.45	2.12	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		12.1	+/-1.85			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		8.96	+/-1.15	0.494	1.00	pCi/L			LXP1	03/07/22	0911	2234711	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"			81.8	(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 24, 2022

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: AF27189	Project: SOOP00119
Sample ID: 571577006	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 21-FEB-22 12:05	
Receive Date: 25-FEB-22	
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		2.69	+/-1.69	2.65	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.56	+/-1.83			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.87	+/-0.702	0.384	1.00	pCi/L			LXP1	03/07/22	0911	2234711	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"			73.9	(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: March 24, 2022

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: AF27190	Project: SOOP00119
Sample ID: 571577007	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 21-FEB-22 13:35	
Receive Date: 25-FEB-22	
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	0.457	+/-1.10	1.96	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		7.15	+/-1.44			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		6.69	+/-0.923	0.251	1.00	pCi/L			LXP1	03/07/22	0911	2234711	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

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

Certificate of Analysis

Report Date: March 24, 2022

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: AF27196	Project: SOOP00119
Sample ID: 571577008	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 21-FEB-22 14:48	
Receive Date: 25-FEB-22	
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		2.29	+/-1.04	1.37	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.90	+/-1.27			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		4.61	+/-0.728	0.280	1.00	pCi/L			LXP1	03/07/22	0911	2234711	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"			74.7	(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: March 24, 2022

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: AF27197	Project: SOOP00119
Sample ID: 571577009	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 21-FEB-22 14:53	
Receive Date: 25-FEB-22	
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	1.41	+/-1.05	1.66	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.77	+/-1.23			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.37	+/-0.643	0.437	1.00	pCi/L			LXP1	03/07/22	0911	2234711	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: March 24, 2022

Page 1 of 2

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

Contact:
Workorder: 571577

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2234724										
QC1205029469	571574001	DUP									
Radium-228		2.85		3.00	pCi/L	5.02		(0% - 100%)	JXC9	03/09/22	09:18
	Uncertainty	+/-1.24		+/-1.15							
QC1205029470	LCS										
Radium-228		47.2		44.7	pCi/L		94.6	(75%-125%)		03/09/22	09:18
	Uncertainty			+/-3.31							
QC1205029468	MB										
Radium-228				2.83	pCi/L					03/09/22	09:18
	Uncertainty			+/-1.17							
Rad Ra-226											
Batch	2234711										
QC1205029423	571574001	DUP									
Radium-226		U	0.169	U	0.394	pCi/L	N/A		N/A	LXP1	03/07/22 09:11
	Uncertainty		+/-0.220		+/-0.365						
QC1205029425	LCS										
Radium-226		26.5		22.8	pCi/L		85.9	(75%-125%)		03/07/22	09:42
	Uncertainty			+/-1.65							
QC1205029422	MB										
Radium-226			U	0.214	pCi/L					03/07/22	09:11
	Uncertainty			+/-0.261							
QC1205029424	571574001	MS									
Radium-226		134 U	0.169		116	pCi/L		86.8	(75%-125%)	03/07/22	09:42
	Uncertainty		+/-0.220		+/-8.69						

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.

GEL LABORATORIES LLC

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

QC Summary

Workorder: 571577

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H		Analytical holding time was exceeded								
J		See case narrative for an explanation								
J		Value is estimated								
K		Analyte present. Reported value may be biased high. Actual value is expected to be lower.								
L		Analyte present. Reported value may be biased low. Actual value is expected to be higher.								
M		M if above MDC and less than LLD								
M		REMP Result > MDC/CL and < RDL								
N/A		RPD or %Recovery limits do not apply.								
NI		See case narrative								
ND		Analyte concentration is not detected above the detection limit								
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.								
R		Sample results are rejected								
U		Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.								
UI		Gamma Spectroscopy--Uncertain identification								
UJ		Gamma Spectroscopy--Uncertain identification								
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.								
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Y		Other specific qualifiers were required to properly define the results. Consult case narrative.								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
h		Preparation or preservation holding time was exceeded								

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 #: 571577**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2234724

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
571577001	AF27221
571577002	AF27187
571577003	AF27222
571577004	AF27193
571577005	AF27188
571577006	AF27189
571577007	AF27190
571577008	AF27196
571577009	AF27197
1205029468	Method Blank (MB)
1205029469	571574001(AF27924) Sample Duplicate (DUP)
1205029470	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 1205029469 (AF27924DUP), 571577004 (AF27193) and 571577006 (AF27189) were non-homogenous matrix. Samples contain sedimentation. 571577004 (AF27193) and 571577006 (AF27189).

Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205029468 (MB)	Radium-228	Result: 2.83 pCi/L > MDA: 1.62 pCi/L <= RDL: 3.00 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2234711

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
571577001	AF27221
571577002	AF27187
571577003	AF27222
571577004	AF27193
571577005	AF27188
571577006	AF27189
571577007	AF27190
571577008	AF27196
571577009	AF27197
1205029422	Method Blank (MB)
1205029423	571574001(AF27924) Sample Duplicate (DUP)
1205029424	571574001(AF27924) Matrix Spike (MS)
1205029425	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 1205029423 (AF27924DUP), 1205029424 (AF27924MS) and 571577004 (AF27193) were non-homogenous matrix.

Miscellaneous Information

Additional Comments

The matrix spike, 1205029424 (AF27924MS), 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

571577



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Run request for any flagged QC

LCWILLIA @santecooper.com

121567 / JMC2.09.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 • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC
AF27221	WBW-1	2/15/22	1124	BRI/ BSB	2	P	G	GW	2		X	X	X
AF27187	WAP-1	↓	1234										
AF27222	WBW-A1-1	2/16/22	1346										
AF27193	WAP-7	2/17/22	1005										
88	WAP-2	2/21/22	1042										
89	WAP-3		1205										
90	WAP-4		1335										
96	WAP-10		1448										
97	WAP-10 DUP		1453										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35594	2/25/22	1045	<i>[Signature]</i>	GEL	2/25/22	1045
<i>DUP</i>	<i>666</i>	<i>2-25-22</i>	<i>1305</i>	<i>[Signature]</i>	GEL	<i>2-25-22</i>	<i>1505</i>

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	Nutrients TOC DOC TP/TPO4 NH3-N F Cl NO2 Br NO3 SO4	MISC. <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	Gypsum Wallboard Gypsum(all below) <input type="checkbox"/> AIM <input type="checkbox"/> VOC <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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysts <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS	Oil Trans. Oil Qual. % Moisture Color Acidity Flashpoint Viscosity IP Density @ 15.6°C Used Oil Distillate Metals in oil (As, Cd, Cr, Ni, Pb, Hg) TX GORE
--	--	--	--	---	--	--

SR

SAMPLE RECEIPT & REVIEW FORM

Client: <u>SOOP</u>		SDG/AR/COC/Work Order: <u>571574/571575/571576/571577</u>			
Received By: <u>BE</u>		Date Received: <u>2-25-22</u>			
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 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): <u>0</u> 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 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>18</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: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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)
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 NRG Date 2/28/22 Page 1 of 1

List of current GEL Certifications as of 24 March 2022

State	Certification
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	SC000122021-1
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	2019-165
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	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

March 22, 2022

Sherri Brown
Santee Cooper
1 Riverwood Drive
Moncks Corner, SC 29461

RE: Project: 121567
Pace Project No.: 92592709

Dear Sherri Brown:

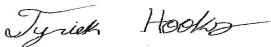
Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tyriek Hooks
tyriek.hooks@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeanette Gilmeti, Santee Cooper
Jeanette Gilmetti, Santee Cooper
Courtney Ames Watkins, Santee Cooper
Linda Williams, Santee Cooper



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 121567

Pace Project No.: 92592709

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: 121567
Pace Project No.: 92592709

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92592709001	AF2713	EPA 7470A	DBB1	1	PASI-A
92592709002	AF27226	EPA 7470A	DBB1	1	PASI-A
92592709003	AF27227	EPA 7470A	DBB1	1	PASI-A
92592709004	AF27225	EPA 7470A	DBB1	1	PASI-A
92592709005	AF27224	EPA 7470A	DBB1	1	PASI-A
92592709006	AF27228	EPA 7470A	DBB1	1	PASI-A
92592709007	AF27223	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF2713		Lab ID: 92592709001	Collected: 03/07/22 10:37	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:49	7439-97-6	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27226		Lab ID: 92592709002	Collected: 03/02/22 11:20	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:55	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27227		Lab ID: 92592709003	Collected: 03/02/22 11:25	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:57	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27225		Lab ID: 92592709004	Collected: 03/02/22 12:31	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:59	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27224		Lab ID: 92592709005	Collected: 03/02/22 13:54	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 12:06	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27228		Lab ID: 92592709006	Collected: 03/03/22 11:48	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 11:08	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27223		Lab ID: 92592709007	Collected: 03/03/22 13:06	Received: 03/10/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville						
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 11:10	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: 121567
Pace Project No.: 92592709

QC Batch: 684337 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92592709001, 92592709002, 92592709003, 92592709004, 92592709005, 92592709006, 92592709007

METHOD BLANK: 3579215 Matrix: Water
Associated Lab Samples: 92592709001, 92592709002, 92592709003, 92592709004, 92592709005, 92592709006, 92592709007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/22/22 10:45	

LABORATORY CONTROL SAMPLE: 3579216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.3	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3579217 3579218

Parameter	Units	92592709001		3579217		3579218		% Rec Limits	RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.			
Mercury	ug/L	ND	2.5	2.5	1.8	1.9	68	71	75-125	5 M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 121567
Pace Project No.: 92592709

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.


QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 121567
Pace Project No.: 92592709

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92592709001	AF2713	EPA 7470A	684337	EPA 7470A	685379
92592709002	AF27226	EPA 7470A	684337	EPA 7470A	685379
92592709003	AF27227	EPA 7470A	684337	EPA 7470A	685379
92592709004	AF27225	EPA 7470A	684337	EPA 7470A	685379
92592709005	AF27224	EPA 7470A	684337	EPA 7470A	685379
92592709006	AF27228	EPA 7470A	684337	EPA 7470A	685379
92592709007	AF27223	EPA 7470A	684337	EPA 7470A	685379

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Santa Cooper

Project #:

WO#: 92592709



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: h3/10/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 937021 Type of Ice: Wet Blue None

Cooler Temp: NA Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): NA

USDA Regulated Soil N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match CDC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>NT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCLRF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name: Sample Condition Upon Receipt (SCUR)
 Document No.: F-CAR-CS-033-Rev.08
 Document Revised: November 15, 2021
 Page 2 of 2
 Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **WO# : 92592709**

Exceptions: VOA, Coliform, TCC, Oil and Grease, DRO/8015 (Water) DOC, LHg

PM: TIIH Due Date: 03/24/22

**Bottom half of box is to list number of bottles

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP2U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG2U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A (DG3A)-250 mL Amber NH4Cl (N/A) (Cl-)	DG9H-48 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VP-H/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG3U-100 mL Amber Unpreserved vials (N/A)	V56U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



April 04, 2022

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

Re: ABS Lab Analytical
Work Order: 572527

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 08, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

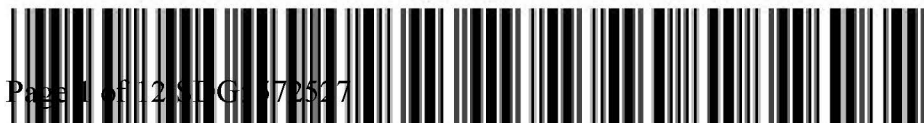
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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,

Nina Gampe 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: 572527 GEL Work Order: 572527

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 4, 2022

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: AF27228	Project: SOOP00119
Sample ID: 572527001	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 03-MAR-22 11:48	
Receive Date: 08-MAR-22	
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	0.668	+/-1.00	1.75	3.00	pCi/L			JXC9	03/31/22	1039	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.45	+/-1.07			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.779	+/-0.371	0.466	1.00	pCi/L			LXP1	03/23/22	1026	2238657	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"			60.7	(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 4, 2022

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: AF27223	Project: SOOP00119
Sample ID: 572527002	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 03-MAR-22 13:06	
Receive Date: 08-MAR-22	
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	+/-1.18	1.63	3.00	pCi/L			JXC9	03/31/22	1039	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.47	+/-1.22			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.805	+/-0.303	0.212	1.00	pCi/L			LXP1	03/23/22	1026	2238657	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

Certificate of Analysis

Report Date: April 4, 2022

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: AF27213	Project: SOOP00119
Sample ID: 572527003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 07-MAR-22 10:37	
Receive Date: 08-MAR-22	
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		5.83	+/-1.66	1.98	3.00	pCi/L			JXC9	03/31/22	1039	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		8.15	+/-1.74			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.32	+/-0.523	0.281	1.00	pCi/L			LXP1	03/23/22	1026	2238657	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"			69.9	(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

QC Summary

Report Date: April 4, 2022

Page 1 of 2

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

Workorder: 572527

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2238666										
QC1205036858	572251001	DUP									
Radium-228		3.88		3.94	pCi/L	1.46		(0% - 100%)	JXC9	03/31/22	10:37
	Uncertainty	+/-1.33		+/-1.30							
QC1205036859	LCS										
Radium-228	46.6			40.0	pCi/L		86	(75%-125%)		03/31/22	10:37
	Uncertainty			+/-3.81							
QC1205036857	MB										
Radium-228				2.03	pCi/L					03/31/22	10:37
	Uncertainty			+/-1.27							
Rad Ra-226											
Batch	2238657										
QC1205036840	572251001	DUP									
Radium-226		2.77		2.70	pCi/L	2.27		(0%-20%)	LXPI	03/23/22	10:26
	Uncertainty	+/-0.605		+/-0.521							
QC1205036842	LCS										
Radium-226	26.4			23.2	pCi/L		87.8	(75%-125%)		03/23/22	10:26
	Uncertainty			+/-1.56							
QC1205036839	MB										
Radium-226			U	0.412	pCi/L					03/23/22	10:26
	Uncertainty			+/-0.306							
QC1205036841	572251001	MS									
Radium-226	133	2.77		104	pCi/L		76.6	(75%-125%)		03/23/22	10:26
	Uncertainty	+/-0.605		+/-7.59							

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.

GEL LABORATORIES LLC

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

QC Summary

Workorder: 572527

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H		Analytical holding time was exceeded									
J		See case narrative for an explanation									
J		Value is estimated									
K		Analyte present. Reported value may be biased high. Actual value is expected to be lower.									
L		Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
M		M if above MDC and less than LLD									
M		REMP Result > MDC/CL and < RDL									
N/A		RPD or %Recovery limits do not apply.									
NI		See case narrative									
ND		Analyte concentration is not detected above the detection limit									
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.									
UI		Gamma Spectroscopy--Uncertain identification									
UJ		Gamma Spectroscopy--Uncertain identification									
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		Other specific qualifiers were required to properly define the results. Consult case narrative.									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h		Preparation or preservation holding time was exceeded									

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 #: 572527

Radiochemistry

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2238666

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
572527001	AF27228
572527002	AF27223
572527003	AF27213
1205036857	Method Blank (MB)
1205036858	572251001(AF27207) Sample Duplicate (DUP)
1205036859	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 were non-homogenous matrix. Samples contain sedimentation.

Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205036857 (MB)	Radium-228	Result: 2.03 pCi/L > MDA: 1.91 pCi/L <= RDL: 3.00 pCi/L

Technical Information

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: 2238657

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
572527001	AF27228
572527002	AF27223
572527003	AF27213
1205036839	Method Blank (MB)
1205036840	572251001(AF27207) Sample Duplicate (DUP)
1205036841	572251001(AF27207) Matrix Spike (MS)
1205036842	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 were non-homogenous matrix.

Technical Information

Recounts

Samples 1205036839 (MB) and 1205036842 (LCS) were degassed and recounted to verify sample results. The recount results are similar to the original results. Original results are reported

Miscellaneous Information

Additional Comments

The matrix spike, 1205036841 (AF27207MS), 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

572527



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 121567 / JM02.09.G01 / 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
AF27228	WLF-A1-5	3/3/22	1148	BRT BSB	2	P	G	GW	2		X	X	X
223	WLF-A1-1	1	1306										
213	WAP-20	3/7/22	1037										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	35594	3/8/22	0931	<i>[Signature]</i>	GEL	3/8/22	0931
<i>[Signature]</i>	666	3/8/22	1706	<i>[Signature]</i>	GEL	3/8/22	1706

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			Nutrients <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"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> Gypsum(all below) <input type="checkbox"/> AIM <input type="checkbox"/> IDC <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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> Ar <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Total Oil Qual <input type="checkbox"/> Minerals <input type="checkbox"/> Loss <input type="checkbox"/> Acidity <input type="checkbox"/> Distillate Solvent <input type="checkbox"/> IBP <input type="checkbox"/> Distillate Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Early Oil <input type="checkbox"/> Metals an on <input type="checkbox"/> Cu, Fe, Ni, Pb <input type="checkbox"/> Hg <input type="checkbox"/> TX <input type="checkbox"/> OTHER
--	--	--	--	---	--	---	--	--

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP		SDG/AR/COC/Work Order: 572527	
Received By: STACY BOONE		Date Received: MARCH 9, 2022	
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): _____ 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	No
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?	/	/
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials NRG Date 3/10/22 Page 1 of 1

List of current GEL Certifications as of 04 April 2022

State	Certification
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	SC000122021-1
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	2019-165
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	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



Laboratory Report

Client	Santee Cooper Sherri Brown 1 Riverwood Dr. Moncks Corner, SC 29461	Project:	Ground Water
		Work Order:	22H0795
		Received:	08/12/2022 09:20

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on August 12, 2022. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Lauren Hollister, your Project Manager, at lhollister@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Lauren Hollister
Project Manager

This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.



*South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880*

Certificate of Analysis

Client Santee Cooper
Sherri Brown
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Received: 08/12/2022 09:20

Sample Number	Sample Description	Matrix	Sampled	Type
22H0795-01	AF39101 Pen Creek 1	Surface Water	07/12/22 09:45	Grab
22H0795-02	AF39102 Low Turk	Surface Water	07/12/22 10:24	Grab
22H0795-03	AF39103 Mid Turk	Surface Water	07/12/22 10:31	Grab
22H0795-04	AF39104 Up Turk	Surface Water	07/12/22 10:45	Grab
22H0795-05	AF39105 Pen Creek 2	Surface Water	07/12/22 11:30	Grab
22H0795-06	AF40205 STI-2	Ground Water	08/03/22 11:25	Grab
22H0795-07	AF40207 STI-4A	Ground Water	08/03/22 12:29	Grab
22H0795-08	AF40208 STI-5	Ground Water	08/03/22 13:28	Grab
22H0795-09	AF40206 STI-3	Ground Water	08/03/22 14:22	Grab
22H0795-10	AF40204 STI-1	Ground Water	08/03/22 15:24	Grab
22H0795-11	AF41630 WLF-A2-1	Ground Water	08/08/22 10:54	Grab
22H0795-12	AF41631 WLF-A2-1 DUP	Ground Water	08/08/22 10:59	Grab
22H0795-13	AF41632 WLF-A2-2	Ground Water	08/08/22 12:15	Grab
22H0795-14	AF41640 WLF-A2-6	Ground Water	08/08/22 13:25	Grab
22H0795-15	AF41635 WLF-A1-2	Ground Water	08/08/22 14:25	Grab
22H0795-16	AF41636 WLF-A1-3	Ground Water	08/08/22 15:27	Grab
22H0795-17	AF41633 WBW-A1-1	Ground Water	08/09/22 10:28	Grab
22H0795-18	AF41637 WLF-A1-4	Ground Water	08/09/22 13:59	Grab
22H0795-19	AF41638 WLF-A1-4 DUP	Ground Water	08/09/22 14:04	Grab
22H0795-20	AF41639 WLF-A1-5	Ground Water	08/09/22 11:38	Grab
22H0795-21	AF41634 WLF-A1-1	Ground Water	08/09/22 12:51	Grab
22H0795-22	AF41641 WAP-7	Ground Water	08/09/22 14:55	Grab



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Case Narrative

Revised Report.

Revised report to include all metals results. This report replaces the one generated on 9/14/22 at 16:42.



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Data

Sample Number 22H0795-01
Sample Description AF39101 Pen Creek 1 collected on 07/12/22 09:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.010	mg/L	2.00	09/09/22 23:14	EPA 6020B	X	JIP	B2H1696	RC-G
Lithium	38	10	ug/L	1.00	08/16/22 18:09	EPA 6010D	S1	CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:09	EPA 6010D		CAL	B2H1705	RC-G
Rebatch Sample Number: 22H0795-01RE1										
Lithium	38	10	ug/L	1.00	09/01/22 12:12	EPA 6010D		KTH	B2H2214	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	09/09/22 23:19	EPA 6020B	X	JIP	B2H1696	RC-G

Sample Number 22H0795-02
Sample Description AF39102 Low Turk collected on 07/12/22 10:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:49	EPA 6020B		JIP	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:15	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-03
Sample Description AF39103 Mid Turk collected on 07/12/22 10:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:54	EPA 6020B		JIP	B2H1696	RC-G
Lithium	12	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:20	EPA 6020B		JIP	B2H1696	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-04
Sample Description AF39104 Up Turk collected on 07/12/22 10:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:59	EPA 6020B		JIP	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:25	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-05
Sample Description AF39105 Pen Creek 2 collected on 07/12/22 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:04	EPA 6020B		JIP	B2H1696	RC-G
Lithium	43	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:30	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-06
Sample Description AF40205 S'TI-2 collected on 08/03/22 11:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:45	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:04	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.005	mg/L	1.00	09/16/22 16:14	EPA 6020B		JIP	B2H1696	RC-G
Iron	0.21	0.050	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 21:29	EPA 6020B		JIP	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:16	EPA 6020B		JIP	B2H2227	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-07
Sample Description AF40207 STI-4A collected on 08/03/22 12:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:39	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	0.112	0.005	mg/L	1.00	08/26/22 23:17	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.27	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.005	mg/L	1.00	09/16/22 16:28	EPA 6020B		JIP	B2H1696	RC-G
Iron	31	2.5	mg/L	50.0	08/16/22 21:07	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 22:07	EPA 6020B		JIP	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:19	EPA 6020B		JIP	B2H2227	RC-G

Sample Number 22H0795-08
Sample Description AF40208 STI-5 collected on 08/03/22 13:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:48	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:23	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.034	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:39	EPA 6020B	X	JIP	B2H1696	RC-G
Iron	24	0.25	mg/L	5.00	08/16/22 21:18	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:24	EPA 6020B	X	JIP	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6020B		JIP	B2H2227	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-09
Sample Description AF40206 STI-3 collected on 08/03/22 14:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:51	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:28	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.020	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:44	EPA 6020B	X	JIP	B2H1696	RC-G
Iron	2.6	0.25	mg/L	5.00	08/16/22 21:58	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:29	EPA 6020B	X	JIP	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 13:52	EPA 6020B		JIP	B2H2227	RC-G

Sample Number 22H0795-10
Sample Description AF40204 STI-1 collected on 08/03/22 15:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:54	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:33	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.025	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:49	EPA 6020B	X	JIP	B2H1696	RC-G
Iron	0.31	0.050	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:34	EPA 6020B	X	JIP	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:25	EPA 6020B		JIP	B2H2227	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-11
Sample Description AF41630 WLF-A2-1 collected on 08/08/22 10:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:57	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.109	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.062	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Beryllium	ND	0.002	mg/L	5.00	09/16/22 21:54	EPA 6020B	X	JIP	B2H1696	RC-G
Boron	1400	15	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Calcium	89	2.5	mg/L	50.0	08/16/22 22:36	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:54	EPA 6020B	X	JIP	B2H1696	RC-G
Cobalt	ND	0.005	mg/L	5.00	09/16/22 21:54	EPA 6020B	X	JIP	B2H1696	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.7	0.050	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lithium	37	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:38	EPA 6020B	X	JIP	B2H1696	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:37	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-12
Sample Description AF41631 WLF-A2-1 DUP collected on 08/08/22 10:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 10:05	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.107	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.058	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Beryllium	ND	0.002	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	JIP	B2H1696	RC-G
Boron	1300	15	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Calcium	81	2.5	mg/L	50.0	08/16/22 22:39	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	JIP	B2H1696	RC-G
Cobalt	ND	0.005	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	JIP	B2H1696	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.6	0.050	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lithium	34	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.025	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	JIP	B2H1696	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-13
Sample Description AF41632 WLF-A2-2 collected on 08/08/22 12:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:31	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.289	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Beryllium	ND	0.002	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Boron	2100	15	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Calcium	150	2.5	mg/L	50.0	08/16/22 23:20	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Cobalt	ND	0.005	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Iron	4.2	0.050	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lithium	140	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.025	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G

Sample Number 22H0795-14
Sample Description AF41640 WLF-A2-6 collected on 08/08/22 13:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	380	15	ug/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Calcium	130	2.5	mg/L	50.0	08/16/22 23:24	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.47	0.050	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	7.6	0.25	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.059	0.010	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	5.2	0.10	mg/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Sodium	5.5	0.50	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	0.47	0.050	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.060	0.020	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-15
Sample Description AF41635 WLF-A1-2 collected on 08/08/22 14:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	120	15	ug/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Calcium	33	2.5	mg/L	50.0	08/17/22 00:04	EPA 6010D		CAL	B2H1705	RC-G
Iron	3.4	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	0.87	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.034	0.010	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	0.47	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.2	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G

Dissolved Metals

Iron, Dissolved	3.6	0.050	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.037	0.020	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G

Sample Number 22H0795-16
Sample Description AF41636 WLF-A1-3 collected on 08/08/22 15:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	170	15	ug/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Calcium	18	0.25	mg/L	5.00	08/17/22 00:15	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.48	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Magnesium	0.49	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.023	0.010	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Potassium	0.54	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.3	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G

Dissolved Metals

Iron, Dissolved	0.46	0.050	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G
Manganese, Dissolved	0.022	0.020	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-17
Sample Description AF41633 WBW-A1-1 collected on 08/09/22 10:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	56	15	ug/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Calcium	92	2.5	mg/L	50.0	08/17/22 17:21	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.9	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	3.4	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.048	0.010	mg/L	1.00	08/17/22 17:28	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	5.0	0.10	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Sodium	14	0.50	mg/L	5.00	08/17/22 17:25	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	3.8	0.050	mg/L	1.00	08/17/22 19:37	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.049	0.020	mg/L	1.00	08/17/22 19:37	EPA 6010D	Z	KTH	B2H1706	RC-G

Sample Number 22H0795-18
Sample Description AF41637 WLF-A1-4 collected on 08/09/22 13:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	270	15	ug/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Calcium	93	2.5	mg/L	50.0	08/17/22 17:58	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.089	0.010	mg/L	1.00	08/17/22 18:05	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.6	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	2.6	0.050	mg/L	1.00	08/17/22 19:48	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.089	0.020	mg/L	1.00	08/17/22 19:48	EPA 6010D	Z	KTH	B2H1706	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-19
Sample Description AF41638 WLF-A1-4 DUP collected on 08/09/22 14:04

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	260	15	ug/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Calcium	89	2.5	mg/L	50.0	08/17/22 18:15	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.9	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.096	0.010	mg/L	1.00	08/17/22 18:22	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.8	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	2.8	0.050	mg/L	1.00	08/17/22 20:11	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.11	0.020	mg/L	1.00	08/17/22 20:11	EPA 6010D	Z	KTH	B2H1706	RC-G

Sample Number 22H0795-20
Sample Description AF41639 WLF-A1-5 collected on 08/09/22 11:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	1800	15	ug/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Calcium	310	25	mg/L	500	08/17/22 18:39	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.8	0.050	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	30	2.5	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G
Manganese	1.1	0.010	mg/L	1.00	08/17/22 18:50	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	8.7	0.10	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Sodium	23	5.0	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	3.0	0.050	mg/L	1.00	08/17/22 20:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	1.1	0.020	mg/L	1.00	08/17/22 20:22	EPA 6010D	Z	KTH	B2H1706	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Number 22H0795-21
Sample Description AF41634 WLF-A1-1 collected on 08/09/22 12:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	910	15	ug/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Calcium	390	25	mg/L	500	08/17/22 14:28	EPA 6010D		KTH	B2H1714	RC-G
Iron	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.93	0.010	mg/L	1.00	08/17/22 14:38	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	5.7	0.10	mg/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Sodium	9.5	0.50	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G

Dissolved Metals

Iron, Dissolved	9.5	2.5	mg/L	50.0	08/17/22 18:56	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.96	0.020	mg/L	1.00	08/17/22 19:00	EPA 6010D	Z	KTH	B2H1714	RC-G

Sample Number 22H0795-22
Sample Description AF41641 WAP-7 collected on 08/09/22 14:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	4000	15	ug/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Calcium	690	25	mg/L	500	08/17/22 14:45	EPA 6010D		KTH	B2H1714	RC-G
Iron	0.19	0.050	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	16	0.25	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.51	0.010	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Sodium	15	0.50	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G

Dissolved Metals

Iron, Dissolved	0.29	0.050	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.51	0.020	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1696 - EPA 3005A Mod

Blank (B2H1696-BLK1)

Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Chromium	ND	0.005	mg/L								RC-G
Cobalt	ND	0.001	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Thallium	ND	0.002	mg/L								RC-G

LCS (B2H1696-BS1)

Antimony	0.323	0.005	mg/L	0.200		161	80-120			L	RC-G
Arsenic	0.211	0.005	mg/L	0.200		106	80-120				RC-G
Chromium	0.224	0.005	mg/L	0.200		112	80-120				RC-G
Cobalt	0.224	0.001	mg/L	0.200		112	80-120				RC-G
Selenium	0.232	0.005	mg/L	0.200		116	80-120				RC-G
Thallium	0.199	0.002	mg/L	0.200		100	80-120				RC-G

Matrix Spike (B2H1696-MS1) Source: 22H0795-06

Antimony	0.367	0.005	mg/L	0.200	ND	183	75-125			Za	RC-G
Arsenic	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
Chromium	0.227	0.005	mg/L	0.200	ND	113	75-125				RC-G
Cobalt	0.218	0.001	mg/L	0.200	ND	109	75-125				RC-G
Selenium	0.212	0.005	mg/L	0.200	ND	104	75-125				RC-G
Thallium	0.197	0.002	mg/L	0.200	ND	98	75-125				RC-G

Matrix Spike (B2H1696-MS2) Source: 22H0795-07

Antimony	0.399	0.005	mg/L	0.200	ND	200	75-125			Za	RC-G
Arsenic	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
Chromium	0.221	0.005	mg/L	0.200	ND	110	75-125				RC-G
Cobalt	0.214	0.001	mg/L	0.200	ND	107	75-125				RC-G
Selenium	0.210	0.005	mg/L	0.200	ND	105	75-125				RC-G
Thallium	0.184	0.002	mg/L	0.200	ND	92	75-125				RC-G

Matrix Spike Dup (B2H1696-MSD1) Source: 22H0795-06

Antimony	0.361	0.005	mg/L	0.200	ND	180	75-125	2	20	Za	RC-G
Arsenic	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
Chromium	0.220	0.005	mg/L	0.200	ND	109	75-125	3	20		RC-G
Cobalt	0.216	0.001	mg/L	0.200	ND	108	75-125	1	20		RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1696 - EPA 3005A Mod

Matrix Spike Dup (B2H1696-MSD1) Source: 22H0795-06

Selenium	0.213	0.005	mg/L	0.200	ND	105	75-125	0.6	20		RC-G
Thallium	0.195	0.002	mg/L	0.200	ND	97	75-125	1	20		RC-G

Matrix Spike Dup (B2H1696-MSD2) Source: 22H0795-07

Antimony	0.374	0.005	mg/L	0.200	ND	187	75-125	7	20	Za	RC-G
Arsenic	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
Chromium	0.213	0.005	mg/L	0.200	ND	106	75-125	4	20		RC-G
Cobalt	0.208	0.001	mg/L	0.200	ND	104	75-125	3	20		RC-G
Selenium	0.217	0.005	mg/L	0.200	ND	108	75-125	3	20		RC-G
Thallium	0.174	0.002	mg/L	0.200	ND	87	75-125	5	20		RC-G

Batch B2H1705 - EPA 3005A

Blank (B2H1705-BLK1)

Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Manganese	ND	0.010	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H1705-BS1)

Barium	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Boron	500	15	ug/L	500		99	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Copper	0.51	0.005	mg/L	0.500		102	80-120				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

LCS (B2H1705-BS1)

Iron	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Lead	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	505	10	ug/L	500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G
Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		98	80-120				RC-G
Zinc	0.50	0.010	mg/L	0.500		101	80-120				RC-G

Matrix Spike (B2H1705-MS1)

Source: 22H0795-01

Barium	0.57	0.010	mg/L	0.500	0.074	99	75-125				RC-G
Boron	1300	15	ug/L	500	780	101	75-125				RC-G
Cadmium	0.52	0.004	mg/L	0.500	ND	104	75-125				RC-G
Copper	0.58	0.005	mg/L	0.500	0.020	111	75-125				RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125				RC-G
Lithium	756	10	ug/L	500	38	144	75-125			S1	RC-G
Manganese	0.86	0.010	mg/L	0.500	0.35	102	75-125				RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125				RC-G
Nickel	0.48	0.010	mg/L	0.500	0.014	93	75-125				RC-G
Zinc	0.47	0.010	mg/L	0.500	0.011	92	75-125				RC-G

Matrix Spike (B2H1705-MS2)

Source: 22H0795-02

Barium	0.57	0.010	mg/L	0.500	0.065	101	75-125				RC-G
Boron	3000	15	ug/L	500	2500	112	75-125				RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125				RC-G
Copper	0.53	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125				RC-G
Lithium	590	10	ug/L	500	11	116	75-125				RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	103	75-125				RC-G
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	18	0.10	mg/L	5.00	11	124	75-125				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

Matrix Spike (B2H1705-MS2) Source: 22H0795-02

Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
------	------	-------	------	-------	----	-----	--------	--	--	--	------

Matrix Spike Dup (B2H1705-MSD1) Source: 22H0795-01

Barium	0.58	0.010	mg/L	0.500	0.074	100	75-125	1	20		RC-G
Boron	1300	15	ug/L	500	780	103	75-125	1	20		RC-G
Cadmium	0.53	0.004	mg/L	0.500	ND	105	75-125	1	20		RC-G
Copper	0.59	0.005	mg/L	0.500	0.020	113	75-125	2	20		RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Lead	0.47	0.010	mg/L	0.500	ND	94	75-125	1	20		RC-G
Lithium	765	10	ug/L	500	38	145	75-125	1	20	S1	RC-G
Manganese	0.85	0.010	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G
Molybdenum	500	10	ug/L	500	ND	101	75-125	3	20		RC-G
Nickel	0.49	0.010	mg/L	0.500	0.014	95	75-125	1	20		RC-G
Zinc	0.48	0.010	mg/L	0.500	0.011	95	75-125	2	20		RC-G

Matrix Spike Dup (B2H1705-MSD2) Source: 22H0795-02

Barium	0.58	0.010	mg/L	0.500	0.065	102	75-125	0.6	20		RC-G
Boron	3100	15	ug/L	500	2500	121	75-125	2	20		RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125	0.3	20		RC-G
Copper	0.53	0.005	mg/L	0.500	ND	106	75-125	0.4	20		RC-G
Iron	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Lithium	590	10	ug/L	500	11	116	75-125	0.03	20		RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	1	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.09	20		RC-G
Potassium	18	0.10	mg/L	5.00	11	131	75-125	2	20	S1	RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125	0.2	20		RC-G

Batch B2H1706 - EPA 3005A

Blank (B2H1706-BLK1)

Boron	ND	15	ug/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1706 - EPA 3005A

Blank (B2H1706-BLK1)

Manganese	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G

LCS (B2H1706-BS1)

Boron	500	15	ug/L	500		99	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Iron	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Manganese	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		111	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		103	80-120				RC-G

Batch B2H1714 - EPA 3005A

Blank (B2H1714-BLK1)

Boron	ND	15	ug/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Manganese	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G

LCS (B2H1714-BS1)

Boron	500	15	ug/L	500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Iron	0.52	0.050	mg/L	0.500		103	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.52	0.10	mg/L	0.500		104	80-120				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1781 - EPA 7470A

Blank (B2H1781-BLK1)

Mercury	ND	0.20	ug/L								RC-G
---------	----	------	------	--	--	--	--	--	--	--	------

LCS (B2H1781-BS1)

Mercury	5.0	0.20	ug/L	5.00		101	80-120				RC-G
---------	-----	------	------	------	--	-----	--------	--	--	--	------

Matrix Spike (B2H1781-MS1) Source: 22H0795-13

Mercury	4.8	0.20	ug/L	5.00	ND	95	75-125				RC-G
---------	-----	------	------	------	----	----	--------	--	--	--	------

Matrix Spike Dup (B2H1781-MSD1) Source: 22H0795-13

Mercury	4.7	0.20	ug/L	5.00	ND	94	75-125	1	20		RC-G
---------	-----	------	------	------	----	----	--------	---	----	--	------

Batch B2H2214 - EPA 3005A

Blank (B2H2214-BLK1)

Lithium	ND	10	ug/L								RC-G
---------	----	----	------	--	--	--	--	--	--	--	------

LCS (B2H2214-BS1)

Lithium	497	10	ug/L	500		99	80-120				RC-G
---------	-----	----	------	-----	--	----	--------	--	--	--	------

Batch B2H2227 - EPA 3005A Mod

Blank (B2H2227-BLK1)

Silver	ND	0.010	mg/L								RC-G
--------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H2227-BS1)

Silver	0.062	0.010	mg/L	0.0600		103	80-120				RC-G
--------	-------	-------	------	--------	--	-----	--------	--	--	--	------

Matrix Spike (B2H2227-MS1) Source: 22H0795-09

Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125				RC-G
--------	-------	-------	------	--------	----	----	--------	--	--	--	------

Matrix Spike Dup (B2H2227-MSD1) Source: 22H0795-09

Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125	0.1	20		RC-G
--------	-------	-------	------	--------	----	----	--------	-----	----	--	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

**Dissolved Metals
Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1696 - EPA 3005A Mod

Blank (B2H1696-BLK1)

Arsenic, Dissolved	ND	0.005	mg/L								RC-G
--------------------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H1696-BS1)

Arsenic, Dissolved	0.211	0.005	mg/L	0.200		106	80-120				RC-G
--------------------	-------	-------	------	-------	--	-----	--------	--	--	--	------

Matrix Spike (B2H1696-MS1) Source: 22H0795-06

Arsenic, Dissolved	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
--------------------	-------	-------	------	-------	----	-----	--------	--	--	--	------

Matrix Spike (B2H1696-MS2) Source: 22H0795-07

Arsenic, Dissolved	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
--------------------	-------	-------	------	-------	-------	-----	--------	--	--	--	------

Matrix Spike Dup (B2H1696-MSD1) Source: 22H0795-06

Arsenic, Dissolved	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
--------------------	-------	-------	------	-------	----	-----	--------	-----	----	--	------

Matrix Spike Dup (B2H1696-MSD2) Source: 22H0795-07

Arsenic, Dissolved	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
--------------------	-------	-------	------	-------	-------	-----	--------	---	----	--	------

Batch B2H1705 - EPA 3005A

Blank (B2H1705-BLK1)

Iron, Dissolved	ND	0.050	mg/L								RC-G
-----------------	----	-------	------	--	--	--	--	--	--	--	------

Manganese, Dissolved	ND	0.020	mg/L								RC-G
----------------------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H1705-BS1)

Iron, Dissolved	0.50	0.050	mg/L	0.500		100	80-120				RC-G
-----------------	------	-------	------	-------	--	-----	--------	--	--	--	------

Manganese, Dissolved	0.51	0.020	mg/L	0.500		102	80-120				RC-G
----------------------	------	-------	------	-------	--	-----	--------	--	--	--	------

Matrix Spike (B2H1705-MS1) Source: 22H0795-01

Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
-----------------	-----	-------	------	-------	-----	----	--------	--	--	--	------

Manganese, Dissolved	0.86	0.020	mg/L	0.500	0.35	102	75-125				RC-G
----------------------	------	-------	------	-------	------	-----	--------	--	--	--	------

Matrix Spike (B2H1705-MS2) Source: 22H0795-02

Iron, Dissolved	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
-----------------	-----	-------	------	-------	-----	-----	--------	--	--	--	------

Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	103	75-125				RC-G
----------------------	------	-------	------	-------	------	-----	--------	--	--	--	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

**Dissolved Metals
Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

Matrix Spike Dup (B2H1705-MSD1) Source: 22H0795-01

Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Manganese, Dissolved	0.85	0.020	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G

Matrix Spike Dup (B2H1705-MSD2) Source: 22H0795-02

Iron, Dissolved	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 3005A ICP Digestion				
EPA 3005A	B2H1705	22H0795-01	08/15/2022 13:44	EDM
EPA 3005A	B2H2214	22H0795-01RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H1705	22H0795-02	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-03	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-04	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-05	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-06	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-07	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-08	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-09	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-10	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-11	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-12	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-13	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-14	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-15	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-16	08/15/2022 13:44	EDM
EPA 3005A	B2H1706	22H0795-17	08/15/2022 13:49	EDM
EPA 3005A	B2H1706	22H0795-18	08/15/2022 13:49	EDM
EPA 3005A	B2H1706	22H0795-19	08/15/2022 13:49	EDM
EPA 3005A	B2H1706	22H0795-20	08/15/2022 13:49	EDM
EPA 3005A	B2H1714	22H0795-21	08/15/2022 15:02	EDM
EPA 3005A	B2H1714	22H0795-22	08/15/2022 15:02	EDM



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

EPA 3005A ICPMS Digestion

EPA 3005A Mod	B2H1696	22H0795-01	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-02	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-03	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-04	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-05	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-06	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-06	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-07	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-07	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-08	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-08	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-09	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-09	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-10	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-10	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-11	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-12	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-13	08/15/2022 11:21	EDM

EPA 7470A Mercury Digestion

EPA 7470A	B2H1781	22H0795-06	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-07	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-08	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-09	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-10	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-11	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-12	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-13	08/16/2022 17:30	EDM



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/21/22 13:34

Data Qualifiers and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported
- RPD Relative Percent Difference
- L The analyte was not within control limits in the LCS.
- S1 The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
- X Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.
- Z The Dissolved and Total results are not significantly different and given the nature of the analyses, should be considered equal.
- Za The matrix spike and/or matrix spike duplicate was not within control limits - failed high. There are no detections in the sample.

Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105
RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

2240795



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	TOTAL AS, MO, LI	DISSOLVED AS
01 AF39101	PEN CREEK 1	7/12/22	0945	EG	2	P	G	SW	2	AS ^{200.3} 1000 RL < 5 PPB	1	1
02	LOW TURK		1024							MO } 6010 RL < 10 PPB		
03	MID TURK		1031							LI }		
04	UP TURK		1045									
05	PEN CREEK 2		1130									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	8/11/22	1500	<i>Fedex</i>			
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Fedex</i>		8/12/22	0920	<i>[Signature]</i>		8/12/22	0920
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
 TEMP (°C): 23.9 Initial: VAD
 Correct pH: Yes No
 Preservative Lot#: _____
 Date/Time/Init for preservative: _____

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

Nutrients

- TOC
- DOC
- TP/TPO4
- NH3-N
- F
- Cl
- NO2
- Br
- NO3
- SO4

MISC.

- BTEX
- Napthalene
- THM/HAA
- VOC
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Gypsum

- Wallboard
- Gypsum(all below)**
- AIM
- TOC
- Total metals
- Soluble Metals
- Purity (CaSO4)
- % Moisture
- Sulfites
- pH
- Chlorides
- Particle Size
- Sulfur

Coal

- Ultimate
- % Moisture
- Ash
- Sulfur
- BTUs
- Volatile Matter
- CHN
- Other Tests:**
- XRF Scan
- HGI
- Fineness
- Particulate Matter

Flyash

- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture
- NPDES**
- Oil & Grease
- Aa
- ESS

Oil

- Trans Oil Qual
- % Moisture
- Color
- Acids
- Dissolved Solids
- IPT
- Dissolved Gases
- Used Oil
- Flashpoint
- Metals in oil
- As Cd Cr Pb
- Hgt
- TX
- GOFER

Tracking: 8153 6791 4817

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

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	TOTAL METALS -SEE BELOW	
04 AF40205	STI-2	8/3/22	1125	DW BM	1	P	G	GW	2	6020 Ag	6010 Bq 7470 Hg	X
07 07	STI-4A		1229							As Cr	Cd Fe	
08 08	STI-5		1328							Se	Ni Pb	
09 06	STI-3		1422									
10 04	STI-1		1524							* PLEASE USE SHEET WHERE APPLICABLE.		

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35574	8/11/22	1500	Fedex			
Fedex		8/12/22	0920	<i>[Signature]</i>		8/12/22	0920

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

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

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

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
AF41630	WLF-A2-1	8/8/22	1054	DEW BB	1	P	G	GW	2	6010 6020	X
31	WLF-A2-1 DUP		1059							Ba Ni AS B K Co	
32	WLF-A2-2		1215							Cd Na Cr Ca Zn Sb	
										Cu Se Fe Ti	
										Pb Li	
										Mg Mo Hg-T47I	
										* PLEASE SEE SHEET FOR RLS.	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sj Brown</i>	35594	8/11/22	1500	<i>Felix</i>			
<i>Felix</i>		8/12/22	0920	<i>[Signature]</i>		8/12/22	0920

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 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 checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Bc <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 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Gulp <input type="checkbox"/> Acids <input type="checkbox"/> Dissolved Solids <input type="checkbox"/> BTU <input type="checkbox"/> Filtered Flashes Used Oil: <input type="checkbox"/> Flashpoint <input type="checkbox"/> Moisture <input type="checkbox"/> (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> VV <input type="checkbox"/> GULFER
---	--	---	--	---	--	--

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)



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 / 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 • Method # • Reporting limit • Misc. sample info • Any other notes	B, Ca, Fe, K, Na Mg, Mn DISSOLVED Fe Mn
14 AF 41640	WLF-A2-6	8/8/22	1325	DEW BB	2	P	G	GW	2	B, Ca, Fe, K, Mg, Na, 6010	1
15 35	WLF-A1-2		1425							Mn-6020	
16 36	WLF-A1-3		1527								
17 AF 41633	WBW-A1-1	8/9/22	1028							* PLEASE MEET LIMITS ON SHEET.	
18 37	WLF-A1-4		1359								
19 38	WLF-A1-4 DUP		1404								
20 39	WLF-A1-5		1138								
21 34	WLF-A1-1		1251								
22 41	WAP-7		1455								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	8/16/22	1500	<i>Fedex</i>			
<i>Fedex</i>		8/12/22	0920	<i>Thy...</i>		8/12/22	0920

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

METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input checked="" 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	Nutrients TOC DOC TP/TP04 NH3-N P Cl NO2 Br NO3 SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard Gypsum(all below) <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Paris (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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Qual Additives Color Acidity Sulfonate/Sulfate FT Dissolved Gases Used Oil Flashpoint Metals in oil (As, Cd, Cr, Ni, Pb, Hg) TX GREYER
---	--	--	--	---	--	---

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	---

Sample Receipt Verification

Client: Santee Cooper Date Received: 8/12/22 Work Order: 22H0795

Carrier Name: Client Other: _____ Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC included with samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Sample ID on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date / time on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Number of bottles on COC agrees with number of bottles received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample volume sufficient for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOA vials free of headspace (<6mm bubble)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Samples cooled? <small>Temp at receipt recorded on COC Temp measured with IR thermometer - SN: 97050067</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ice <input checked="" type="checkbox"/> Cold Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/>
Samples requiring pH preservation at proper pH? <small>Note: Samples for metals analysis may be preserved upon receipt in the lab.</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If in-house preservation used – record Lot #			
HCL		H ₃ PO ₄	
H ₂ SO ₄		NaOH	
HNO ₃		Other	

Comments: _____

Were non-conformance issues noted at sample receipt? **No**
 Non-Conformance issue other than noted above: _____



Laboratory Report

Client	Santee Cooper Linda Williams 1 Riverwood Dr. Moncks Corner, SC 29461	Project:	Ground Water
		Work Order:	22H1276
		Received:	08/24/2022 09:40

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on August 24, 2022. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Elisabeth Noblet, your Project Manager, at enoblet@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Elisabeth Noblet
Project Manager

This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.



*South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880*

Certificate of Analysis

Client Santee Cooper
Linda Williams
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Received: 08/24/2022 09:40

Sample Number	Sample Description	Matrix	Sampled	Type
22H1276-01	AF38157 WAP-2	Ground Water	07/06/22 12:51	Grab
22H1276-02	AF38161 WAP-6	Ground Water	07/11/22 12:55	Grab
22H1276-03	AF38163 WAP-8	Ground Water	07/12/22 11:53	Grab
22H1276-04	AF38165 WAP-10	Ground Water	07/13/22 13:22	Grab
22H1276-05	AF38166 WAP-10 DUP	Ground Water	07/13/22 13:27	Grab
22H1276-06	AF38164 WAP-9	Ground Water	07/13/22 14:34	Grab
22H1276-07	AF38160 WAP-5	Ground Water	07/14/22 13:54	Grab
22H1276-08	AF38167 WAP-11	Ground Water	07/18/22 11:06	Grab
22H1276-09	AF38158 WAP-3	Ground Water	07/18/22 12:01	Grab
22H1276-10	AF38159 WAP-4	Ground Water	07/18/22 15:22	Grab
22H1276-11	AF38190 WBW-1	Ground Water	07/06/22 10:23	Grab
22H1276-12	AF38156 WAP-1	Ground Water	07/06/22 11:37	Grab
22H1276-13	AF38168 WAP-12	Ground Water	07/06/22 14:06	Grab
22H1276-14	AF38169 WAP-12 DUP	Ground Water	07/06/22 14:11	Grab
22H1276-15	AF38184 WAP-22	Ground Water	07/07/22 13:44	Grab
22H1276-16	AF38187 WAP-25	Ground Water	07/11/22 10:30	Grab
22H1276-17	AF38188 WAP-26	Ground Water	07/11/22 11:44	Grab
22H1276-18	AF38189 WAP-26 DUP	Ground Water	07/11/22 11:46	Grab
22H1276-19	AF38162 WAP-7	Ground Water	07/13/22 10:00	Grab
22H1276-20	AF38185 WAP-23	Ground Water	07/13/22 12:25	Grab
22H1276-21	AF38186 WAP-24	Ground Water	07/13/22 15:31	Grab
22H1276-22	AF38183 WAP-21	Ground Water	07/14/22 10:45	Grab
22H1276-23	AF38177 WAP-16	Ground Water	07/14/22 12:48	Grab
22H1276-24	AF38170 WAP-13	Ground Water	07/18/22 13:12	Grab
22H1276-25	AF38176 WAP-15	Ground Water	07/18/22 14:30	Grab
22H1276-26	AF38171 WAP-14	Ground Water	07/20/22 14:12	Grab
22H1276-27	AF38172 WAP-14 DUP	Ground Water	07/20/22 14:17	Grab



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number	Sample Description	Matrix	Sampled	Type
22H1276-28	AF38173 WAP-14A	Ground Water	07/20/22 11:00	Grab
22H1276-29	AF38174 WAP-14B	Ground Water	07/20/22 12:20	Grab
22H1276-30	AF38175 WAP-14C	Ground Water	07/20/22 13:17	Grab
22H1276-31	AF38182 WAP-20	Ground Water	07/28/22 11:00	Grab
22H1276-32	AF38199 WLF-A2-2	Ground Water	07/17/22 11:37	Grab
22H1276-33	AF38198 WLF-A2-1	Ground Water	07/17/22 12:37	Grab
22H1276-34	AF38180 WAP-18	Ground Water	07/17/22 14:43	Grab
22H1276-35	AF38193 WLF-A1-2	Ground Water	07/11/22 13:38	Grab
22H1276-36	AF38194 WLF-A1-3	Ground Water	07/11/22 14:41	Grab
22H1276-37	AF38195 WLF-A1-4	Ground Water	07/11/22 15:35	Grab
22H1276-38	AF38196 WLF-A1-4DUP	Ground Water	07/11/22 15:40	Grab
22H1276-39	AF38191 WBW-A1-1	Ground Water	07/12/22 10:44	Grab
22H1276-40	AF38197 WLF-A1-5	Ground Water	07/12/22 13:58	Grab
22H1276-41	AF38192 WLF-A1-1	Ground Water	07/12/22 14:55	Grab
22H1276-42	AF38178 WAP-17	Ground Water	07/12/22 12:35	Grab
22H1276-43	AF38179 WAP-17 DUP	Ground Water	07/12/22 12:40	Grab
22H1276-44	AF38181 WAP-19	Ground Water	07/13/22 11:08	Grab
22H1276-45	AF38200 WLF-A2-6	Ground Water	07/14/22 11:50	Grab



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Case Narrative

Partial Report

Please note this report does not include results for metals run by method 6020: As, Be, Co, Cr, Sb, Se, and Tl on all samples except AF38178,79,81,92, and 200, which have results reported for As, Sb, Se and Tl.



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Data

Sample Number 22H1276-01
Sample Description AF38157 WAP-2 collected on 07/06/22 12:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.27	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Boron	6900	75	ug/L	5.00	08/26/22 10:50	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Calcium	400	25	mg/L	500	08/26/22 10:43	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.010	0.005	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Iron	30	2.5	mg/L	50.0	08/26/22 10:46	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Lithium	16	10	ug/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	58	2.5	mg/L	50.0	08/26/22 10:46	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Potassium	9.5	0.50	mg/L	5.00	08/26/22 10:50	EPA 6010D		KTH	B2H2183	RC-G
Sodium	110	5.0	mg/L	50.0	08/26/22 10:46	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-02
Sample Description AF38161 WAP-6 collected on 07/11/22 12:55

Parameter	Result	Reporting Limit	Units	DF	Analized	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.29	0.050	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.021	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Boron	44	15	ug/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Calcium	12	0.25	mg/L	5.00	08/26/22 11:27	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Iron	1.4	0.050	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	0.89	0.050	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Potassium	0.27	0.10	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Sodium	3.6	0.10	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-03
Sample Description AF38163 WAP-8 collected on 07/12/22 11:53

Parameter	Result	Reporting Limit	Units	DF	Analized	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.21	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Boron	8200	75	ug/L	5.00	08/26/22 11:44	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Calcium	530	25	mg/L	500	08/26/22 11:37	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.012	0.005	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Iron	5.6	0.25	mg/L	5.00	08/26/22 11:44	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Lithium	470	10	ug/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	89	2.5	mg/L	50.0	08/26/22 11:40	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	38	10	ug/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Potassium	27	5.0	mg/L	50.0	08/26/22 11:40	EPA 6010D		KTH	B2H2183	RC-G
Sodium	120	5.0	mg/L	50.0	08/26/22 11:40	EPA 6010D		KTH	B2H2183	RC-G
Zinc	0.012	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-04
Sample Description AF38165 WAP-10 collected on 07/13/22 13:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.21	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Boron	8300	75	ug/L	5.00	08/26/22 09:05	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Calcium	560	25	mg/L	500	08/26/22 08:45	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.011	0.005	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Iron	18	0.25	mg/L	5.00	08/26/22 09:05	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Lithium	26	10	ug/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	78	2.5	mg/L	50.0	08/26/22 08:55	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Potassium	24	0.50	mg/L	5.00	08/26/22 09:05	EPA 6010D		KTH	B2H2183	RC-G
Sodium	130	5.0	mg/L	50.0	08/26/22 08:55	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-05
Sample Description AF38166 WAP-10 DUP collected on 07/13/22 13:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.21	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Boron	8100	75	ug/L	5.00	08/26/22 09:58	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Calcium	490	50	mg/L	1,000	08/26/22 17:32	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.023	0.005	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Iron	17	0.25	mg/L	5.00	08/26/22 09:58	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Lithium	26	10	ug/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	71	2.5	mg/L	50.0	08/26/22 09:47	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Potassium	23	0.50	mg/L	5.00	08/26/22 09:58	EPA 6010D		KTH	B2H2183	RC-G
Sodium	110	5.0	mg/L	50.0	08/26/22 09:47	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Rebatch Sample Number: 22H1276-05RE1										
Lithium	28	10	ug/L	1.00	09/01/22 12:55	EPA 6010D		KTH	B2H2214	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-06
Sample Description AF38164 WAP-9 collected on 07/13/22 14:34

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.28	0.050	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.068	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Boron	3500	15	ug/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Calcium	160	2.5	mg/L	50.0	08/26/22 12:08	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Iron	5.3	0.25	mg/L	5.00	08/26/22 12:12	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Lithium	42	10	ug/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	29	2.5	mg/L	50.0	08/26/22 12:08	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Potassium	15	0.50	mg/L	5.00	08/26/22 12:12	EPA 6010D		KTH	B2H2183	RC-G
Sodium	22	5.0	mg/L	50.0	08/26/22 12:08	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-07
Sample Description AF38160 WAP-5 collected on 07/14/22 13:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Barium	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Boron	90	15	ug/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Calcium	62	2.5	mg/L	50.0	08/26/22 12:25	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.090	0.050	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	4.9	0.25	mg/L	5.00	08/26/22 12:29	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Potassium	6.3	0.50	mg/L	5.00	08/26/22 12:29	EPA 6010D		KTH	B2H2183	RC-G
Sodium	28	5.0	mg/L	50.0	08/26/22 12:25	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-08
Sample Description AF38167 WAP-11 collected on 07/18/22 11:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.083	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Boron	1800	15	ug/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Calcium	230	2.5	mg/L	50.0	08/26/22 12:53	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Iron	11	0.25	mg/L	5.00	08/26/22 12:56	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Lithium	13	10	ug/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	10	0.25	mg/L	5.00	08/26/22 12:56	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Potassium	3.1	0.10	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Sodium	39	5.0	mg/L	50.0	08/26/22 12:53	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-09
Sample Description AF38158 WAP-3 collected on 07/18/22 12:01

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.083	0.050	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.16	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Boron	1300	15	ug/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Calcium	210	2.5	mg/L	50.0	08/26/22 13:10	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Iron	20	0.25	mg/L	5.00	08/26/22 13:13	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Lithium	13	10	ug/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	12	0.25	mg/L	5.00	08/26/22 13:13	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.7	0.10	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Sodium	44	5.0	mg/L	50.0	08/26/22 13:10	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-10
Sample Description AF38159 WAP-4 collected on 07/18/22 15:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.087	0.050	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.037	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Boron	120	15	ug/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Calcium	52	2.5	mg/L	50.0	08/26/22 13:37	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Iron	1.2	0.050	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	4.1	0.050	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.4	0.10	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Sodium	14	0.50	mg/L	5.00	08/26/22 13:40	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-11
Sample Description AF38190 WBW-1 collected on 07/06/22 10:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.95	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.044	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Boron	58	15	ug/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Calcium	2.7	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.36	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	0.93	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Potassium	0.42	0.10	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Sodium	2.6	0.10	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-12
Sample Description AF38156 WAP-1 collected on 07/06/22 11:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	1.2	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.068	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Boron	26	15	ug/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Calcium	2.9	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Iron	4.1	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	1.2	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Potassium	0.79	0.10	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Sodium	4.2	0.10	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-13
Sample Description AF38168 WAP-12 collected on 07/06/22 14:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	2.3	0.050	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.019	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Boron	2000	15	ug/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Calcium	130	2.5	mg/L	50.0	08/26/22 14:38	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Iron	2.6	0.050	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	18	0.25	mg/L	5.00	08/26/22 14:41	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Potassium	6.8	0.50	mg/L	5.00	08/26/22 14:41	EPA 6010D		KTH	B2H2183	RC-G
Sodium	32	5.0	mg/L	50.0	08/26/22 14:38	EPA 6010D		KTH	B2H2183	RC-G
Zinc	0.018	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-14
Sample Description AF38169 WAP-12 DUP collected on 07/06/22 14:11

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	2.4	0.050	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.020	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Boron	2100	15	ug/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Calcium	130	2.5	mg/L	50.0	08/26/22 15:05	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Iron	2.6	0.050	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	19	0.25	mg/L	5.00	08/26/22 15:08	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Potassium	7.2	0.50	mg/L	5.00	08/26/22 15:08	EPA 6010D		KTH	B2H2183	RC-G
Sodium	30	5.0	mg/L	50.0	08/26/22 15:05	EPA 6010D		KTH	B2H2183	RC-G
Zinc	0.019	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-15
Sample Description AF38184 WAP-22 collected on 07/07/22 13:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.081	0.050	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.25	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Boron	6400	75	ug/L	5.00	08/26/22 15:26	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Calcium	460	25	mg/L	500	08/26/22 15:19	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.012	0.005	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Iron	41	2.5	mg/L	50.0	08/26/22 15:22	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Lithium	95	10	ug/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	71	2.5	mg/L	50.0	08/26/22 15:22	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Potassium	30	0.50	mg/L	5.00	08/26/22 15:26	EPA 6010D		KTH	B2H2183	RC-G
Sodium	130	5.0	mg/L	50.0	08/26/22 15:22	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-16
Sample Description AF38187 WAP-25 collected on 07/11/22 10:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Barium	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Boron	21	15	ug/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Calcium	64	2.5	mg/L	50.0	08/26/22 15:50	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Iron	3.2	0.050	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	2.2	0.050	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.4	0.10	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Sodium	9.7	0.50	mg/L	5.00	08/26/22 15:53	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-17
Sample Description AF38188 WAP-26 collected on 07/11/22 11:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.15	0.050	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.042	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Boron	24	15	ug/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Calcium	20	0.25	mg/L	5.00	08/26/22 16:10	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.56	0.050	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Potassium	1.2	0.10	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Sodium	3.6	0.10	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-18
Sample Description AF38189 WAP-26 DUP collected on 07/11/22 11:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.15	0.050	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.041	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Boron	23	15	ug/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Calcium	19	0.25	mg/L	5.00	08/26/22 16:37	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.55	0.050	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Potassium	1.1	0.10	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Sodium	3.5	0.10	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G

Sample Number 22H1276-19
Sample Description AF38162 WAP-7 collected on 07/13/22 10:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.12	0.050	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.039	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Boron	4000	15	ug/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Calcium	870	25	mg/L	500	08/26/22 16:47	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.43	0.050	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	16	0.25	mg/L	5.00	08/26/22 16:54	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Sodium	15	0.50	mg/L	5.00	08/26/22 16:54	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-20
Sample Description AF38185 WAP-23 collected on 07/13/22 12:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.12	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Boron	1300	15	ug/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Calcium	240	2.5	mg/L	50.0	08/26/22 17:18	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Iron	8.5	0.25	mg/L	5.00	08/26/22 17:21	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Lithium	18	10	ug/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	12	0.25	mg/L	5.00	08/26/22 17:21	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.8	0.10	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Sodium	42	5.0	mg/L	50.0	08/26/22 17:18	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-21
Sample Description AF38186 WAP-24 collected on 07/13/22 15:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.052	0.050	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Barium	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Boron	300	15	ug/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Calcium	120	2.5	mg/L	50.0	09/01/22 18:33	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Iron	0.20	0.050	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	8.5	0.25	mg/L	5.00	08/30/22 11:27	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/30/22 11:37	EPA 6010D	S1	KTH	B2H2259	RC-G
Sodium	28	5.0	mg/L	50.0	08/30/22 11:17	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Rebatch Sample Number: 22H1276-21RE1										
Potassium	5.4	0.10	mg/L	1.00	09/01/22 13:16	EPA 6010D	S1	KTH	B2H2214	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-22
Sample Description AF38183 WAP-21 collected on 07/14/22 10:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.91	0.050	mg/L	1.00	08/30/22 12:42	EPA 6010D	S1	KTH	B2H2259	RC-G
Barium	0.031	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Boron	2500	15	ug/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Calcium	90	2.5	mg/L	50.0	09/01/22 18:46	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Iron	0.83	0.050	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	13	0.25	mg/L	5.00	08/30/22 12:18	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Potassium	10	0.50	mg/L	5.00	08/30/22 12:18	EPA 6010D		KTH	B2H2259	RC-G
Sodium	16	0.50	mg/L	5.00	08/30/22 12:18	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Rebatch Sample Number: 22H1276-22RE1										
Aluminum	0.72	0.050	mg/L	1.00	09/01/22 13:50	EPA 6010D	S1	KTH	B2H2214	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-23
Sample Description AF38177 WAP-16 collected on 07/14/22 12:48

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.19	0.050	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.069	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Boron	1500	15	ug/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Calcium	190	5.0	mg/L	100	09/01/22 18:50	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Iron	7.2	0.25	mg/L	5.00	08/30/22 13:09	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	19	0.25	mg/L	5.00	08/30/22 13:09	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Potassium	14	0.10	mg/L	1.00	09/01/22 15:50	EPA 6010D		KTH	B2H2259	RC-G
Sodium	130	5.0	mg/L	50.0	08/30/22 13:06	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-24
Sample Description AF38170 WAP-13 collected on 07/18/22 13:12

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.27	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Boron	3900	15	ug/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Calcium	430	25	mg/L	500	09/01/22 18:53	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Iron	62	2.5	mg/L	50.0	08/30/22 13:43	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	31	2.5	mg/L	50.0	08/30/22 13:43	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Potassium	3.7	0.10	mg/L	1.00	09/01/22 15:53	EPA 6010D		KTH	B2H2259	RC-G
Sodium	120	5.0	mg/L	50.0	08/30/22 13:43	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-25
Sample Description AF38176 WAP-15 collected on 07/18/22 14:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.16	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Boron	500	15	ug/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Calcium	53	2.5	mg/L	50.0	09/01/22 17:26	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Iron	13	0.25	mg/L	5.00	08/30/22 14:04	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Lithium	19	10	ug/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	8.7	0.25	mg/L	5.00	08/30/22 14:04	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Potassium	3.2	0.10	mg/L	1.00	09/01/22 15:57	EPA 6010D		KTH	B2H2259	RC-G
Sodium	18	0.50	mg/L	5.00	08/30/22 14:04	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-26
Sample Description AF38171 WAP-14 collected on 07/20/22 14:12

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.080	0.050	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.049	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Boron	8400	75	ug/L	5.00	08/30/22 14:31	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Calcium	990	25	mg/L	500	09/06/22 13:53	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Iron	ND	0.050	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	31	2.5	mg/L	50.0	08/30/22 14:27	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Potassium	23	0.10	mg/L	1.00	09/01/22 16:00	EPA 6010D		KTH	B2H2259	RC-G
Sodium	120	5.0	mg/L	50.0	08/30/22 14:27	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-27
Sample Description AF38172 WAP-14 DUP collected on 07/20/22 14:17

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.074	0.050	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.049	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Boron	8500	75	ug/L	5.00	08/30/22 14:48	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Calcium	890	25	mg/L	500	09/01/22 18:56	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.008	0.005	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Iron	ND	0.050	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	35	2.5	mg/L	50.0	08/30/22 14:45	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Potassium	22	0.10	mg/L	1.00	09/01/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Sodium	140	5.0	mg/L	50.0	08/30/22 14:45	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-28
Sample Description AF38173 WAP-14A collected on 07/20/22 11:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.061	0.050	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.089	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Boron	6200	75	ug/L	5.00	08/30/22 15:16	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Calcium	930	25	mg/L	500	09/01/22 19:00	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.007	0.005	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Iron	ND	0.050	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Lithium	38	10	ug/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	49	2.5	mg/L	50.0	08/30/22 15:12	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Potassium	19	0.10	mg/L	1.00	09/01/22 16:08	EPA 6010D		KTH	B2H2259	RC-G
Sodium	130	5.0	mg/L	50.0	08/30/22 15:12	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-29
Sample Description AF38174 WAP-14B collected on 07/20/22 12:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.055	0.050	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.15	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Boron	6400	75	ug/L	5.00	08/30/22 15:33	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Calcium	750	25	mg/L	500	09/01/22 19:03	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.006	0.005	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Iron	13	0.25	mg/L	5.00	08/30/22 15:33	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Lithium	11	10	ug/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	31	2.5	mg/L	50.0	08/30/22 15:29	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Potassium	9.3	0.10	mg/L	1.00	09/01/22 16:11	EPA 6010D		KTH	B2H2259	RC-G
Sodium	99	5.0	mg/L	50.0	08/30/22 15:29	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-30
Sample Description AF38175 WAP-14C collected on 07/20/22 13:17

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.080	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Boron	160	15	ug/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Calcium	160	5.0	mg/L	100	09/01/22 19:07	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Iron	6.7	0.25	mg/L	5.00	08/30/22 16:00	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Lithium	12	10	ug/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	8.6	0.25	mg/L	5.00	08/30/22 16:00	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Potassium	6.4	0.10	mg/L	1.00	09/01/22 16:18	EPA 6010D		KTH	B2H2259	RC-G
Sodium	71	5.0	mg/L	50.0	08/30/22 15:57	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-31
Sample Description AF38182 WAP-20 collected on 07/28/22 11:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	51	2.5	mg/L	50.0	08/30/22 16:14	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.090	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Boron	1300	15	ug/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Calcium	34	2.5	mg/L	50.0	09/01/22 19:10	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.011	0.005	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Iron	84	2.5	mg/L	50.0	08/30/22 16:14	EPA 6010D		KTH	B2H2259	RC-G
Lead	0.050	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Lithium	210	10	ug/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	12	0.25	mg/L	5.00	08/30/22 16:17	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	84	10	ug/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Nickel	0.018	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Potassium	5.6	0.10	mg/L	1.00	09/01/22 16:32	EPA 6010D		KTH	B2H2259	RC-G
Sodium	33	5.0	mg/L	50.0	08/30/22 16:14	EPA 6010D		KTH	B2H2259	RC-G
Zinc	0.040	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-32
Sample Description AF38199 WLF-A2-2 collected on 07/17/22 11:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.086	0.050	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.055	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Boron	1800	15	ug/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Calcium	130	2.5	mg/L	50.0	09/01/22 19:17	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.2	0.050	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Lithium	100	10	ug/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	4.1	0.050	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Potassium	4.7	0.10	mg/L	1.00	09/01/22 16:35	EPA 6010D		KTH	B2H2259	RC-G
Sodium	11	0.50	mg/L	5.00	08/30/22 16:45	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-33
Sample Description AF38198 WLF-A2-1 collected on 07/17/22 12:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.44	0.050	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.079	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Boron	1600	15	ug/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Calcium	99	2.5	mg/L	50.0	09/01/22 19:30	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Iron	1.6	0.050	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Lithium	41	10	ug/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	7.8	0.25	mg/L	5.00	08/30/22 17:02	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Potassium	6.0	0.10	mg/L	1.00	09/01/22 16:39	EPA 6010D		KTH	B2H2259	RC-G
Sodium	22	0.50	mg/L	5.00	08/30/22 17:02	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-34
Sample Description AF38180 WAP-18 collected on 07/17/22 14:43

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.24	0.050	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.076	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Boron	1700	15	ug/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Calcium	76	2.5	mg/L	50.0	09/01/22 19:34	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Iron	1.2	0.050	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Lithium	50	10	ug/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	5.8	0.25	mg/L	5.00	08/30/22 17:29	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	190	10	ug/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Potassium	7.6	0.10	mg/L	1.00	09/01/22 16:42	EPA 6010D		KTH	B2H2259	RC-G
Sodium	38	5.0	mg/L	50.0	08/30/22 17:25	EPA 6010D		KTH	B2H2259	RC-G
Zinc	0.015	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-35
Sample Description AF38193 WLF-A1-2 collected on 07/11/22 13:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	2.0	0.050	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.049	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Boron	110	15	ug/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Calcium	32	2.5	mg/L	50.0	09/01/22 19:37	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.2	0.050	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	0.74	0.050	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Potassium	0.49	0.10	mg/L	1.00	09/01/22 16:46	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.1	0.10	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-36
Sample Description AF38194 WLF-A1-3 collected on 07/11/22 14:41

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	3.1	0.050	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.036	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Boron	260	15	ug/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Calcium	18	0.50	mg/L	10.0	09/01/22 19:40	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Iron	0.51	0.050	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	0.47	0.050	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Potassium	0.57	0.10	mg/L	1.00	09/01/22 16:49	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.4	0.10	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-37
Sample Description AF38195 WLF-A1-4 collected on 07/11/22 15:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.14	0.050	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.036	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Boron	220	15	ug/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Calcium	76	2.5	mg/L	50.0	09/01/22 19:44	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Iron	2.6	0.050	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	1.4	0.050	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Potassium	1.3	0.10	mg/L	1.00	09/01/22 16:53	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.7	0.10	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-38
Sample Description AF38196 WLF-A1-4DUP collected on 07/11/22 15:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.13	0.050	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.035	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Boron	210	15	ug/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Calcium	79	2.5	mg/L	50.0	09/01/22 19:47	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Iron	2.5	0.050	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	1.3	0.050	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Potassium	1.3	0.10	mg/L	1.00	09/01/22 16:56	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.6	0.10	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-39
Sample Description AF38191 WBW-A1-1 collected on 07/12/22 10:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	1.0	0.050	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.13	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Boron	47	15	ug/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Calcium	76	2.5	mg/L	50.0	09/01/22 19:50	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.8	0.050	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	2.6	0.050	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Potassium	4.2	0.10	mg/L	1.00	09/01/22 17:03	EPA 6010D		KTH	B2H2259	RC-G
Sodium	13	0.50	mg/L	5.00	08/30/22 19:14	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-40
Sample Description AF38197 WLF-A1-5 collected on 07/12/22 13:58

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.037	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Boron	1900	15	ug/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Calcium	290	5.0	mg/L	100	09/01/22 19:54	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.0	0.050	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	32	2.5	mg/L	50.0	08/30/22 19:38	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Potassium	8.9	0.10	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Sodium	17	0.50	mg/L	5.00	08/30/22 19:41	EPA 6010D		KTH	B2H2259	RC-G
Zinc	0.023	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-41
Sample Description AF38192 WLF-A1-1 collected on 07/12/22 14:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.16	0.050	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Antimony	ND	0.005	mg/L	1.00	09/09/22 19:27	EPA 6020B	Z	JIP	B2H2325	RC-G
Arsenic	ND	0.005	mg/L	1.00	09/09/22 19:27	EPA 6020B		JIP	B2H2325	RC-G
Barium	0.037	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Boron	880	15	ug/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Cadmium	ND	0.004	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Calcium	310	25	mg/L	500	09/01/22 14:11	EPA 6010D		KTH	B2H2214	RC-G
Copper	ND	0.005	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Iron	11	0.25	mg/L	5.00	09/01/22 14:17	EPA 6010D		KTH	B2H2214	RC-G
Lead	ND	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Lithium	ND	10	ug/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Magnesium	9.8	0.25	mg/L	5.00	09/01/22 14:17	EPA 6010D		KTH	B2H2214	RC-G
Molybdenum	ND	10	ug/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Nickel	ND	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Potassium	5.5	0.10	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 19:27	EPA 6020B		JIP	B2H2325	RC-G
Sodium	9.2	0.50	mg/L	5.00	09/01/22 14:17	EPA 6010D		KTH	B2H2214	RC-G
Thallium	ND	0.001	mg/L	1.00	09/09/22 19:27	EPA 6020B		JIP	B2H2325	RC-G
Zinc	ND	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-42
Sample Description AF38178 WAP-17 collected on 07/12/22 12:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.075	0.050	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Antimony	ND	0.005	mg/L	1.00	09/09/22 20:04	EPA 6020B	Z	JIP	B2H2325	RC-G
Arsenic	0.095	0.005	mg/L	1.00	09/09/22 20:04	EPA 6020B		JIP	B2H2325	RC-G
Barium	0.041	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Boron	3800	15	ug/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Cadmium	ND	0.004	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Calcium	240	25	mg/L	500	09/01/22 14:41	EPA 6010D		KTH	B2H2214	RC-G
Copper	ND	0.005	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Iron	1.5	0.050	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Lead	ND	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Lithium	40	10	ug/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Magnesium	39	2.5	mg/L	50.0	09/01/22 14:55	EPA 6010D		KTH	B2H2214	RC-G
Molybdenum	25	10	ug/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Nickel	ND	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Potassium	17	0.10	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 20:04	EPA 6020B		JIP	B2H2325	RC-G
Sodium	64	5.0	mg/L	50.0	09/01/22 14:55	EPA 6010D		KTH	B2H2214	RC-G
Thallium	ND	0.001	mg/L	1.00	09/09/22 20:04	EPA 6020B		JIP	B2H2325	RC-G
Zinc	ND	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-43
Sample Description AF38179 WAP-17 DUP collected on 07/12/22 12:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.083	0.050	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Antimony	ND	0.005	mg/L	1.00	09/10/22 02:52	EPA 6020B	Z	JIP	B2H2327	RC-G
Arsenic	0.097	0.010	mg/L	2.00	09/09/22 23:58	EPA 6020B		JIP	B2H2327	RC-G
Barium	0.041	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Boron	4000	15	ug/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Calcium	250	25	mg/L	500	08/31/22 13:03	EPA 6010D		CAL	B2H2302	RC-G
Copper	ND	0.005	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Iron	1.5	0.050	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Lead	ND	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Lithium	40	10	ug/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Magnesium	37	2.5	mg/L	50.0	08/31/22 13:13	EPA 6010D		CAL	B2H2302	RC-G
Molybdenum	31	10	ug/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Nickel	ND	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Potassium	16	0.10	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:58	EPA 6020B		JIP	B2H2327	RC-G
Sodium	65	5.0	mg/L	50.0	09/09/22 11:07	EPA 6010D		KTH	B2H2302	RC-G
Thallium	ND	0.001	mg/L	1.00	09/10/22 02:52	EPA 6020B		JIP	B2H2327	RC-G
Zinc	ND	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-44
Sample Description AF38181 WAP-19 collected on 07/13/22 11:08

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	1.7	0.050	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Antimony	ND	0.005	mg/L	1.00	09/10/22 02:57	EPA 6020B	Z	JIP	B2H2327	RC-G
Arsenic	0.117	0.010	mg/L	2.00	09/10/22 00:03	EPA 6020B		JIP	B2H2327	RC-G
Barium	0.041	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Boron	4100	15	ug/L	1.00	08/31/22 14:22	EPA 6010D	S1	CAL	B2H2302	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Calcium	320	25	mg/L	500	08/31/22 13:51	EPA 6010D		CAL	B2H2302	RC-G
Copper	ND	0.005	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Iron	2.7	0.050	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Lead	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Lithium	770	10	ug/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Magnesium	45	2.5	mg/L	50.0	08/31/22 14:01	EPA 6010D		CAL	B2H2302	RC-G
Molybdenum	50	10	ug/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Nickel	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Potassium	21	0.10	mg/L	1.00	08/31/22 14:22	EPA 6010D	S1	CAL	B2H2302	RC-G
Selenium	ND	0.010	mg/L	2.00	09/10/22 00:03	EPA 6020B		JIP	B2H2327	RC-G
Sodium	39	5.0	mg/L	50.0	09/09/22 11:27	EPA 6010D		KTH	B2H2302	RC-G
Thallium	ND	0.001	mg/L	1.00	09/10/22 02:57	EPA 6020B		JIP	B2H2327	RC-G
Zinc	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Number 22H1276-45
Sample Description AF38200 WLF-A2-6 collected on 07/14/22 11:50

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.097	0.050	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Antimony	ND	0.005	mg/L	1.00	09/09/22 20:42	EPA 6020B	Z	JIP	B2H2327	RC-G
Arsenic	0.005	0.005	mg/L	1.00	09/09/22 20:42	EPA 6020B		JIP	B2H2327	RC-G
Barium	0.038	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Boron	350	15	ug/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Cadmium	ND	0.004	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Calcium	130	2.5	mg/L	50.0	09/01/22 15:12	EPA 6010D		KTH	B2H2214	RC-G
Copper	ND	0.005	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Iron	0.44	0.050	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Lead	ND	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Lithium	34	10	ug/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Magnesium	7.8	0.25	mg/L	5.00	09/01/22 15:15	EPA 6010D		KTH	B2H2214	RC-G
Molybdenum	ND	10	ug/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Nickel	ND	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Potassium	4.9	0.10	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 20:42	EPA 6020B		JIP	B2H2327	RC-G
Sodium	5.6	0.50	mg/L	5.00	09/01/22 15:15	EPA 6010D		KTH	B2H2214	RC-G
Thallium	ND	0.001	mg/L	1.00	09/09/22 20:42	EPA 6020B		JIP	B2H2327	RC-G
Zinc	ND	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2183 - EPA 3005A

Blank (B2H2183-BLK1)

Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H2183-BS1)

Aluminum	0.47	0.050	mg/L	0.500		95	80-120				RC-G
Barium	0.47	0.010	mg/L	0.500		95	80-120				RC-G
Boron	470	15	ug/L	500		95	80-120				RC-G
Cadmium	0.47	0.004	mg/L	0.500		94	80-120				RC-G
Calcium	0.50	0.050	mg/L	0.500		99	80-120				RC-G
Copper	0.48	0.005	mg/L	0.500		96	80-120				RC-G
Iron	0.47	0.050	mg/L	0.500		95	80-120				RC-G
Lead	0.48	0.010	mg/L	0.500		96	80-120				RC-G
Lithium	479	10	ug/L	500		96	80-120				RC-G
Magnesium	0.48	0.050	mg/L	0.500		96	80-120				RC-G
Molybdenum	460	10	ug/L	500		93	80-120				RC-G
Nickel	0.47	0.010	mg/L	0.500		94	80-120				RC-G
Potassium	5.2	0.10	mg/L	5.00		104	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		97	80-120				RC-G
Zinc	0.48	0.010	mg/L	0.500		96	80-120				RC-G

Matrix Spike (B2H2183-MS1)

Source: 22H1276-04

Aluminum	0.55	0.050	mg/L	0.500	ND	103	75-125				RC-G
Barium	0.70	0.010	mg/L	0.500	0.21	97	75-125				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2183 - EPA 3005A

Matrix Spike (B2H2183-MS1) Source: 22H1276-04

Boron	9200	15	ug/L	500	8300	170	75-125			S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	97	75-125				RC-G
Calcium	190	0.050	mg/L	0.500	560	NR	75-125			S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.011	103	75-125				RC-G
Iron	18	0.050	mg/L	0.500	18	25	75-125			S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	93	75-125				RC-G
Lithium	636	10	ug/L	500	26	122	75-125				RC-G
Magnesium	42	0.050	mg/L	0.500	78	NR	75-125			S3	RC-G
Molybdenum	480	10	ug/L	500	ND	96	75-125				RC-G
Nickel	0.46	0.010	mg/L	0.500	ND	93	75-125				RC-G
Potassium	35	0.10	mg/L	5.00	24	215	75-125			S3	RC-G
Zinc	0.46	0.010	mg/L	0.500	ND	92	75-125				RC-G

Matrix Spike (B2H2183-MS2) Source: 22H1276-05

Aluminum	0.54	0.050	mg/L	0.500	ND	101	75-125				RC-G
Barium	0.68	0.010	mg/L	0.500	0.21	94	75-125				RC-G
Boron	8800	15	ug/L	500	8100	142	75-125			S3	RC-G
Cadmium	0.47	0.004	mg/L	0.500	ND	95	75-125				RC-G
Calcium	180	0.050	mg/L	0.500	490	NR	75-125			S3	RC-G
Copper	0.51	0.005	mg/L	0.500	0.023	98	75-125				RC-G
Iron	17	0.050	mg/L	0.500	17	16	75-125			S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	91	75-125				RC-G
Lithium	613	10	ug/L	500	26	117	75-125				RC-G
Magnesium	41	0.050	mg/L	0.500	71	NR	75-125			S3	RC-G
Molybdenum	470	10	ug/L	500	ND	93	75-125				RC-G
Nickel	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Potassium	34	0.10	mg/L	5.00	23	215	75-125			S3	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	89	75-125				RC-G

Matrix Spike Dup (B2H2183-MSD1) Source: 22H1276-04

Aluminum	0.56	0.050	mg/L	0.500	ND	105	75-125	2	20		RC-G
Barium	0.70	0.010	mg/L	0.500	0.21	97	75-125	0.3	20		RC-G
Boron	9100	15	ug/L	500	8300	163	75-125	0.4	20	S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125	0.6	20		RC-G
Calcium	190	0.050	mg/L	0.500	560	NR	75-125	0.1	20	S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.011	104	75-125	0.2	20		RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2183 - EPA 3005A

Matrix Spike Dup (B2H2183-MSD1) Source: 22H1276-04

Iron	18	0.050	mg/L	0.500	18	9	75-125	0.4	20	S3	RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125	0.8	20		RC-G
Lithium	637	10	ug/L	500	26	122	75-125	0.1	20		RC-G
Magnesium	42	0.050	mg/L	0.500	78	NR	75-125	0.6	20	S3	RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125	2	20		RC-G
Nickel	0.47	0.010	mg/L	0.500	ND	94	75-125	0.9	20		RC-G
Potassium	35	0.10	mg/L	5.00	24	210	75-125	0.8	20	S3	RC-G
Zinc	0.46	0.010	mg/L	0.500	ND	92	75-125	0.5	20		RC-G

Matrix Spike Dup (B2H2183-MSD2) Source: 22H1276-05

Aluminum	0.55	0.050	mg/L	0.500	ND	104	75-125	2	20		RC-G
Barium	0.71	0.010	mg/L	0.500	0.21	99	75-125	4	20		RC-G
Boron	9400	15	ug/L	500	8100	245	75-125	6	20	S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	97	75-125	2	20		RC-G
Calcium	190	0.050	mg/L	0.500	490	NR	75-125	3	20	S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.023	100	75-125	3	20		RC-G
Iron	18	0.050	mg/L	0.500	17	217	75-125	6	20	S3	RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125	2	20		RC-G
Lithium	676	10	ug/L	500	26	130	75-125	10	20	S1	RC-G
Magnesium	42	0.050	mg/L	0.500	71	NR	75-125	3	20	S3	RC-G
Molybdenum	480	10	ug/L	500	ND	97	75-125	3	20		RC-G
Nickel	0.46	0.010	mg/L	0.500	ND	92	75-125	2	20		RC-G
Potassium	36	0.10	mg/L	5.00	23	261	75-125	7	20	S3	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	91	75-125	2	20		RC-G

Batch B2H2214 - EPA 3005A

Blank (B2H2214-BLK1)

Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2214 - EPA 3005A

Blank (B2H2214-BLK1)

Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H2214-BS1)

Aluminum	0.49	0.050	mg/L	0.500		98	80-120				RC-G
Barium	0.51	0.010	mg/L	0.500		103	80-120				RC-G
Boron	480	15	ug/L	500		97	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		100	80-120				RC-G
Calcium	0.50	0.050	mg/L	0.500		99	80-120				RC-G
Copper	0.49	0.005	mg/L	0.500		98	80-120				RC-G
Iron	0.59	0.050	mg/L	0.500		119	80-120				RC-G
Lead	0.52	0.010	mg/L	0.500		103	80-120				RC-G
Lithium	497	10	ug/L	500		99	80-120				RC-G
Magnesium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Molybdenum	500	10	ug/L	500		100	80-120				RC-G
Nickel	0.51	0.010	mg/L	0.500		103	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		111	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		102	80-120				RC-G
Zinc	0.52	0.010	mg/L	0.500		105	80-120				RC-G

Matrix Spike (B2H2214-MS3)

Source: 22H1276-05RE1

Lithium	654	10	ug/L	500	28	125	75-125			S1	RC-G
---------	-----	----	------	-----	----	-----	--------	--	--	----	------

Matrix Spike (B2H2214-MS4)

Source: 22H1276-21RE1

Potassium	11	0.10	mg/L	5.00	5.4	110	75-125				RC-G
-----------	----	------	------	------	-----	-----	--------	--	--	--	------

Matrix Spike (B2H2214-MS5)

Source: 22H1276-22RE1

Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125			S1	RC-G
----------	-----	-------	------	-------	------	-----	--------	--	--	----	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2214 - EPA 3005A

Matrix Spike Dup (B2H2214-MSD3) Source: 22H1276-05RE1

Lithium	643	10	ug/L	500	28	123	75-125	2	20		RC-G
---------	-----	----	------	-----	----	-----	--------	---	----	--	------

Matrix Spike Dup (B2H2214-MSD4) Source: 22H1276-21RE1

Potassium	12	0.10	mg/L	5.00	5.4	123	75-125	6	20		RC-G
-----------	----	------	------	------	-----	-----	--------	---	----	--	------

Matrix Spike Dup (B2H2214-MSD5) Source: 22H1276-22RE1

Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125	0.02	20	S1	RC-G
----------	-----	-------	------	-------	------	-----	--------	------	----	----	------

Batch B2H2259 - EPA 3005A

Blank (B2H2259-BLK1)

Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H2259-BS1)

Aluminum	0.49	0.050	mg/L	0.500		99	80-120				RC-G
Barium	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Boron	490	15	ug/L	500		98	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		99	80-120				RC-G
Copper	0.49	0.005	mg/L	0.500		99	80-120				RC-G
Iron	0.53	0.050	mg/L	0.500		106	80-120				RC-G
Lead	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	487	10	ug/L	500		97	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2259 - EPA 3005A

LCS (B2H2259-BS1)

Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.5	0.10	mg/L	5.00		110	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		101	80-120				RC-G
Zinc	0.52	0.010	mg/L	0.500		103	80-120				RC-G

Matrix Spike (B2H2259-MS1) Source: 22H1276-21

Aluminum	0.56	0.050	mg/L	0.500	0.052	102	75-125				RC-G
Barium	0.51	0.010	mg/L	0.500	ND	100	75-125				RC-G
Boron	820	15	ug/L	500	300	104	75-125				RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125				RC-G
Iron	0.75	0.050	mg/L	0.500	0.20	110	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Lithium	543	10	ug/L	500	ND	108	75-125				RC-G
Magnesium	8.7	0.050	mg/L	0.500	8.5	51	75-125			S3	RC-G
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	12	0.10	mg/L	5.00	5.6	126	75-125			S1	RC-G
Sodium	24	0.10	mg/L	0.500	28	NR	75-125			S3	RC-G
Zinc	0.52	0.010	mg/L	0.500	ND	104	75-125				RC-G

Matrix Spike (B2H2259-MS2) Source: 22H1276-22

Aluminum	1.6	0.050	mg/L	0.500	0.91	134	75-125			S1	RC-G
Barium	0.53	0.010	mg/L	0.500	0.031	100	75-125				RC-G
Boron	3000	15	ug/L	500	2500	106	75-125				RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125				RC-G
Iron	1.4	0.050	mg/L	0.500	0.83	105	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Lithium	574	10	ug/L	500	ND	115	75-125				RC-G
Magnesium	12	0.050	mg/L	0.500	13	NR	75-125			S3	RC-G
Molybdenum	510	10	ug/L	500	ND	102	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	15	0.10	mg/L	5.00	10	101	75-125				RC-G
Sodium	16	0.10	mg/L	0.500	16	NR	75-125			S3	RC-G
Zinc	0.51	0.010	mg/L	0.500	ND	102	75-125				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2259 - EPA 3005A

Matrix Spike Dup (B2H2259-MSD1) Source: 22H1276-21

Aluminum	0.56	0.050	mg/L	0.500	0.052	101	75-125	1	20		RC-G
Barium	0.51	0.010	mg/L	0.500	ND	101	75-125	0.4	20		RC-G
Boron	830	15	ug/L	500	300	105	75-125	0.6	20		RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125	0.3	20		RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125	0.3	20		RC-G
Iron	0.72	0.050	mg/L	0.500	0.20	105	75-125	4	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125	0.7	20		RC-G
Lithium	558	10	ug/L	500	ND	111	75-125	3	20		RC-G
Magnesium	8.8	0.050	mg/L	0.500	8.5	56	75-125	0.3	20	S3	RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	2	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.4	20		RC-G
Potassium	12	0.10	mg/L	5.00	5.6	127	75-125	0.4	20	S1	RC-G
Sodium	24	0.10	mg/L	0.500	28	NR	75-125	0.3	20	S3	RC-G
Zinc	0.52	0.010	mg/L	0.500	ND	103	75-125	0.3	20		RC-G

Matrix Spike Dup (B2H2259-MSD2) Source: 22H1276-22

Aluminum	1.6	0.050	mg/L	0.500	0.91	134	75-125	0.2	20	S1	RC-G
Barium	0.53	0.010	mg/L	0.500	0.031	100	75-125	0.2	20		RC-G
Boron	3000	15	ug/L	500	2500	111	75-125	0.9	20		RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Copper	0.51	0.005	mg/L	0.500	ND	101	75-125	0.2	20		RC-G
Iron	1.4	0.050	mg/L	0.500	0.83	105	75-125	0.01	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125	0.4	20		RC-G
Lithium	544	10	ug/L	500	ND	109	75-125	5	20		RC-G
Magnesium	12	0.050	mg/L	0.500	13	NR	75-125	0.9	20	S3	RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	0.9	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.1	20		RC-G
Potassium	15	0.10	mg/L	5.00	10	103	75-125	0.6	20		RC-G
Sodium	16	0.10	mg/L	0.500	16	NR	75-125	0.5	20	S3	RC-G
Zinc	0.51	0.010	mg/L	0.500	ND	102	75-125	0.2	20		RC-G

Batch B2H2302 - EPA 3005A

Blank (B2H2302-BLK1)

Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2302 - EPA 3005A

Blank (B2H2302-BLK1)

Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H2302-BS1)

Aluminum	0.49	0.050	mg/L	0.500		98	80-120				RC-G
Barium	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Boron	510	15	ug/L	500		101	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		100	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Copper	0.51	0.005	mg/L	0.500		102	80-120				RC-G
Iron	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Lead	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	493	10	ug/L	500		99	80-120				RC-G
Magnesium	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Molybdenum	500	10	ug/L	500		100	80-120				RC-G
Nickel	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Potassium	5.3	0.10	mg/L	5.00		106	80-120				RC-G
Sodium	0.53	0.10	mg/L	0.500		107	80-120				RC-G
Zinc	0.51	0.010	mg/L	0.500		101	80-120				RC-G

Duplicate (B2H2302-DUP1)

Source: 22H1276-43

Aluminum	0.081	0.050	mg/L		0.083			2	20		RC-G
Barium	0.041	0.010	mg/L		0.041			0.4	20		RC-G
Boron	4000	15	ug/L		4000			0.7	20		RC-G
Cadmium	ND	0.004	mg/L		ND				20		RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2302 - EPA 3005A

Duplicate (B2H2302-DUP1)

Source: 22H1276-43

Calcium	110	0.050	mg/L		250			78	20	P4	RC-G
Copper	ND	0.005	mg/L		ND				20		RC-G
Iron	1.5	0.050	mg/L		1.5			0.5	20		RC-G
Lead	ND	0.010	mg/L		ND				20		RC-G
Lithium	40	10	ug/L		40			0.5	20		RC-G
Magnesium	25	0.050	mg/L		37			36	20	P4	RC-G
Molybdenum	31	10	ug/L		31			2	20		RC-G
Nickel	ND	0.010	mg/L		ND				20		RC-G
Potassium	16	0.10	mg/L		16			0.5	20		RC-G
Sodium	67	5.0	mg/L		65			3	20		RC-G
Zinc	ND	0.010	mg/L		ND				20		RC-G

Matrix Spike (B2H2302-MS1)

Source: 22H1276-43

Aluminum	0.56	0.050	mg/L	0.500	0.083	94	75-125				RC-G
Barium	0.50	0.010	mg/L	0.500	0.041	92	75-125				RC-G
Boron	4400	15	ug/L	500	4000	84	75-125				RC-G
Cadmium	0.46	0.004	mg/L	0.500	ND	92	75-125				RC-G
Calcium	110	0.050	mg/L	0.500	250	NR	75-125			S3	RC-G
Copper	0.49	0.005	mg/L	0.500	ND	98	75-125				RC-G
Iron	1.9	0.050	mg/L	0.500	1.5	88	75-125				RC-G
Lead	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Lithium	582	10	ug/L	500	40	108	75-125				RC-G
Magnesium	25	0.050	mg/L	0.500	37	NR	75-125			S3	RC-G
Molybdenum	490	10	ug/L	500	31	92	75-125				RC-G
Potassium	22	0.10	mg/L	5.00	16	104	75-125				RC-G
Sodium	67	5.0	mg/L	0.500	65	365	75-125			S4	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G

Matrix Spike (B2H2302-MS2)

Source: 22H1276-44

Aluminum	2.3	0.050	mg/L	0.500	1.7	111	75-125				RC-G
Barium	0.53	0.010	mg/L	0.500	0.041	98	75-125				RC-G
Boron	4800	15	ug/L	500	4100	131	75-125			S1	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125				RC-G
Calcium	150	0.050	mg/L	0.500	320	NR	75-125			S3	RC-G
Copper	0.52	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.3	0.050	mg/L	0.500	2.7	113	75-125				RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2302 - EPA 3005A

Matrix Spike (B2H2302-MS2) Source: 22H1276-44

Lead	0.48	0.010	mg/L	0.500	ND	95	75-125				RC-G
Lithium	1370	10	ug/L	500	773	120	75-125				RC-G
Magnesium	31	0.050	mg/L	0.500	45	NR	75-125			S3	RC-G
Molybdenum	540	10	ug/L	500	50	98	75-125				RC-G
Nickel	0.49	0.010	mg/L	0.500	ND	99	75-125				RC-G
Potassium	28	0.10	mg/L	5.00	21	132	75-125			S1	RC-G
Sodium	52	5.0	mg/L	0.500	39	NR	75-125			S4	RC-G
Zinc	0.48	0.010	mg/L	0.500	ND	95	75-125				RC-G

Matrix Spike Dup (B2H2302-MSD2) Source: 22H1276-44

Aluminum	2.3	0.050	mg/L	0.500	1.7	118	75-125	1	20		RC-G
Barium	0.55	0.010	mg/L	0.500	0.041	101	75-125	3	20		RC-G
Boron	4900	15	ug/L	500	4100	145	75-125	1	20	S1	RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	101	75-125	3	20		RC-G
Calcium	150	0.050	mg/L	0.500	320	NR	75-125	0.4	20	S3	RC-G
Copper	0.54	0.005	mg/L	0.500	ND	108	75-125	3	20		RC-G
Iron	3.3	0.050	mg/L	0.500	2.7	118	75-125	0.8	20		RC-G
Lead	0.49	0.010	mg/L	0.500	ND	98	75-125	3	20		RC-G
Lithium	1390	10	ug/L	500	773	124	75-125	2	20		RC-G
Magnesium	31	0.050	mg/L	0.500	45	NR	75-125	0.1	20	S3	RC-G
Molybdenum	560	10	ug/L	500	50	103	75-125	4	20		RC-G
Nickel	0.51	0.010	mg/L	0.500	ND	101	75-125	2	20		RC-G
Potassium	28	0.10	mg/L	5.00	21	137	75-125	1	20	S1	RC-G
Sodium	47	5.0	mg/L	0.500	39	NR	75-125	9	20	S4	RC-G
Zinc	0.49	0.010	mg/L	0.500	ND	98	75-125	3	20		RC-G

Batch B2H2325 - EPA 3005A Mod

Blank (B2H2325-BLK1)

Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Thallium	ND	0.001	mg/L								RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2325 - EPA 3005A Mod

LCS (B2H2325-BS1)

Antimony	0.235	0.005	mg/L	0.200		117	80-120				RC-G
Arsenic	0.214	0.005	mg/L	0.200		107	80-120				RC-G
Selenium	0.207	0.005	mg/L	0.200		104	80-120				RC-G
Thallium	0.213	0.001	mg/L	0.200		107	80-120				RC-G

Matrix Spike (B2H2325-MS1) Source: 22H1276-41

Antimony	0.273	0.005	mg/L	0.200	ND	136	75-125			Z	RC-G
Arsenic	0.216	0.005	mg/L	0.200	ND	107	75-125				RC-G
Selenium	0.200	0.005	mg/L	0.200	ND	98	75-125				RC-G
Thallium	0.201	0.001	mg/L	0.200	ND	100	75-125				RC-G

Matrix Spike (B2H2325-MS2) Source: 22H1276-42

Antimony	0.270	0.005	mg/L	0.200	ND	135	75-125			Z	RC-G
Arsenic	0.298	0.005	mg/L	0.200	0.095	102	75-125				RC-G
Selenium	0.202	0.005	mg/L	0.200	ND	100	75-125				RC-G
Thallium	0.184	0.001	mg/L	0.200	ND	92	75-125				RC-G

Matrix Spike Dup (B2H2325-MSD1) Source: 22H1276-41

Antimony	0.276	0.005	mg/L	0.200	ND	138	75-125	1	20	Z	RC-G
Arsenic	0.211	0.005	mg/L	0.200	ND	105	75-125	2	20		RC-G
Selenium	0.199	0.005	mg/L	0.200	ND	98	75-125	0.6	20		RC-G
Thallium	0.205	0.001	mg/L	0.200	ND	102	75-125	2	20		RC-G

Matrix Spike Dup (B2H2325-MSD2) Source: 22H1276-42

Antimony	0.284	0.005	mg/L	0.200	ND	142	75-125	5	20	Z	RC-G
Arsenic	0.308	0.005	mg/L	0.200	0.095	107	75-125	3	20		RC-G
Selenium	0.212	0.005	mg/L	0.200	ND	105	75-125	5	20		RC-G
Thallium	0.197	0.001	mg/L	0.200	ND	98	75-125	7	20		RC-G

Batch B2H2327 - EPA 3005A Mod

Blank (B2H2327-BLK1)

Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Thallium	ND	0.001	mg/L								RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2327 - EPA 3005A Mod

LCS (B2H2327-BS1)

Antimony	0.237	0.005	mg/L	0.200		119	80-120				RC-G
Arsenic	0.218	0.005	mg/L	0.200		109	80-120				RC-G
Selenium	0.226	0.005	mg/L	0.200		113	80-120				RC-G
Thallium	0.206	0.001	mg/L	0.200		103	80-120				RC-G

Matrix Spike (B2H2327-MS1) Source: 22H1276-45

Antimony	0.268	0.005	mg/L	0.200	ND	133	75-125			Z	RC-G
Arsenic	0.216	0.005	mg/L	0.200	0.005	105	75-125				RC-G
Selenium	0.208	0.005	mg/L	0.200	ND	102	75-125				RC-G
Thallium	0.196	0.001	mg/L	0.200	ND	98	75-125				RC-G

Matrix Spike Dup (B2H2327-MSD1) Source: 22H1276-45

Antimony	0.264	0.005	mg/L	0.200	ND	131	75-125	1	20	Z	RC-G
Arsenic	0.212	0.005	mg/L	0.200	0.005	103	75-125	2	20		RC-G
Selenium	0.207	0.005	mg/L	0.200	ND	102	75-125	0.5	20		RC-G
Thallium	0.194	0.001	mg/L	0.200	ND	97	75-125	1	20		RC-G

Batch B2H2424 - EPA 3005A

Blank (B2H2424-BLK1)

Calcium	ND	0.050	mg/L								RC-G
---------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H2424-BS1)

Calcium	0.52	0.050	mg/L	0.500		105	80-120				RC-G
---------	------	-------	------	-------	--	-----	--------	--	--	--	------

Matrix Spike (B2H2424-MS1) Source: 22H1276-25

Calcium	44	0.25	mg/L	2.50	53	NR	75-125			S4	RC-G
---------	----	------	------	------	----	----	--------	--	--	----	------

Matrix Spike (B2H2424-MS2) Source: 22H1276-26

Calcium	1100	25	mg/L	250	990	45	75-125			S4	RC-G
---------	------	----	------	-----	-----	----	--------	--	--	----	------

Matrix Spike Dup (B2H2424-MSD1) Source: 22H1276-25

Calcium	45	0.25	mg/L	2.50	53	NR	75-125	2	20	S3	RC-G
---------	----	------	------	------	----	----	--------	---	----	----	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H2424 - EPA 3005A

Matrix Spike Dup (B2H2424-MSD2) Source: 22H1276-26

Calcium	1500	25	mg/L	250	990	199	75-125	30	20	P4, S4	RC-G
---------	------	----	------	-----	-----	-----	--------	----	----	--------	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 3005A ICP Digestion				
EPA 3005A	B2H2183	22H1276-01	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-02	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-03	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-04	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-05	08/25/2022 11:22	KTH
EPA 3005A	B2H2214	22H1276-05RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H2183	22H1276-06	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-07	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-08	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-09	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-10	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-11	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-12	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-13	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-14	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-15	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-16	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-17	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-18	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-19	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-20	08/25/2022 11:22	KTH
EPA 3005A	B2H2259	22H1276-21	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-21	08/31/2022 14:30	EDM
EPA 3005A	B2H2214	22H1276-21RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H2259	22H1276-22	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-22	08/31/2022 14:30	EDM
EPA 3005A	B2H2214	22H1276-22RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H2259	22H1276-23	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-23	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-24	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-24	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-25	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-25	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-26	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-26	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-27	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-27	08/31/2022 14:30	EDM



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

EPA 3005A	B2H2259	22H1276-28	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-28	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-29	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-29	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-30	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-30	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-31	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-31	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-32	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-32	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-33	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-33	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-34	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-34	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-35	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-35	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-36	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-36	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-37	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-37	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-38	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-38	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-39	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-39	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-40	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-40	08/31/2022 14:30	EDM
EPA 3005A	B2H2214	22H1276-41	08/28/2022 11:00	EDM
EPA 3005A	B2H2214	22H1276-42	08/28/2022 11:00	EDM
EPA 3005A	B2H2302	22H1276-43	08/29/2022 11:05	EDM
EPA 3005A	B2H2302	22H1276-44	08/29/2022 11:05	EDM
EPA 3005A	B2H2214	22H1276-45	08/28/2022 11:00	EDM

EPA 3005A ICPMS Digestion

EPA 3005A Mod	B2H2325	22H1276-41	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2325	22H1276-42	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2327	22H1276-43	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2327	22H1276-44	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2327	22H1276-45	08/29/2022 16:00	EDM



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H1276
Reported: 09/16/22 12:28

Data Qualifiers and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported
- RPD Relative Percent Difference
- P4 Estimated value - the sample / duplicate or matrix spike / spike duplicate results exceeded the calibration range. The RPD was not evaluated against the control limits.
- S1 The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
- S3 Estimated value - the spike result exceeded the calibration range. The spike recovery was not evaluated against the control limits.
- S4 The spike was diluted out due to the sample concentration. The spike recovery was not evaluated against the control limits.
- Z The matrix spike and/or matrix spike duplicate was not within the control limits - failed high. There are no detections in the sample.

Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105
RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

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 / JM02.08.G&I.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
-01 AF38157	WAP-2	7/6/22	1251	DEW BM	1	P	G	GW	2	SEE ATTACHED SHEET	X
-02 61	WAP-6	7/11/22	1255							FOR RLS. AND METHOD.	
-03 63	WAP-8	7/12/22	1153								
-04 65	WAP-10	7/13/22	1322								
-05 66	WAP-10 DUP		1327								
-06 64	WAP-9		1434								
-07 60	WAP-5	7/14/22	1354								
-08 67	WAP-11	7/18/22	1106								
-09 58	WAP-3	7/18/22	1201								
-10 59	WAP-4		1522								

Relinquished by: <u>JBrown</u>	Employee# <u>25594</u>	Date <u>8/22/22</u>	Time <u>1500</u>	Received by: <u>FedEx</u>	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by: <u>KJH</u>	Employee #	Date	Time
Relinquished by:	Employee#	Date <u>08/24/22</u>	Time <u>0940</u>	Received by:	Employee #	Date <u>8/24/22</u>	Time <u>0940</u>

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: VAB
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 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	Nutrients <input type="checkbox"/> TOC <input type="checkbox"/> BOC <input type="checkbox"/> TP/TP04 <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Oxidation Stab. <input type="checkbox"/> IP <input type="checkbox"/> Dissolved Chloride <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil <input type="checkbox"/> Ca, Cd, Cr, Ni, Pb <input type="checkbox"/> Hg <input type="checkbox"/> T3 <input type="checkbox"/> COCER
---	--	---	--	---	--	---

TRK# 8153 6791 4828

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)

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santecooper.com & sjbrown@santecooper.com

Chain of Custody



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 125916 / 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
-11 AF38190	WBW-1	7/6/22	1023	DEW BM	1	P	G	GW	2	SEE ATTACHED SHEET FOR RLS + METHOD.	X
-12 56	WAP-1	↓	1137	↓	↓	↓	↓	↓	↓		↓
-13 68	WAP-12	↓	1406	↓	↓	↓	↓	↓	↓		↓
-14 -14 VMS 8/24/22	69 WAP-12 DUP	↓	1411	↓	↓	↓	↓	↓	↓		↓
-15 84	WAP-22	7/7/22	1344	DEW DS	↓	↓	↓	↓	↓		↓
-16 -16 VMS 8/24/22	87 WAP-25	7/11/22	1030	DEW BM	↓	↓	↓	↓	↓		↓
-17 88	WAP-26	↓	1141	↓	↓	↓	↓	↓	↓		↓
-18 89	WAP-26 DUP	↓	1146	↓	↓	↓	↓	↓	↓		↓
-19 62	WAP-7	7/13/22	1000	↓	↓	↓	↓	↓	↓		↓
-20 -20 VMS 8/24/22											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sj Brown</i>	35594	8/22/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
FedEx		08/10/22		<i>KJZ</i>		08/24	
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: VMS
Correct pH: Yes No
Preservative Lot#: 0940
0949
← JA 08/24/22
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 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 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	Nutrients <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"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Qual. <input type="checkbox"/> Wax <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Distric. Strength <input type="checkbox"/> API <input type="checkbox"/> Dissolved Solids Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil <input type="checkbox"/> ASGC, G, N, Pb <input type="checkbox"/> DIB <input type="checkbox"/> IN <input type="checkbox"/> GORR
--	--	---	---	---	---	---

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

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 # <small>(Internal use only)</small>	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
-20 AF38185	WAP-23	7/13/22	1225	DEW BM	1	P	G	GW	2	SEE SHEET FOR RLO +	X
-21 86	WAP-24	↓	1531	↓	↓	↓	↓	↓	↓	METHOD	
-22 83	WAP-21	7/14/22	1045	↓	↓	↓	↓	↓	↓		
-23 77	WAP-16	↓	1248	↓	↓	↓	↓	↓	↓		
-24 70	WAP-13	7/18/22	1312	↓	↓	↓	↓	↓	↓		
25 76	WAP-15	↓	1430	↓	↓	↓	↓	↓	↓		
26 71	WAP-14	7/20/22	1412	DEW PJ	↓	↓	↓	↓	↓		
-27 72	WAP-14 DUP	↓	1417	↓	↓	↓	↓	↓	↓		

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35574	8/22/22	1530	FEDEX			
FEDEX		08/24	0940	KJM		08/24	0940
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
 TEMP (°C): 73.4 Initial: KAP
 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 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard Gypsum(all below) <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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans, Oil Qual. <input type="checkbox"/> Sulfonate <input type="checkbox"/> Lube <input type="checkbox"/> Acidity <input type="checkbox"/> Inorganic Sulfur <input type="checkbox"/> Chloride <input type="checkbox"/> Chloride <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As, Cr, Cu, Ni, Pb, Hg) TX OTHER
---	--	--	--	---	---	---

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



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	TOTAL METALS -SEE BELOW
-28 AF38173	WAP-14A	7/20/22	1100	DEW DJ	1	P	G	GW	2	SEE SHEET FOR RLS + METHOD.	X
-29 74	14B		1220								
-30 75	14C		1317								
-31 82	WAP-20	7/28/22	1100	DEW	1	P	C	GW	1		

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Unknown</i>	35594	8/22/22	1530	RedEx			
RedEx		08/24	0940	KJZ		08/24	0940

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: KAB
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 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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"/> Sulfides <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Qual. <input type="checkbox"/> % Ash/Slur Color Acidity Dissolved Oxygen (D.O.) Dissolved Gases Used Oil <input type="checkbox"/> Flashpoint Metals in oil (As, Cd, Cr, Hg, Pb) TA 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)

2241274

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santecooper.com & sjbrown@santecooper.com



Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 125715 / JM02.08.601.1 / 36500 Rerun request for any flagged QC: Yes No

Analysis Group

-32
-33
-34
-35
-36
-37
-38
-39
-40
-41

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
AF38199	WLF-A2-2	7/17/22	1137	DEW PJ	1	P	G	GW	2	SEE SHEET FOR RLS	X
98	WLF-A2-1		1237							+ METHOD.	
80	WAP-18		1443								
93	WLF-A1-2	7/11/22	1338	DEW BM							
94	-3		1441								
95	-4		1535								
96	-4 DUP		1540								
91	WBW-A1-1	7/12/22	1044								
97	WLF-A1-5		1358								
92	-1		1455								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Approx</i>	35594	8/22/22	1500	FedEx			
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
FedEx		08/24	0940	KJZ		08/24	0940
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: KAB
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 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	Nutrients <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"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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"/> pH <input type="checkbox"/> Sulfites <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Fuel Oil Qual <input type="checkbox"/> Additives <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Density <input type="checkbox"/> Viscosity <input type="checkbox"/> Flash Point <input type="checkbox"/> Sulfur <input type="checkbox"/> Water <input type="checkbox"/> Total Solids <input type="checkbox"/> Total Suspended Solids <input type="checkbox"/> Total Dissolved Solids <input type="checkbox"/> Total Petroleum Hydrocarbons <input type="checkbox"/> Polynuclear Aromatic Hydrocarbons <input type="checkbox"/> Heavy Metals <input type="checkbox"/> Copper <input type="checkbox"/> Lead <input type="checkbox"/> Nickel <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc <input type="checkbox"/> Cadmium <input type="checkbox"/> Chromium <input type="checkbox"/> Manganese <input type="checkbox"/> Selenium <input type="checkbox"/> Silver <input type="checkbox"/> Tin <input type="checkbox"/> Barium <input type="checkbox"/> Bismuth <input type="checkbox"/> Boron <input type="checkbox"/> Calcium <input type="checkbox"/> Cobalt <input type="checkbox"/> Iron <input type="checkbox"/> Magnesium <input type="checkbox"/> Molybdenum <input type="checkbox"/> Nickel <input type="checkbox"/> Nitrogen <input type="checkbox"/> Phosphorus <input type="checkbox"/> Potassium <input type="checkbox"/> Sodium <input type="checkbox"/> Sulfur <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc
---	--	--	---	---	---	---

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)

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to icwillia@santecooper.com & sibrown@santecooper.com



Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JMO2.08. 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	TOTAL METALS
-42 AF38178	WAP-17	7/12/22	1235	DEW BM	1	P	G	GW	2	SEE SHEET FOR RLS + METHOD.	X
-43 79	L 17 DUP	L	1240								
-44 81	WAP-19	7/13/22	1108								
-45 200	WLF-A2-6	7/14/22	1150								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35574	8/22/22	1500	FedEx			
FedEx		08/24	0940	KAZ		8/24	0940

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: VAB
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"/> Sc <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 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	Nutrients <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"/> BF <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard Gypsum(all below) <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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> In. Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Distillate amount <input type="checkbox"/> BTU <input type="checkbox"/> Ethanol/Gross <input type="checkbox"/> Used Oil <input type="checkbox"/> Phosphate <input type="checkbox"/> Metals in oil <input type="checkbox"/> (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> TSS <input type="checkbox"/> GUPPER
--	--	---	--	---	--	---

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 ICP	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium 6010 ICP	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron 6010 ICP	ug/L	---	10 to 15
Cadmium 6010 ICP	ug/L	5	0.5
Calcium 6010 ICP	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper 6010 ICP	mg/L	1	---
Iron 6010 ICP	ug/L	300	---
Lead 6010 ICP	ug/L	15	1
Lithium 6010 ICP	ug/L	40	5
Magnesium 6010 ICP	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum 6010 ICP	ug/L	100	5
Nickel 6010 ICP	ug/L	---	---
Potassium 6010 ICP	mg/L	---	---
Selenium	ug/L	50	5
Sodium 6010 ICP	mg/L	---	---
Thallium	ug/L	2	1
Zinc 6010 ICP	ug/L	5000	---

(if needed = ICPMS)



Sample Receipt Verification

Client: Santee Cooper Date Received: 8/24/22 Work Order: 22H01276

Carrier Name: FedEx Other: _____ Tracking Number: 8153 6791 4828

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC included with samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Sample ID on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date / time on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Number of bottles on COC agrees with number of bottles received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample volume sufficient for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOA vials free of headspace (<6mm bubble)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Samples cooled? Temp at receipt recorded on COC Temp measured with IR thermometer - SN: 97050067	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ice <input checked="" type="checkbox"/> Cold Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/>
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If in-house preservation used – record Lot #			
HCL		H ₃ PO ₄	
H ₂ SO ₄		NaOH	
HNO ₃		Other	

Comments: _____

Were non-conformance issues noted at sample receipt? **No**
Non-Conformance issue other than noted above: _____



July 25, 2022

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

Re: ABS Lab Analytical
Work Order: 586276

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 15, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

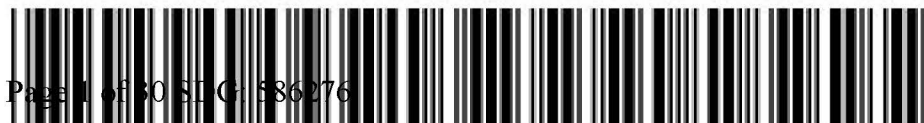
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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: 586276 GEL Work Order: 586276

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 See case narrative for an explanation
- 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 _____

Julie Robinson

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 25, 2022

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: AF38185 Project: SOOP00119
Sample ID: 586276001 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 12:25
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1007	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38186 Project: SOOP00119
Sample ID: 586276002 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 15:31
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1008	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38162 Project: SOOP00119
Sample ID: 586276003 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 10:00
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1010	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38187 Project: SOOP00119
Sample ID: 586276004 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 10:30
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1015	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38188 Project: SOOP00119
Sample ID: 586276005 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 11:41
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1017	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38189 Project: SOOP00119
Sample ID: 586276006 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 11:46
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1019	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38165 Project: SOOP00119
Sample ID: 586276007 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 13:22
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1020	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38166 Project: SOOP00119
Sample ID: 586276008 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 13:27
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1022	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38164 Project: SOOP00119
Sample ID: 586276009 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 14:34
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1024	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38181 Project: SOOP00119
Sample ID: 586276010 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 13-JUL-22 11:08
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1026	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38191 Project: SOOP00119
Sample ID: 586276011 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 12-JUL-22 10:44
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/21/22	1015	2291773	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/20/22	1204	2291768

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38197 Project: SOOP00119
Sample ID: 586276012 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 12-JUL-22 13:58
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1027	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38192 Project: SOOP00119
Sample ID: 586276013 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 12-JUL-22 14:55
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1029	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38193 Project: SOOP00119
Sample ID: 586276014 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 13:38
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1031	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38194 Project: SOOP00119
Sample ID: 586276015 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 14:41
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1036	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38195 Project: SOOP00119
Sample ID: 586276016 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 15:35
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1038	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38196 Project: SOOP00119
Sample ID: 586276017 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 11-JUL-22 15:40
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1040	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38178 Project: SOOP00119
Sample ID: 586276018 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 12-JUL-22 12:35
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1041	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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: July 25, 2022

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: AF38179 Project: SOOP00119
Sample ID: 586276019 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 12-JUL-22 12:40
Receive Date: 15-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1043	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

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

QC Summary

Report Date: July 25, 2022

Page 1 of 2

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

Contact:
Workorder: 586276

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2290693											
QC1205141031	586020001	DUP									
Mercury		0.448		0.460	ug/L	2.64 ^		(+/-0.200)	JP2	07/19/22	10:00
QC1205141030	LCS										
Mercury	2.00			2.05	ug/L		103	(80%-120%)		07/19/22	09:56
QC1205141029	MB										
Mercury			U	ND	ug/L					07/19/22	09:55
QC1205141032	586020001	MS									
Mercury	2.00	0.448		2.41	ug/L		98.1	(75%-125%)		07/19/22	10:02
QC1205141033	586020001	SDILT									
Mercury		0.448	J	0.0830	ug/L	7.37		(0%-10%)		07/19/22	10:03
Batch 2291773											
QC1205143343	585226001	DUP									
Mercury			U	ND	U	ND	ug/L	N/A		JP2	07/21/22 09:49
QC1205143342	LCS										
Mercury	2.00			2.19	ug/L		110	(80%-120%)		07/21/22	09:45
QC1205143341	MB										
Mercury			U	ND	ug/L					07/21/22	09:44
QC1205143344	585226001	MS									
Mercury	2.00	U		ND	2.18	ug/L	109	(75%-125%)		07/21/22	09:51
QC1205143345	585226001	SDILT									
Mercury			U	ND	U	ND	ug/L	N/A		(0%-10%)	07/21/22 09:52

GEL LABORATORIES LLC

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

QC Summary

Workorder: 586276

Page 2 of 2

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

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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 the 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.

Metals
Technical Case Narrative
Santee Cooper
SDG #: 586276

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2290693

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2290688

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
586276001	AF38185
586276002	AF38186
586276003	AF38162
586276004	AF38187
586276005	AF38188
586276006	AF38189
586276007	AF38165
586276008	AF38166
586276009	AF38164
586276010	AF38181
586276012	AF38197
586276013	AF38192
586276014	AF38193
586276015	AF38194
586276016	AF38195
586276017	AF38196
586276018	AF38178
586276019	AF38179
1205141029	Method Blank (MB)CVAA
1205141030	Laboratory Control Sample (LCS)
1205141033	586020001(NonSDGL) Serial Dilution (SD)
1205141031	586020001(NonSDGD) Sample Duplicate (DUP)
1205141032	586020001(NonSDGS) 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.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2291773

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2291768

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
586276011	AF38191
1205143341	Method Blank (MB)CVAA
1205143342	Laboratory Control Sample (LCS)
1205143345	585226001(NonSDGL) Serial Dilution (SD)
1205143343	585226001(NonSDGD) Sample Duplicate (DUP)
1205143344	585226001(NonSDGS) 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 - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to lcwillia@santecooper.com & sibrown@santecooper.com

Chain of Custody

586277
586276



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	RAD 226/225	TOTAL RAD CALC.	Hg
AF38185	WAP-23	7/13/22	1225	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1
AF38186	WAP-24	L	1531										
AF38162	WAP-7	L	1000										
AF38187	WAP-25	7/11/22	1030										
AF38188	WAP-26		1141										
AF38189	WAP-26 DUP		1146										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>S. Brown</i>	35594	7/15/22	1130	<i>R. S. J.</i>	GEL	7/15/22	1130
<i>K. S. J.</i>		7/15/22	1645	<i>M. H.</i>		7-15-22	1645

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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <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

586277
586276



Customer Email/Report Recipient: LCWILLIA@santeecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JMO2.08.GP1.3 / 365a 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 O.C.C.	Hg
AF38165	WAP-10	7/13/22	1322	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1
AF38166	WAP-10 DUP		1327										
AF38164	WAP-9		1434										
AF38163	WAP-8	7/12/22	1153	 	 	 	 	 	 	SJB	 	 	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>	35594	7/15/22	1130	<i>R. Siff</i>	GEL	7/15/22	1130
<i>R. Siff</i>		7/15/22	1645	<i>M. [Signature]</i>		7/15/22	1645

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

<input type="checkbox"/> Ag <input type="checkbox"/> Al <input type="checkbox"/> As <input type="checkbox"/> B <input type="checkbox"/> Ba <input type="checkbox"/> Be <input type="checkbox"/> Ca <input type="checkbox"/> Cd <input type="checkbox"/> Co <input type="checkbox"/> Cr	<input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> K <input type="checkbox"/> Li <input type="checkbox"/> Mg <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> Na <input type="checkbox"/> Ni <input type="checkbox"/> Pb	<input type="checkbox"/> Sb <input type="checkbox"/> Se <input type="checkbox"/> Sn <input type="checkbox"/> Sr <input type="checkbox"/> Ti <input type="checkbox"/> Tl <input type="checkbox"/> V <input type="checkbox"/> Zn <input type="checkbox"/> Hg <input type="checkbox"/> CrVI	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <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

586277
586276



Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 12915 / JM02.08.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 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 G/LC	Hg
AF38181	WAP-19	7/13/22	1108	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	x	1
AF38191	WBW-A1-1	7/12/22	1044										
AF38197	WLF-A1-5		1358										
AF38192	WLF-A1-1		1455										
AF38193	WLF-A1-2	7/11/22	1338										
AF38194	WLF-A1-3		1441										
AF38195	WLF-A1-4		1535										
AF38196	WLF-A1-4 DUP		1540										
AF38178	WAP-17	7/12/22	1235										
AF38177	WAP-17 DUP		1240										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sj Brown</i>	35594	7/15/22	1130	<i>R. Siff</i>	GEL	7/15/22	1130
<i>R. Siff</i>		7/15/22	1645	<i>M. [Signature]</i>		7-15-22	1645

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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <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: 500P SDG/AR/COC/Work Order: 586275/586281/586277/586276

Received By: MJS Date Received: 7-15-22 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Carrier and Tracking Number

Suspected Hazard Information

*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): 700 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 PCRA 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: Wet Ice Ice Packs Dry Ice <input checked="" type="checkbox"/> None Other: _____ *all temperatures are recorded in Celsius TEMP: <u>20</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>IR122</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#: _____ 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?	<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) 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"/>	Circle Applicable: Not relinquished Other (describe)
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SW Date 7/18/22 Page 1 of 1

List of current GEL Certifications as of 25 July 2022

State	Certification
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	SC000122022-5
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	2019-165
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	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



September 01, 2022

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

Re: ABS Lab Analytical
Work Order: 589538

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 15, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

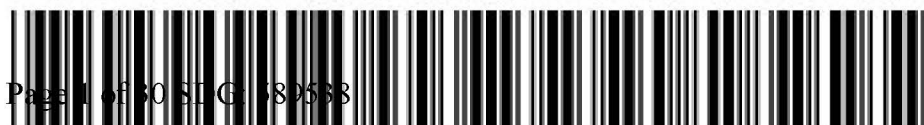
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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: 589538 GEL Work Order: 589538

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 _____

Julie Robinson

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 1, 2022

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: AF38185	Project: SOOP00119
Sample ID: 589538001	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 12:25	
Receive Date: 15-JUL-22	
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	2.14	+/-1.65	2.62	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.19	+/-1.73			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.05	+/-0.516	0.449	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			57.3	(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: September 1, 2022

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: AF38186	Project: SOOP00119
Sample ID: 589538002	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 15:31	
Receive Date: 15-JUL-22	
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	-0.120	+/-0.780	1.55	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.01	+/-0.868			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.01	+/-0.381	0.427	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			76.4	(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 1, 2022

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: AF38162	Project: SOOP00119
Sample ID: 589538003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 10:00	
Receive Date: 15-JUL-22	
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	1.34	+/-1.38	2.30	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.84	+/-1.47			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.50	+/-0.496	0.500	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			72.6	(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: September 1, 2022

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: AF38187	Project: SOOP00119
Sample ID: 589538004	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 10:30	
Receive Date: 15-JUL-22	
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	1.67	+/-1.34	2.15	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.84	+/-1.39			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.18	+/-0.366	0.289	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			71.6	(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: September 1, 2022

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: AF38188	Project: SOOP00119
Sample ID: 589538005	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 11:41	
Receive Date: 15-JUL-22	
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	1.47	+/-1.10	1.72	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.07	+/-1.18			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.60	+/-0.423	0.215	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			75.2	(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: September 1, 2022

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: AF38189	Project: SOOP00119
Sample ID: 589538006	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 11:46	
Receive Date: 15-JUL-22	
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	0.769	+/-1.15	1.98	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.76	+/-1.20			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.991	+/-0.352	0.330	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			76.7	(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: September 1, 2022

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: AF38165	Project: SOOP00119
Sample ID: 589538007	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 13:22	
Receive Date: 15-JUL-22	
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	+/-1.45	2.76	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.10	+/-1.51			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.10	+/-0.439	0.249	1.00	pCi/L			LXP1	08/09/22	0901	2306991	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"			70.1	(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 1, 2022

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: AF38166	Project: SOOP00119
Sample ID: 589538008	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 13:27	
Receive Date: 15-JUL-22	
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	+/-1.48	2.43	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.70	+/-1.56			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.17	+/-0.504	0.227	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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"			63.7	(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: September 1, 2022

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: AF38164	Project: SOOP00119
Sample ID: 589538009	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 14:34	
Receive Date: 15-JUL-22	
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	0.672	+/-1.55	2.72	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.20	+/-1.57			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.525	+/-0.290	0.382	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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"			66.2	(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: September 1, 2022

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: AF38181	Project: SOOP00119
Sample ID: 589538010	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 13-JUL-22 11:08	
Receive Date: 15-JUL-22	
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	1.46	+/-1.26	2.05	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.94	+/-1.31			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.479	+/-0.332	0.484	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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	(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 1, 2022

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: AF38191	Project: SOOP00119
Sample ID: 589538011	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 12-JUL-22 10:44	
Receive Date: 15-JUL-22	
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	0.975	+/-1.23	2.08	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.10	+/-1.32			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.12	+/-0.474	0.251	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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"			76.8	(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: September 1, 2022

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: AF38197	Project: SOOP00119
Sample ID: 589538012	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 12-JUL-22 13:58	
Receive Date: 15-JUL-22	
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	0.477	+/-1.46	2.59	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.816	+/-1.48			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.339	+/-0.255	0.375	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 1, 2022

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: AF38192	Project: SOOP00119
Sample ID: 589538013	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 12-JUL-22 14:55	
Receive Date: 15-JUL-22	
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	0.572	+/-1.34	2.36	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.762	+/-1.36			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.189	+/-0.254	0.437	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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"			73.6	(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: September 1, 2022

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: AF38193	Project: SOOP00119
Sample ID: 589538014	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 13:38	
Receive Date: 15-JUL-22	
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		1.91	+/-1.19	1.81	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.80	+/-1.23			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.885	+/-0.312	0.272	1.00	pCi/L			LXP1	08/09/22	0933	2306991	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 1, 2022

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: AF38194	Project: SOOP00119
Sample ID: 589538015	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 14:41	
Receive Date: 15-JUL-22	
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	1.52	+/-1.21	1.93	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.49	+/-1.26			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.963	+/-0.370	0.343	1.00	pCi/L			LXP1	08/09/22	1007	2306991	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"			75.2	(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: September 1, 2022

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: AF38195	Project: SOOP00119
Sample ID: 589538016	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 15:35	
Receive Date: 15-JUL-22	
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		2.39	+/-1.24	1.77	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.88	+/-1.27			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.493	+/-0.274	0.337	1.00	pCi/L			LXP1	08/09/22	1007	2306991	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"			68.8	(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: September 1, 2022

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: AF38196	Project: SOOP00119
Sample ID: 589538017	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 11-JUL-22 15:40	
Receive Date: 15-JUL-22	
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	0.604	+/-0.922	1.60	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.982	+/-0.965			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.378	+/-0.285	0.418	1.00	pCi/L			LXP1	08/09/22	1007	2306991	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: September 1, 2022

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: AF38178	Project: SOOP00119
Sample ID: 589538018	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 12-JUL-22 12:35	
Receive Date: 15-JUL-22	
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		1.93	+/-1.16	1.73	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.97	+/-1.21			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.04	+/-0.332	0.242	1.00	pCi/L			LXP1	08/09/22	1007	2306991	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

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

Certificate of Analysis

Report Date: September 1, 2022

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: AF38179	Project: SOOP00119
Sample ID: 589538019	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 12-JUL-22 12:40	
Receive Date: 15-JUL-22	
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	2.40	+/-1.57	2.46	3.00	pCi/L			JXC9	08/30/22	1204	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.09	+/-1.60			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.691	+/-0.330	0.407	1.00	pCi/L			LXP1	08/09/22	1007	2306991	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

QC Summary

Report Date: September 1, 2022

Page 1 of 2

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

Contact: Ms. Jeanette Gilmetti

Workorder: 589538

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2303555										
QC1205165059	589538002	DUP									
Radium-228	U	-0.120	U	0.892	pCi/L	N/A		N/A	JXC9	08/30/22	12:02
	Uncertainty	+/-0.780		+/-1.30							
QC1205165060	LCS										
Radium-228	44.7			42.8	pCi/L		95.8	(75%-125%)		08/30/22	12:02
	Uncertainty			+/-3.41							
QC1205165058	MB										
Radium-228			U	-0.632	pCi/L					08/30/22	12:02
	Uncertainty			+/-0.815							
Rad Ra-226											
Batch	2306991										
QC1205171938	589538001	DUP									
Radium-226		2.05		2.08	pCi/L	1.09		(0%-20%)	LXPI	08/09/22	10:07
	Uncertainty	+/-0.516		+/-0.464							
QC1205171940	LCS										
Radium-226	26.5			23.4	pCi/L		88.3	(75%-125%)		08/09/22	10:39
	Uncertainty			+/-1.50							
QC1205171937	MB										
Radium-226			U	0.196	pCi/L					08/09/22	10:07
	Uncertainty			+/-0.226							
QC1205171939	589538001	MS									
Radium-226	132	2.05		102	pCi/L		75.5	(75%-125%)		08/09/22	10:39
	Uncertainty	+/-0.516		+/-7.61							

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.

GEL LABORATORIES LLC

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

QC Summary

Workorder: 589538

Page 2 of 2

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H		Analytical holding time was exceeded									
J		See case narrative for an explanation									
J		Value is estimated									
K		Analyte present. Reported value may be biased high. Actual value is expected to be lower.									
L		Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
M		M if above MDC and less than LLD									
M		REMP Result > MDC/CL and < RDL									
N/A		RPD or %Recovery limits do not apply.									
NI		See case narrative									
ND		Analyte concentration is not detected above the detection limit									
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.									
UI		Gamma Spectroscopy--Uncertain identification									
UJ		Gamma Spectroscopy--Uncertain identification									
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		Other specific qualifiers were required to properly define the results. Consult case narrative.									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h		Preparation or preservation holding time was exceeded									

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 the 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 #: 589538**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2303555

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
589538001	AF38185
589538002	AF38186
589538003	AF38162
589538004	AF38187
589538005	AF38188
589538006	AF38189
589538007	AF38165
589538008	AF38166
589538009	AF38164
589538010	AF38181
589538011	AF38191
589538012	AF38197
589538013	AF38192
589538014	AF38193
589538015	AF38194
589538016	AF38195
589538017	AF38196
589538018	AF38178
589538019	AF38179
1205165058	Method Blank (MB)
1205165059	589538002(AF38186) Sample Duplicate (DUP)
1205165060	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: 2306991

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
589538001	AF38185
589538002	AF38186
589538003	AF38162
589538004	AF38187
589538005	AF38188
589538006	AF38189
589538007	AF38165
589538008	AF38166
589538009	AF38164
589538010	AF38181
589538011	AF38191
589538012	AF38197
589538013	AF38192
589538014	AF38193
589538015	AF38194
589538016	AF38195
589538017	AF38196
589538018	AF38178
589538019	AF38179
1205171937	Method Blank (MB)
1205171938	589538001(AF38185) Sample Duplicate (DUP)
1205171939	589538001(AF38185) Matrix Spike (MS)
1205171940	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, 1205171939 (AF38185MS), 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 - 20 DAYS

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 7 / 25 / 22

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

586277

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5141
Fax: (843)761-4171

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 • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC.	Hq
AF38186	WAP-24	L	1531										
AF38162	WAP-7	L	1000										
AF38187	WAP-25	7/11/22	1030										
AF38188	WAP-26		1141										
AF38189	WAP-26 DUP		1146										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>S. Brown</i>	35594	7/15/22	1130	<i>R. S. H</i>	GEL	7/15/22	1120
<i>K. S. H</i>		7/15/22	1645	<i>M. H</i>		7-15-22	1645

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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS	Oil Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Detecrite Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases 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=HNO3 2=H2SO4 3=HCl 4=HCl 5=Na2S2O3 6=Other (Specify)

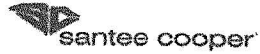
Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 7 / 25 / 22

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

Chain of Custody

586277



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.GP1.3 / 3650

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 CHL.	Hg
AF38165	WAP-10	7/13/22	1322	DEW B/M	3	T	G	GW	2	Hg-747D RL < 0.200 ug/L	2	X	1
AF38166	WAP-10 D4P		1327										
AF38164	WAP-9		1434										
AF38163	WAP-8	7/12/22	1153	 	 	 	 	 	 	SJB	 	 	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>	35594	7/15/22	1130	<i>K. Siff</i>	GEL	7/15/22	1130
<i>K. Siff</i>		7/15/22	1645	<i>M. [Signature]</i>		7/15/22	1645

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

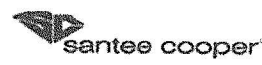
<input type="checkbox"/> METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input type="checkbox"/> K <input type="checkbox"/> Sn <input type="checkbox"/> 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> AIM <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil 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 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"/> 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,

Specialty: Gypsum, 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 - 20 DAYS

586277



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: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 12915 / 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 226/228	TOTAL RAD CAL-C	Hg
AF38181	WAP-19	7/13/22	1108	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1
AF38191	WBW-A1-1	7/12/22	1044										
AF38197	WLF-A1-5		1353										
AF38192	WLF-A1-1		1455										
AF38193	WLF-A1-2	7/11/22	1338										
AF38194	WLF-A1-3		1441										
AF38195	WLF-A1-4		1535										
AF38196	WLF-A1-4 DUP		1540										
AF38178	WAP-17	7/12/22	1235										
AF38179	WAP-17 DUP		1240										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>S. Brown</i>	35594	7/15/22	1130	<i>J. S. J.</i>	GEL	7/15/22	1130
<i>R. Smith</i>		7/15/22	1645	<i>M. J.</i>		7-15-22	1645

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			Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Qual. %Moisture Color Acidity Dielectric Strength IFT Dissolved Gases Used Oil Flashpoint Metals in oil (As, Cd, Cr, Ni, Pb, Hg) TX 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, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=H2O 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

SAMPLE RECEIPT & REVIEW FORM

SDG/AR/COC/Work Order: 586275/586281/586277

Client: SCOP

Received By: MRS

Date Received: 7-15-22
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Carrier and Tracking Number

Suspected Hazard Information

*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): 700 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 PCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Confirming Items)			
				Seals broken	Damaged container	Leaking container	Other (describe)
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 <u>None</u> Other: _____ *all temperatures are recorded in Celsius TEMP: 20			
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: TR922 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#: _____ 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 ___			
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected: ID's and tests affected: _____			
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____			
9 Sample ID's on COC match ID's 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)			
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)			
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)			
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SW Date 7/18/22 Page 1 of 1

List of current GEL Certifications as of 01 September 2022

State	Certification
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	SC000122023-3
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	2019-165
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	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

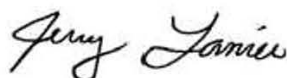
ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-221296-1
Client Project/Site: 125915/JM02.09.G01.1/36500

For:
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams



Authorized for release by:
9/30/2022 7:36:40 PM

Jerry Lanier, Project Manager I
(912)250-0281
Jerry.Lanier@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Definitions	6
Detection Summary	7
Client Sample Results	18
QC Sample Results	51
QC Association	57
Chronicle	62
Chain of Custody	69
Receipt Checklists	74
Certification Summary	75

Case Narrative

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Job ID: 680-221296-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-221296-1

Receipt

The samples were received on 9/16/2022 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 24.0°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-221296-1	AF38168	Water	07/06/22 14:06	09/16/22 10:30
680-221296-2	AF38169	Water	07/06/22 14:11	09/16/22 10:30
680-221296-3	AF38170	Water	07/18/22 13:12	09/16/22 10:30
680-221296-4	AF38171	Water	07/20/22 14:12	09/16/22 10:30
680-221296-5	AF38172	Water	07/20/22 14:17	09/16/22 10:30
680-221296-6	AF38173	Water	07/20/22 11:00	09/16/22 10:30
680-221296-7	AF38174	Water	07/20/22 12:20	09/16/22 10:30
680-221296-8	AF38175	Water	07/20/22 13:17	09/16/22 10:30
680-221296-9	AF38176	Water	07/18/22 14:30	09/16/22 10:30
680-221296-10	AF38177	Water	07/14/22 12:48	09/16/22 10:30
680-221296-11	AF38178	Water	07/12/22 12:35	09/16/22 10:30
680-221296-12	AF38179	Water	07/12/22 12:40	09/16/22 10:30
680-221296-13	AF38180	Water	07/07/22 14:43	09/16/22 10:30
680-221296-14	AF38181	Water	07/13/22 11:08	09/16/22 10:30
680-221296-15	AF38182	Water	07/28/22 11:00	09/16/22 10:30
680-221296-16	AF38183	Water	07/14/22 10:45	09/16/22 10:30
680-221296-17	AF38184	Water	07/07/22 13:44	09/16/22 10:30
680-221296-18	AF38185	Water	07/13/22 12:25	09/16/22 10:30
680-221296-19	AF38186	Water	07/13/22 15:31	09/16/22 10:30
680-221296-20	AF38187	Water	07/11/22 10:30	09/16/22 10:30
680-221296-21	AF38188	Water	07/11/22 11:41	09/16/22 10:30
680-221296-22	AF38189	Water	07/11/22 11:46	09/16/22 10:30
680-221296-23	AF38190	Water	07/06/22 10:23	09/16/22 10:30
680-221296-24	AF38191	Water	07/12/22 10:44	09/16/22 10:30
680-221296-25	AF38192	Water	07/12/22 14:55	09/16/22 10:30
680-221296-26	AF38193	Water	07/11/22 13:38	09/16/22 10:30
680-221296-27	AF38194	Water	07/11/22 14:41	09/16/22 10:30
680-221296-28	AF38195	Water	07/11/22 15:35	09/16/22 10:30
680-221296-29	AF38196	Water	07/11/22 15:40	09/16/22 10:30
680-221296-30	AF38197	Water	07/12/22 13:58	09/16/22 10:30
680-221296-31	AF38198	Water	07/07/22 12:37	09/16/22 10:30
680-221296-32	AF38199	Water	07/07/22 11:37	09/16/22 10:30
680-221296-33	AF38200	Water	07/14/22 11:50	09/16/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

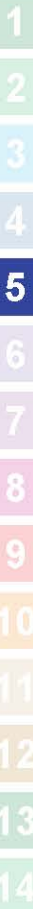
Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

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



Definitions/Glossary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Qualifiers

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
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.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38168

Lab Sample ID: 680-221296-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	126000		500		ug/L	1		6010D	Total Recoverable
Iron	2690		100		ug/L	1		6010D	Total Recoverable
Magnesium	18100		500		ug/L	1		6010D	Total Recoverable
Potassium	5890		1000		ug/L	1		6010D	Total Recoverable
Sodium	30500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2830		100		ug/L	1		6020B	Total Recoverable
Barium	22.2		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.14		0.500		ug/L	1		6020B	Total Recoverable
Zinc	22.7		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38169

Lab Sample ID: 680-221296-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	114000		500		ug/L	1		6010D	Total Recoverable
Iron	2430		100		ug/L	1		6010D	Total Recoverable
Magnesium	16400		500		ug/L	1		6010D	Total Recoverable
Potassium	5210		1000		ug/L	1		6010D	Total Recoverable
Sodium	27600		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2860		100		ug/L	1		6020B	Total Recoverable
Barium	22.5		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.23		0.500		ug/L	1		6020B	Total Recoverable
Zinc	26.7		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38170

Lab Sample ID: 680-221296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	355000		500		ug/L	1		6010D	Total Recoverable
Iron	50400		100		ug/L	1		6010D	Total Recoverable
Magnesium	24800		500		ug/L	1		6010D	Total Recoverable
Potassium	2270		1000		ug/L	1		6010D	Total Recoverable
Sodium	108000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	5.60		3.00		ug/L	1		6020B	Total Recoverable
Barium	287		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: 680-221296-1

Client Sample ID: AF38170 (Continued)

Lab Sample ID: 680-221296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.525		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38171

Lab Sample ID: 680-221296-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1170000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	29800		500		ug/L	1		6010D	Total Recoverable
Potassium	15700		1000		ug/L	1		6010D	Total Recoverable
Sodium	128000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	17.4		3.00		ug/L	1		6020B	Total Recoverable
Barium	41.6		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38172

Lab Sample ID: 680-221296-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1230000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	27700		500		ug/L	1		6010D	Total Recoverable
Potassium	14400		1000		ug/L	1		6010D	Total Recoverable
Sodium	118000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	13.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	47.9		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38173

Lab Sample ID: 680-221296-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	759000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	37100		500		ug/L	1		6010D	Total Recoverable
Potassium	11500		1000		ug/L	1		6010D	Total Recoverable
Sodium	104000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	7.21		3.00		ug/L	1		6020B	Total Recoverable
Barium	90.3		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38174

Lab Sample ID: 680-221296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	681000		500		ug/L	1		6010D	Total Recoverable
Iron	13200		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: 680-221296-1

Client Sample ID: AF38174 (Continued)

Lab Sample ID: 680-221296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	29000		500		ug/L	1		6010D	Total Recoverable
Potassium	6470		1000		ug/L	1		6010D	Total Recoverable
Sodium	96600		2000		ug/L	1		6010D	Total Recoverable
Arsenic	6.29		3.00		ug/L	1		6020B	Total Recoverable
Barium	159		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38175

Lab Sample ID: 680-221296-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	152000		500		ug/L	1		6010D	Total Recoverable
Iron	6360		100		ug/L	1		6010D	Total Recoverable
Magnesium	7860		500		ug/L	1		6010D	Total Recoverable
Potassium	4770		1000		ug/L	1		6010D	Total Recoverable
Sodium	68800		2000		ug/L	1		6010D	Total Recoverable
Barium	77.6		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38176

Lab Sample ID: 680-221296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47100		500		ug/L	1		6010D	Total Recoverable
Iron	11700		100		ug/L	1		6010D	Total Recoverable
Magnesium	7760		500		ug/L	1		6010D	Total Recoverable
Potassium	2530		1000		ug/L	1		6010D	Total Recoverable
Sodium	18100		2000		ug/L	1		6010D	Total Recoverable
Arsenic	3.74		3.00		ug/L	1		6020B	Total Recoverable
Barium	147		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.830		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	1.13		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38177

Lab Sample ID: 680-221296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	182000		500		ug/L	1		6010D	Total Recoverable
Iron	6610		100		ug/L	1		6010D	Total Recoverable
Magnesium	17700		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: 680-221296-1

Client Sample ID: AF38177 (Continued)

Lab Sample ID: 680-221296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	10400		1000		ug/L	1		6010D	Total Recoverable
Sodium	111000		2000		ug/L	1		6010D	Total Recoverable
Aluminum	156		100		ug/L	1		6020B	Total Recoverable
Barium	70.2		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38178

Lab Sample ID: 680-221296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	226000		500		ug/L	1		6010D	Total Recoverable
Iron	1550		100		ug/L	1		6010D	Total Recoverable
Magnesium	33600		500		ug/L	1		6010D	Total Recoverable
Molybdenum	28.0		10.0		ug/L	1		6010D	Total Recoverable
Potassium	12700		1000		ug/L	1		6010D	Total Recoverable
Sodium	60900		2000		ug/L	1		6010D	Total Recoverable
Arsenic	86.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	41.0		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38179

Lab Sample ID: 680-221296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	234000		500		ug/L	1		6010D	Total Recoverable
Iron	1540		100		ug/L	1		6010D	Total Recoverable
Magnesium	35200		500		ug/L	1		6010D	Total Recoverable
Molybdenum	29.4		10.0		ug/L	1		6010D	Total Recoverable
Potassium	13400		1000		ug/L	1		6010D	Total Recoverable
Sodium	64500		2000		ug/L	1		6010D	Total Recoverable
Arsenic	78.1		3.00		ug/L	1		6020B	Total Recoverable
Barium	42.3		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38180

Lab Sample ID: 680-221296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	68700		500		ug/L	1		6010D	Total Recoverable
Iron	1110		100		ug/L	1		6010D	Total Recoverable
Magnesium	5140		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: 680-221296-1

Client Sample ID: AF38180 (Continued)

Lab Sample ID: 680-221296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	179		10.0		ug/L	1		6010D	Total Recoverable
Potassium	6050		1000		ug/L	1		6010D	Total Recoverable
Sodium	25400		2000		ug/L	1		6010D	Total Recoverable
Aluminum	241		100		ug/L	1		6020B	Total Recoverable
Arsenic	189		3.00		ug/L	1		6020B	Total Recoverable
Barium	76.0		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.07		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38181

Lab Sample ID: 680-221296-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	316000		500		ug/L	1		6010D	Total Recoverable
Iron	2610		100		ug/L	1		6010D	Total Recoverable
Magnesium	40800		500		ug/L	1		6010D	Total Recoverable
Molybdenum	45.6		10.0		ug/L	1		6010D	Total Recoverable
Potassium	16100		1000		ug/L	1		6010D	Total Recoverable
Sodium	40000		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2050		100		ug/L	1		6020B	Total Recoverable
Arsenic	112		3.00		ug/L	1		6020B	Total Recoverable
Barium	43.7		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	6.02		0.500		ug/L	1		6020B	Total Recoverable
Nickel	6.35		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38182

Lab Sample ID: 680-221296-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	32400		500		ug/L	1		6010D	Total Recoverable
Iron	72000		100		ug/L	1		6010D	Total Recoverable
Magnesium	10200		500		ug/L	1		6010D	Total Recoverable
Molybdenum	71.8		10.0		ug/L	1		6010D	Total Recoverable
Potassium	4940		1000		ug/L	1		6010D	Total Recoverable
Sodium	27500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	74400		100		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: 680-221296-1

Client Sample ID: AF38182 (Continued)

Lab Sample ID: 680-221296-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	141		3.00		ug/L	1		6020B	Total Recoverable
Barium	122		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.690		0.500		ug/L	1		6020B	Total Recoverable
Chromium	93.2	^6+	5.00		ug/L	1		6020B	Total Recoverable
Cobalt	7.46		0.500		ug/L	1		6020B	Total Recoverable
Copper	16.4		5.00		ug/L	1		6020B	Total Recoverable
Lead	62.7		2.50		ug/L	1		6020B	Total Recoverable
Nickel	26.2		5.00		ug/L	1		6020B	Total Recoverable
Selenium	3.98		2.50		ug/L	1		6020B	Total Recoverable
Zinc	60.0		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38183

Lab Sample ID: 680-221296-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74200		5000		ug/L	1		6010D	Total Recoverable
Iron	1090		1000		ug/L	1		6010D	Total Recoverable
Magnesium	11600		5000		ug/L	1		6010D	Total Recoverable
Aluminum	1660		1000		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38184

Lab Sample ID: 680-221296-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	435000		500		ug/L	1		6010D	Total Recoverable
Iron	38900		100		ug/L	1		6010D	Total Recoverable
Magnesium	66000		500		ug/L	1		6010D	Total Recoverable
Potassium	24300		1000		ug/L	1		6010D	Total Recoverable
Sodium	128000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	65.9		3.00		ug/L	1		6020B	Total Recoverable
Barium	280		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.635		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38185

Lab Sample ID: 680-221296-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	218000		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: 680-221296-1

Client Sample ID: AF38185 (Continued)

Lab Sample ID: 680-221296-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7720		100		ug/L	1		6010D	Total Recoverable
Magnesium	10400		500		ug/L	1		6010D	Total Recoverable
Potassium	1750		1000		ug/L	1		6010D	Total Recoverable
Sodium	40300		2000		ug/L	1		6010D	Total Recoverable
Barium	107		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38186

Lab Sample ID: 680-221296-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	99000		500		ug/L	1		6010D	Total Recoverable
Iron	187		100		ug/L	1		6010D	Total Recoverable
Magnesium	7950		500		ug/L	1		6010D	Total Recoverable
Potassium	4510		1000		ug/L	1		6010D	Total Recoverable
Sodium	26200		2000		ug/L	1		6010D	Total Recoverable

Client Sample ID: AF38187

Lab Sample ID: 680-221296-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	58600		500		ug/L	1		6010D	Total Recoverable
Iron	2920		100		ug/L	1		6010D	Total Recoverable
Magnesium	2010		500		ug/L	1		6010D	Total Recoverable
Potassium	1910		1000		ug/L	1		6010D	Total Recoverable
Sodium	9720		2000		ug/L	1		6010D	Total Recoverable
Barium	9.68		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38188

Lab Sample ID: 680-221296-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19400		500		ug/L	1		6010D	Total Recoverable
Iron	542		100		ug/L	1		6010D	Total Recoverable
Magnesium	1700		500		ug/L	1		6010D	Total Recoverable
Sodium	3680		2000		ug/L	1		6010D	Total Recoverable
Aluminum	173		100		ug/L	1		6020B	Total Recoverable
Barium	45.8		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: 680-221296-1

Client Sample ID: AF38189

Lab Sample ID: 680-221296-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20000		500		ug/L	1		6010D	Total Recoverable
Iron	573		100		ug/L	1		6010D	Total Recoverable
Magnesium	1780		500		ug/L	1		6010D	Total Recoverable
Sodium	3870		2000		ug/L	1		6010D	Total Recoverable
Aluminum	155		100		ug/L	1		6020B	Total Recoverable
Barium	39.4		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38190

Lab Sample ID: 680-221296-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2520		500		ug/L	1		6010D	Total Recoverable
Iron	352		100		ug/L	1		6010D	Total Recoverable
Magnesium	897		500		ug/L	1		6010D	Total Recoverable
Sodium	2670		2000		ug/L	1		6010D	Total Recoverable
Aluminum	963		100		ug/L	1		6020B	Total Recoverable
Barium	38.3		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	3.15		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38191

Lab Sample ID: 680-221296-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	55900		500		ug/L	1		6010D	Total Recoverable
Iron	3280		100		ug/L	1		6010D	Total Recoverable
Magnesium	2240		500		ug/L	1		6010D	Total Recoverable
Potassium	3170		1000		ug/L	1		6010D	Total Recoverable
Sodium	11500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	985		100		ug/L	1		6020B	Total Recoverable
Barium	113		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38192

Lab Sample ID: 680-221296-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	337000		500		ug/L	1		6010D	Total Recoverable
Iron	10300		100		ug/L	1		6010D	Total Recoverable
Magnesium	9370		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: 680-221296-1

Client Sample ID: AF38192 (Continued)

Lab Sample ID: 680-221296-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4370		1000		ug/L	1		6010D	Total Recoverable
Sodium	9600		2000		ug/L	1		6010D	Total Recoverable
Aluminum	149		100		ug/L	1		6020B	Total Recoverable
Barium	32.7		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38193

Lab Sample ID: 680-221296-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	23800		500		ug/L	1		6010D	Total Recoverable
Iron	2860		100		ug/L	1		6010D	Total Recoverable
Magnesium	655		500		ug/L	1		6010D	Total Recoverable
Aluminum	2250		100		ug/L	1		6020B	Total Recoverable
Barium	51.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.91		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38194

Lab Sample ID: 680-221296-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	17600	F1	500		ug/L	1		6010D	Total Recoverable
Calcium	14600		500		ug/L	1		6010D	Total Recoverable
Iron	477		100		ug/L	1		6010D	Total Recoverable
Iron	399		100		ug/L	1		6010D	Total Recoverable
Sodium	2380		2000		ug/L	1		6010D	Total Recoverable
Sodium	2010		2000		ug/L	1		6010D	Total Recoverable
Aluminum	3180		100		ug/L	1		6020B	Total Recoverable
Arsenic	6.95		3.00		ug/L	1		6020B	Total Recoverable
Barium	32.4		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.885		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38195

Lab Sample ID: 680-221296-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	71200		500		ug/L	1		6010D	Total Recoverable
Iron	2520		100		ug/L	1		6010D	Total Recoverable
Magnesium	1280		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: 680-221296-1

Client Sample ID: AF38195 (Continued)

Lab Sample ID: 680-221296-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1260		1000		ug/L	1		6010D	Total Recoverable
Sodium	2700		2000		ug/L	1		6010D	Total Recoverable
Aluminum	131		100		ug/L	1		6020B	Total Recoverable
Barium	35.0		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38196

Lab Sample ID: 680-221296-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60400		500		ug/L	1		6010D	Total Recoverable
Iron	2120		100		ug/L	1		6010D	Total Recoverable
Magnesium	1100		500		ug/L	1		6010D	Total Recoverable
Potassium	1060		1000		ug/L	1		6010D	Total Recoverable
Sodium	2310		2000		ug/L	1		6010D	Total Recoverable
Aluminum	165		100		ug/L	1		6020B	Total Recoverable
Barium	42.8		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38197

Lab Sample ID: 680-221296-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	272000		500		ug/L	1		6010D	Total Recoverable
Iron	2870		100		ug/L	1		6010D	Total Recoverable
Magnesium	25900		500		ug/L	1		6010D	Total Recoverable
Potassium	6390		1000		ug/L	1		6010D	Total Recoverable
Sodium	15600		2000		ug/L	1		6010D	Total Recoverable
Barium	39.5		5.00		ug/L	1		6020B	Total Recoverable
Zinc	22.4		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38198

Lab Sample ID: 680-221296-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	95400		500		ug/L	1		6010D	Total Recoverable
Iron	1560		100		ug/L	1		6010D	Total Recoverable
Magnesium	7170		500		ug/L	1		6010D	Total Recoverable
Potassium	4910		1000		ug/L	1		6010D	Total Recoverable
Sodium	21600		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: 680-221296-1

Client Sample ID: AF38198 (Continued)

Lab Sample ID: 680-221296-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	428		100		ug/L	1		6020B	Total Recoverable
Arsenic	106		3.00		ug/L	1		6020B	Total Recoverable
Barium	72.5		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.45		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38199

Lab Sample ID: 680-221296-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	94200		500		ug/L	1		6010D	Total Recoverable
Iron	2670		100		ug/L	1		6010D	Total Recoverable
Magnesium	3430		500		ug/L	1		6010D	Total Recoverable
Potassium	3500		1000		ug/L	1		6010D	Total Recoverable
Sodium	9770		2000		ug/L	1		6010D	Total Recoverable
Arsenic	242		3.00		ug/L	1		6020B	Total Recoverable
Barium	60.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.620		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38200

Lab Sample ID: 680-221296-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	131000		500		ug/L	1		6010D	Total Recoverable
Iron	448		100		ug/L	1		6010D	Total Recoverable
Magnesium	7380		500		ug/L	1		6010D	Total Recoverable
Potassium	4190		1000		ug/L	1		6010D	Total Recoverable
Sodium	5810		2000		ug/L	1		6010D	Total Recoverable
Arsenic	3.70		3.00		ug/L	1		6020B	Total Recoverable
Barium	36.6		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: 680-221296-1

Client Sample ID: AF38168

Lab Sample ID: 680-221296-1

Date Collected: 07/06/22 14:06

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	126000		500		ug/L		09/20/22 05:39	09/20/22 15:29	1
Iron	2690		100		ug/L		09/20/22 05:39	09/20/22 15:29	1
Magnesium	18100		500		ug/L		09/20/22 05:39	09/20/22 15:29	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:29	1
Potassium	5890		1000		ug/L		09/20/22 05:39	09/20/22 15:29	1
Sodium	30500		2000		ug/L		09/20/22 05:39	09/20/22 15:29	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2830		100		ug/L		09/20/22 05:39	09/20/22 23:35	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Barium	22.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Cobalt	1.14		0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:35	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:35	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Zinc	22.7		20.0		ug/L		09/20/22 05:39	09/20/22 23:35	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38169

Lab Sample ID: 680-221296-2

Date Collected: 07/06/22 14:11

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	114000		500		ug/L		09/20/22 05:39	09/20/22 15:11	1
Iron	2430		100		ug/L		09/20/22 05:39	09/20/22 15:11	1
Magnesium	16400		500		ug/L		09/20/22 05:39	09/20/22 15:11	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:11	1
Potassium	5210		1000		ug/L		09/20/22 05:39	09/20/22 15:11	1
Sodium	27600		2000		ug/L		09/20/22 05:39	09/20/22 15:11	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2860		100		ug/L		09/20/22 05:39	09/20/22 23:07	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Barium	22.5		5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Cobalt	1.23		0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:07	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:07	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Zinc	26.7		20.0		ug/L		09/20/22 05:39	09/20/22 23:07	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38170

Lab Sample ID: 680-221296-3

Date Collected: 07/18/22 13:12

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	355000		500		ug/L		09/20/22 05:22	09/20/22 16:24	1
Iron	50400		100		ug/L		09/20/22 05:22	09/20/22 16:24	1
Magnesium	24800		500		ug/L		09/20/22 05:22	09/20/22 16:24	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:24	1
Potassium	2270		1000		ug/L		09/20/22 05:22	09/20/22 16:24	1
Sodium	108000		2000		ug/L		09/20/22 05:22	09/20/22 16:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 20:55	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Arsenic	5.60		3.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Barium	287		5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Cobalt	0.525		0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:55	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:55	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 20:55	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38171

Lab Sample ID: 680-221296-4

Date Collected: 07/20/22 14:12

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1170000		5000		ug/L		09/20/22 05:39	09/21/22 15:27	10
Iron	100	U	100		ug/L		09/20/22 05:39	09/20/22 15:41	1
Magnesium	29800		500		ug/L		09/20/22 05:39	09/20/22 15:41	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:41	1
Potassium	15700		1000		ug/L		09/20/22 05:39	09/20/22 15:41	1
Sodium	128000		2000		ug/L		09/20/22 05:39	09/20/22 15:41	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:54	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Arsenic	17.4		3.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Barium	41.6		5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:54	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:54	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:54	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38172

Lab Sample ID: 680-221296-5

Date Collected: 07/20/22 14:17

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1230000		5000		ug/L		09/20/22 05:22	09/21/22 15:33	10
Iron	100	U	100		ug/L		09/20/22 05:22	09/20/22 16:54	1
Magnesium	27700		500		ug/L		09/20/22 05:22	09/20/22 16:54	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:54	1
Potassium	14400		1000		ug/L		09/20/22 05:22	09/20/22 16:54	1
Sodium	118000		2000		ug/L		09/20/22 05:22	09/20/22 16:54	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:42	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Arsenic	13.6		3.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Barium	47.9		5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:42	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:42	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:42	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38173

Lab Sample ID: 680-221296-6

Date Collected: 07/20/22 11:00

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	759000		5000		ug/L		09/20/22 05:22	09/21/22 15:30	10
Iron	100	U	100		ug/L		09/20/22 05:22	09/20/22 16:39	1
Magnesium	37100		500		ug/L		09/20/22 05:22	09/20/22 16:39	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:39	1
Potassium	11500		1000		ug/L		09/20/22 05:22	09/20/22 16:39	1
Sodium	104000		2000		ug/L		09/20/22 05:22	09/20/22 16:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:26	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Arsenic	7.21		3.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Barium	90.3		5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:26	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38174

Lab Sample ID: 680-221296-7

Date Collected: 07/20/22 12:20

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	681000		500		ug/L		09/20/22 05:22	09/20/22 16:59	1
Iron	13200		100		ug/L		09/20/22 05:22	09/20/22 16:59	1
Magnesium	29000		500		ug/L		09/20/22 05:22	09/20/22 16:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:59	1
Potassium	6470		1000		ug/L		09/20/22 05:22	09/20/22 16:59	1
Sodium	96600		2000		ug/L		09/20/22 05:22	09/20/22 16:59	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:50	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Arsenic	6.29		3.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Barium	159		5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:50	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:50	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:50	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38175

Lab Sample ID: 680-221296-8

Date Collected: 07/20/22 13:17

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	152000		500		ug/L		09/20/22 05:39	09/20/22 15:39	1
Iron	6360		100		ug/L		09/20/22 05:39	09/20/22 15:39	1
Magnesium	7860		500		ug/L		09/20/22 05:39	09/20/22 15:39	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:39	1
Potassium	4770		1000		ug/L		09/20/22 05:39	09/20/22 15:39	1
Sodium	68800		2000		ug/L		09/20/22 05:39	09/20/22 15:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:50	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Barium	77.6		5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:50	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:50	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:50	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38176

Lab Sample ID: 680-221296-9

Date Collected: 07/18/22 14:30

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47100		500		ug/L		09/20/22 05:39	09/20/22 15:57	1
Iron	11700		100		ug/L		09/20/22 05:39	09/20/22 15:57	1
Magnesium	7760		500		ug/L		09/20/22 05:39	09/20/22 15:57	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:57	1
Potassium	2530		1000		ug/L		09/20/22 05:39	09/20/22 15:57	1
Sodium	18100		2000		ug/L		09/20/22 05:39	09/20/22 15:57	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/21/22 00:09	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Arsenic	3.74		3.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Barium	147		5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Beryllium	0.830		0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Cobalt	1.13		0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:09	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:09	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:09	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38177

Lab Sample ID: 680-221296-10

Date Collected: 07/14/22 12:48

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	182000		500		ug/L		09/20/22 05:39	09/20/22 15:31	1
Iron	6610		100		ug/L		09/20/22 05:39	09/20/22 15:31	1
Magnesium	17700		500		ug/L		09/20/22 05:39	09/20/22 15:31	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:31	1
Potassium	10400		1000		ug/L		09/20/22 05:39	09/20/22 15:31	1
Sodium	111000		2000		ug/L		09/20/22 05:39	09/20/22 15:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	156		100		ug/L		09/20/22 05:39	09/20/22 23:39	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Barium	70.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:39	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38178

Lab Sample ID: 680-221296-11

Date Collected: 07/12/22 12:35

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	226000		500		ug/L		09/20/22 05:39	09/20/22 15:54	1
Iron	1550		100		ug/L		09/20/22 05:39	09/20/22 15:54	1
Magnesium	33600		500		ug/L		09/20/22 05:39	09/20/22 15:54	1
Molybdenum	28.0		10.0		ug/L		09/20/22 05:39	09/20/22 15:54	1
Potassium	12700		1000		ug/L		09/20/22 05:39	09/20/22 15:54	1
Sodium	60900		2000		ug/L		09/20/22 05:39	09/20/22 15:54	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/21/22 00:06	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Arsenic	86.6		3.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Barium	41.0		5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:06	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:06	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:06	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38179

Lab Sample ID: 680-221296-12

Date Collected: 07/12/22 12:40

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	234000		500		ug/L		09/20/22 05:39	09/20/22 15:34	1
Iron	1540		100		ug/L		09/20/22 05:39	09/20/22 15:34	1
Magnesium	35200		500		ug/L		09/20/22 05:39	09/20/22 15:34	1
Molybdenum	29.4		10.0		ug/L		09/20/22 05:39	09/20/22 15:34	1
Potassium	13400		1000		ug/L		09/20/22 05:39	09/20/22 15:34	1
Sodium	64500		2000		ug/L		09/20/22 05:39	09/20/22 15:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:42	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Arsenic	78.1		3.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Barium	42.3		5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:42	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:42	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:42	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38180

Lab Sample ID: 680-221296-13

Date Collected: 07/07/22 14:43

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68700		500		ug/L		09/20/22 05:39	09/20/22 15:26	1
Iron	1110		100		ug/L		09/20/22 05:39	09/20/22 15:26	1
Magnesium	5140		500		ug/L		09/20/22 05:39	09/20/22 15:26	1
Molybdenum	179		10.0		ug/L		09/20/22 05:39	09/20/22 15:26	1
Potassium	6050		1000		ug/L		09/20/22 05:39	09/20/22 15:26	1
Sodium	25400		2000		ug/L		09/20/22 05:39	09/20/22 15:26	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	241		100		ug/L		09/20/22 05:39	09/20/22 23:23	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Arsenic	189		3.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Barium	76.0		5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Cobalt	2.07		0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:23	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38181

Lab Sample ID: 680-221296-14

Date Collected: 07/13/22 11:08

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	316000		500		ug/L		09/20/22 05:39	09/20/22 15:24	1
Iron	2610		100		ug/L		09/20/22 05:39	09/20/22 15:24	1
Magnesium	40800		500		ug/L		09/20/22 05:39	09/20/22 15:24	1
Molybdenum	45.6		10.0		ug/L		09/20/22 05:39	09/20/22 15:24	1
Potassium	16100		1000		ug/L		09/20/22 05:39	09/20/22 15:24	1
Sodium	40000		2000		ug/L		09/20/22 05:39	09/20/22 15:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2050		100		ug/L		09/20/22 05:39	09/20/22 23:19	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Arsenic	112		3.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Barium	43.7		5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Cobalt	6.02		0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:19	1
Nickel	6.35		5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:19	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:19	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38182

Lab Sample ID: 680-221296-15

Date Collected: 07/28/22 11:00

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	32400		500		ug/L		09/20/22 05:22	09/20/22 16:29	1
Iron	72000		100		ug/L		09/20/22 05:22	09/20/22 16:29	1
Magnesium	10200		500		ug/L		09/20/22 05:22	09/20/22 16:29	1
Molybdenum	71.8		10.0		ug/L		09/20/22 05:22	09/20/22 16:29	1
Potassium	4940		1000		ug/L		09/20/22 05:22	09/20/22 16:29	1
Sodium	27500		2000		ug/L		09/20/22 05:22	09/20/22 16:29	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	74400		100		ug/L		09/20/22 05:22	09/20/22 21:03	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Arsenic	141		3.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Barium	122		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Beryllium	0.690		0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Chromium	93.2	^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Cobalt	7.46		0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Copper	16.4		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Lead	62.7		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Nickel	26.2		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Selenium	3.98		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Zinc	60.0		20.0		ug/L		09/20/22 05:22	09/20/22 21:03	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38183

Lab Sample ID: 680-221296-16

Date Collected: 07/14/22 10:45

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	74200		5000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Iron	1090		1000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Magnesium	11600		5000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Molybdenum	100	U	100		ug/L		09/21/22 13:44	09/21/22 18:45	1
Potassium	10000	U	10000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Sodium	20000	U	20000		ug/L		09/21/22 13:44	09/21/22 18:45	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1660		1000		ug/L		09/20/22 10:24	09/22/22 02:15	1
Antimony	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Arsenic	30.0	U	30.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Barium	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Beryllium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Cadmium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Chromium	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Cobalt	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Copper	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Lead	25.0	U	25.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Nickel	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Selenium	25.0	U	25.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Thallium	10.0	U	10.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Zinc	200	U	200		ug/L		09/20/22 10:24	09/22/22 02:15	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38184

Lab Sample ID: 680-221296-17

Date Collected: 07/07/22 13:44

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	435000		500		ug/L		09/20/22 05:22	09/20/22 16:52	1
Iron	38900		100		ug/L		09/20/22 05:22	09/20/22 16:52	1
Magnesium	66000		500		ug/L		09/20/22 05:22	09/20/22 16:52	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:52	1
Potassium	24300		1000		ug/L		09/20/22 05:22	09/20/22 16:52	1
Sodium	128000		2000		ug/L		09/20/22 05:22	09/20/22 16:52	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:38	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Arsenic	65.9		3.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Barium	280		5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Beryllium	0.635		0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:38	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:38	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:38	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38185

Lab Sample ID: 680-221296-18

Date Collected: 07/13/22 12:25

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	218000		500		ug/L		09/20/22 05:39	09/20/22 15:14	1
Iron	7720		100		ug/L		09/20/22 05:39	09/20/22 15:14	1
Magnesium	10400		500		ug/L		09/20/22 05:39	09/20/22 15:14	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:14	1
Potassium	1750		1000		ug/L		09/20/22 05:39	09/20/22 15:14	1
Sodium	40300		2000		ug/L		09/20/22 05:39	09/20/22 15:14	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:11	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Barium	107		5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:11	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:11	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:11	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38186

Lab Sample ID: 680-221296-19

Date Collected: 07/13/22 15:31

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	99000		500		ug/L		09/20/22 05:22	09/20/22 16:34	1
Iron	187		100		ug/L		09/20/22 05:22	09/20/22 16:34	1
Magnesium	7950		500		ug/L		09/20/22 05:22	09/20/22 16:34	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:34	1
Potassium	4510		1000		ug/L		09/20/22 05:22	09/20/22 16:34	1
Sodium	26200		2000		ug/L		09/20/22 05:22	09/20/22 16:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:11	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:11	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:11	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:11	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38187

Lab Sample ID: 680-221296-20

Date Collected: 07/11/22 10:30

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58600		500		ug/L		09/20/22 05:22	09/20/22 16:42	1
Iron	2920		100		ug/L		09/20/22 05:22	09/20/22 16:42	1
Magnesium	2010		500		ug/L		09/20/22 05:22	09/20/22 16:42	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:42	1
Potassium	1910		1000		ug/L		09/20/22 05:22	09/20/22 16:42	1
Sodium	9720		2000		ug/L		09/20/22 05:22	09/20/22 16:42	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:30	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Barium	9.68		5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:30	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:30	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:30	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38188

Lab Sample ID: 680-221296-21

Date Collected: 07/11/22 11:41

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19400		500		ug/L		09/20/22 05:22	09/20/22 16:44	1
Iron	542		100		ug/L		09/20/22 05:22	09/20/22 16:44	1
Magnesium	1700		500		ug/L		09/20/22 05:22	09/20/22 16:44	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:44	1
Potassium	1000	U	1000		ug/L		09/20/22 05:22	09/20/22 16:44	1
Sodium	3680		2000		ug/L		09/20/22 05:22	09/20/22 16:44	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	173		100		ug/L		09/20/22 05:22	09/20/22 21:34	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Barium	45.8		5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:34	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:34	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:34	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38189

Lab Sample ID: 680-221296-22

Date Collected: 07/11/22 11:46

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20000		500		ug/L		09/20/22 05:43	09/20/22 15:59	1
Iron	573		100		ug/L		09/20/22 05:43	09/20/22 15:59	1
Magnesium	1780		500		ug/L		09/20/22 05:43	09/20/22 15:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:43	09/20/22 15:59	1
Potassium	1000	U	1000		ug/L		09/20/22 05:43	09/20/22 15:59	1
Sodium	3870		2000		ug/L		09/20/22 05:43	09/20/22 15:59	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	155		100		ug/L		09/20/22 05:43	09/21/22 00:21	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Barium	39.4		5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:43	09/21/22 00:21	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38190

Lab Sample ID: 680-221296-23

Date Collected: 07/06/22 10:23

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2520		500		ug/L		09/20/22 05:39	09/20/22 15:36	1
Iron	352		100		ug/L		09/20/22 05:39	09/20/22 15:36	1
Magnesium	897		500		ug/L		09/20/22 05:39	09/20/22 15:36	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:36	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 15:36	1
Sodium	2670		2000		ug/L		09/20/22 05:39	09/20/22 15:36	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	963		100		ug/L		09/20/22 05:39	09/20/22 23:46	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Barium	38.3		5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Cobalt	3.15		0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:46	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:46	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:46	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38191

Lab Sample ID: 680-221296-24

Date Collected: 07/12/22 10:44

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	55900		500		ug/L		09/20/22 05:39	09/20/22 15:21	1
Iron	3280		100		ug/L		09/20/22 05:39	09/20/22 15:21	1
Magnesium	2240		500		ug/L		09/20/22 05:39	09/20/22 15:21	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:21	1
Potassium	3170		1000		ug/L		09/20/22 05:39	09/20/22 15:21	1
Sodium	11500		2000		ug/L		09/20/22 05:39	09/20/22 15:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	985		100		ug/L		09/20/22 05:39	09/20/22 23:15	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Barium	113		5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:15	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:15	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:15	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38192

Lab Sample ID: 680-221296-25

Date Collected: 07/12/22 14:55

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	337000		500		ug/L		09/20/22 05:39	09/20/22 15:44	1
Iron	10300		100		ug/L		09/20/22 05:39	09/20/22 15:44	1
Magnesium	9370		500		ug/L		09/20/22 05:39	09/20/22 15:44	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:44	1
Potassium	4370		1000		ug/L		09/20/22 05:39	09/20/22 15:44	1
Sodium	9600		2000		ug/L		09/20/22 05:39	09/20/22 15:44	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	149		100		ug/L		09/20/22 05:39	09/20/22 23:58	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Barium	32.7		5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:58	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:58	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:58	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38193

Lab Sample ID: 680-221296-26

Date Collected: 07/11/22 13:38

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	23800		500		ug/L		09/20/22 05:22	09/20/22 16:32	1
Iron	2860		100		ug/L		09/20/22 05:22	09/20/22 16:32	1
Magnesium	655		500		ug/L		09/20/22 05:22	09/20/22 16:32	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:32	1
Potassium	1000	U	1000		ug/L		09/20/22 05:22	09/20/22 16:32	1
Sodium	2000	U	2000		ug/L		09/20/22 05:22	09/20/22 16:32	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2250		100		ug/L		09/20/22 05:22	09/20/22 21:07	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Barium	51.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Cobalt	1.91		0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:07	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:07	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:07	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38194

Lab Sample ID: 680-221296-27

Date Collected: 07/11/22 14:41

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17600	F1	500		ug/L		09/20/22 05:39	09/20/22 15:04	1
Calcium	14600		500		ug/L		09/28/22 09:50	09/29/22 09:40	1
Iron	477		100		ug/L		09/20/22 05:39	09/20/22 15:04	1
Iron	399		100		ug/L		09/28/22 09:50	09/29/22 09:40	1
Magnesium	500	U	500		ug/L		09/20/22 05:39	09/20/22 15:04	1
Magnesium	500	U	500		ug/L		09/28/22 09:50	09/29/22 09:40	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:04	1
Molybdenum	10.0	U	10.0		ug/L		09/28/22 09:50	09/29/22 09:40	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 15:04	1
Potassium	1000	U	1000		ug/L		09/28/22 09:50	09/29/22 09:40	1
Sodium	2380		2000		ug/L		09/20/22 05:39	09/20/22 15:04	1
Sodium	2010		2000		ug/L		09/28/22 09:50	09/29/22 09:40	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3180		100		ug/L		09/20/22 05:39	09/20/22 22:56	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Arsenic	6.95		3.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Barium	32.4		5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Cobalt	0.885		0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:56	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:56	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 22:56	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38195

Lab Sample ID: 680-221296-28

Date Collected: 07/11/22 15:35

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	71200		500		ug/L		09/20/22 05:22	09/20/22 17:04	1
Iron	2520		100		ug/L		09/20/22 05:22	09/20/22 17:04	1
Magnesium	1280		500		ug/L		09/20/22 05:22	09/20/22 17:04	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 17:04	1
Potassium	1260		1000		ug/L		09/20/22 05:22	09/20/22 17:04	1
Sodium	2700		2000		ug/L		09/20/22 05:22	09/20/22 17:04	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	131		100		ug/L		09/20/22 05:22	09/20/22 21:58	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Barium	35.0		5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:58	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:58	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:58	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38196

Lab Sample ID: 680-221296-29

Date Collected: 07/11/22 15:40

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	60400		500		ug/L		09/20/22 05:22	09/20/22 16:27	1
Iron	2120		100		ug/L		09/20/22 05:22	09/20/22 16:27	1
Magnesium	1100		500		ug/L		09/20/22 05:22	09/20/22 16:27	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:27	1
Potassium	1060		1000		ug/L		09/20/22 05:22	09/20/22 16:27	1
Sodium	2310		2000		ug/L		09/20/22 05:22	09/20/22 16:27	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	165		100		ug/L		09/20/22 05:22	09/20/22 20:59	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Barium	42.8		5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:59	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:59	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 20:59	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38197

Lab Sample ID: 680-221296-30

Date Collected: 07/12/22 13:58

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	272000		500		ug/L		09/20/22 05:22	09/20/22 16:57	1
Iron	2870		100		ug/L		09/20/22 05:22	09/20/22 16:57	1
Magnesium	25900		500		ug/L		09/20/22 05:22	09/20/22 16:57	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:57	1
Potassium	6390		1000		ug/L		09/20/22 05:22	09/20/22 16:57	1
Sodium	15600		2000		ug/L		09/20/22 05:22	09/20/22 16:57	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:46	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Barium	39.5		5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:46	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:46	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Zinc	22.4		20.0		ug/L		09/20/22 05:22	09/20/22 21:46	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38198

Lab Sample ID: 680-221296-31

Date Collected: 07/07/22 12:37

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	95400		500		ug/L		09/20/22 05:39	09/20/22 15:52	1
Iron	1560		100		ug/L		09/20/22 05:39	09/20/22 15:52	1
Magnesium	7170		500		ug/L		09/20/22 05:39	09/20/22 15:52	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:52	1
Potassium	4910		1000		ug/L		09/20/22 05:39	09/20/22 15:52	1
Sodium	21600		2000		ug/L		09/20/22 05:39	09/20/22 15:52	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	428		100		ug/L		09/20/22 05:39	09/21/22 00:02	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Arsenic	106		3.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Barium	72.5		5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Cobalt	1.45		0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:02	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:02	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:02	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38199

Lab Sample ID: 680-221296-32

Date Collected: 07/07/22 11:37

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	94200		500		ug/L		09/20/22 05:22	09/20/22 16:37	1
Iron	2670		100		ug/L		09/20/22 05:22	09/20/22 16:37	1
Magnesium	3430		500		ug/L		09/20/22 05:22	09/20/22 16:37	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:37	1
Potassium	3500		1000		ug/L		09/20/22 05:22	09/20/22 16:37	1
Sodium	9770		2000		ug/L		09/20/22 05:22	09/20/22 16:37	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:23	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Arsenic	242		3.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Barium	60.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Cobalt	0.620		0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:23	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:23	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:23	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38200

Lab Sample ID: 680-221296-33

Date Collected: 07/14/22 11:50

Matrix: Water

Date Received: 09/16/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	131000		500		ug/L		09/20/22 05:22	09/20/22 17:02	1
Iron	448		100		ug/L		09/20/22 05:22	09/20/22 17:02	1
Magnesium	7380		500		ug/L		09/20/22 05:22	09/20/22 17:02	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 17:02	1
Potassium	4190		1000		ug/L		09/20/22 05:22	09/20/22 17:02	1
Sodium	5810		2000		ug/L		09/20/22 05:22	09/20/22 17:02	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:54	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Arsenic	3.70		3.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Barium	36.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:54	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:54	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:54	1

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-741164/1-A
Matrix: Water
Analysis Batch: 741353

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741164

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		09/20/22 05:03	09/20/22 16:02	1
Iron	100	U	100		ug/L		09/20/22 05:03	09/20/22 16:02	1
Magnesium	500	U	500		ug/L		09/20/22 05:03	09/20/22 16:02	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:03	09/20/22 16:02	1
Potassium	1000	U	1000		ug/L		09/20/22 05:03	09/20/22 16:02	1
Sodium	2000	U	2000		ug/L		09/20/22 05:03	09/20/22 16:02	1

Lab Sample ID: LCS 680-741164/2-A
Matrix: Water
Analysis Batch: 741353

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	4673		ug/L		93	80 - 120
Magnesium	5010	4559		ug/L		91	80 - 120
Molybdenum	100	94.69		ug/L		95	80 - 120
Potassium	6970	6518		ug/L		94	80 - 120
Sodium	5050	4561		ug/L		90	80 - 120

Lab Sample ID: MB 680-741168/1-A
Matrix: Water
Analysis Batch: 741362

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		09/20/22 05:39	09/20/22 14:59	1
Iron	100	U	100		ug/L		09/20/22 05:39	09/20/22 14:59	1
Magnesium	500	U	500		ug/L		09/20/22 05:39	09/20/22 14:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 14:59	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 14:59	1
Sodium	2000	U	2000		ug/L		09/20/22 05:39	09/20/22 14:59	1

Lab Sample ID: LCS 680-741168/2-A
Matrix: Water
Analysis Batch: 741362

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	4471		ug/L		89	80 - 120
Magnesium	5010	4398		ug/L		88	80 - 120
Molybdenum	100	91.51		ug/L		92	80 - 120
Potassium	6970	6275		ug/L		90	80 - 120
Sodium	5050	4387		ug/L		87	80 - 120

Lab Sample ID: 680-221296-27 MS
Matrix: Water
Analysis Batch: 741362

Client Sample ID: AF38194
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits

Eurofins Savannah

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-221296-27 MS

Matrix: Water

Analysis Batch: 741362

Client Sample ID: AF38194

Prep Type: Total Recoverable

Prep Batch: 741168

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Iron	477		5000	5014		ug/L		91	75 - 125	
Magnesium	500	U	5010	4882		ug/L		88	75 - 125	
Molybdenum	10.0	U	100	92.76		ug/L		93	75 - 125	
Potassium	1000	U	6970	6946		ug/L		91	75 - 125	
Sodium	2380		5050	6698		ug/L		86	75 - 125	

Lab Sample ID: 680-221296-27 MSD

Matrix: Water

Analysis Batch: 741362

Client Sample ID: AF38194

Prep Type: Total Recoverable

Prep Batch: 741168

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Calcium	17600	F1	5000	20220	F1	ug/L		52	75 - 125		5	20
Iron	477		5000	4786		ug/L		86	75 - 125		5	20
Magnesium	500	U	5010	4683		ug/L		84	75 - 125		4	20
Molybdenum	10.0	U	100	89.00		ug/L		89	75 - 125		4	20
Potassium	1000	U	6970	6638		ug/L		87	75 - 125		5	20
Sodium	2380		5050	6425		ug/L		80	75 - 125		4	20

Lab Sample ID: MB 680-741508/1-A

Matrix: Water

Analysis Batch: 741586

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 741508

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Calcium	500	U	500		ug/L		09/21/22 13:44	09/21/22 18:29			1
Iron	100	U	100		ug/L		09/21/22 13:44	09/21/22 18:29			1
Magnesium	500	U	500		ug/L		09/21/22 13:44	09/21/22 18:29			1
Molybdenum	10.0	U	10.0		ug/L		09/21/22 13:44	09/21/22 18:29			1
Potassium	1000	U	1000		ug/L		09/21/22 13:44	09/21/22 18:29			1
Sodium	2000	U	2000		ug/L		09/21/22 13:44	09/21/22 18:29			1

Lab Sample ID: LCS 680-741508/2-A

Matrix: Water

Analysis Batch: 741586

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 741508

Analyte	Spike	LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Calcium	5000	4999		ug/L		100	80 - 120	
Iron	5000	5032		ug/L		101	80 - 120	
Magnesium	5010	5082		ug/L		101	80 - 120	
Molybdenum	100	99.43		ug/L		99	80 - 120	
Potassium	6970	7167		ug/L		103	80 - 120	
Sodium	5050	5000		ug/L		99	80 - 120	

Lab Sample ID: MB 680-742555/1-A

Matrix: Water

Analysis Batch: 742783

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 742555

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Calcium	500	U	500		ug/L		09/28/22 09:50	09/29/22 08:50			1
Iron	100	U	100		ug/L		09/28/22 09:50	09/29/22 08:50			1
Magnesium	500	U	500		ug/L		09/28/22 09:50	09/29/22 08:50			1

Eurofins Savannah

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 680-742555/1-A
Matrix: Water
Analysis Batch: 742783

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742555

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Molybdenum	10.0	U	10.0		ug/L		09/28/22 09:50	09/29/22 08:50	1
Potassium	1000	U	1000		ug/L		09/28/22 09:50	09/29/22 08:50	1
Sodium	2000	U	2000		ug/L		09/28/22 09:50	09/29/22 08:50	1

Lab Sample ID: LCS 680-742555/2-A
Matrix: Water
Analysis Batch: 742783

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	4818		ug/L		96	80 - 120
Magnesium	5010	5028		ug/L		100	80 - 120
Molybdenum	100	91.89		ug/L		92	80 - 120
Potassium	6970	7059		ug/L		101	80 - 120
Sodium	5050	4694		ug/L		93	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-741166/1-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741166

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	100	U	100		ug/L		09/20/22 05:03	09/20/22 20:36	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:03	09/20/22 20:36	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:03	09/20/22 20:36	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:03	09/20/22 20:36	1

Lab Sample ID: LCS 680-741166/2-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	56.11		ug/L		112	80 - 120
Arsenic	100	105.2		ug/L		105	80 - 120
Barium	100	103.7		ug/L		104	80 - 120
Beryllium	50.0	51.98		ug/L		104	80 - 120
Cadmium	50.0	56.02		ug/L		112	80 - 120
Chromium	100	113.3	^6+	ug/L		113	80 - 120

Eurofins Savannah

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-741166/2-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec Limits
Cobalt	50.0	55.31		ug/L		111	80 - 120
Copper	100	120.0		ug/L		120	80 - 120
Lead	505	516.0		ug/L		102	80 - 120
Nickel	99.0	111.2		ug/L		112	80 - 120
Selenium	100	110.0		ug/L		110	80 - 120
Thallium	50.0	52.52		ug/L		105	80 - 120
Zinc	100	109.2		ug/L		109	80 - 120

Lab Sample ID: MB 680-741169/1-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 22:48	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:48	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:48	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:48	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:48	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:48	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 22:48	1

Lab Sample ID: LCS 680-741169/2-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec Limits
Aluminum	5000	5260		ug/L		105	80 - 120
Antimony	50.0	52.26		ug/L		105	80 - 120
Arsenic	100	96.83		ug/L		97	80 - 120
Barium	100	96.34		ug/L		96	80 - 120
Beryllium	50.0	47.57		ug/L		95	80 - 120
Cadmium	50.0	52.57		ug/L		105	80 - 120
Chromium	100	105.1	^6+	ug/L		105	80 - 120
Cobalt	50.0	52.87		ug/L		106	80 - 120
Copper	100	112.8		ug/L		113	80 - 120
Lead	505	478.5		ug/L		95	80 - 120
Nickel	99.0	105.6		ug/L		107	80 - 120
Selenium	100	103.8		ug/L		104	80 - 120
Thallium	50.0	49.34		ug/L		99	80 - 120
Zinc	100	103.1		ug/L		103	80 - 120

Eurofins Savannah

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-221296-27 MS

Matrix: Water

Analysis Batch: 741389

Client Sample ID: AF38194

Prep Type: Total Recoverable

Prep Batch: 741169

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Aluminum	3180		5000	7812		ug/L		93	75 - 125	
Antimony	5.00	U	50.0	49.36		ug/L		99	75 - 125	
Arsenic	6.95		100	103.4		ug/L		96	75 - 125	
Barium	32.4		100	125.1		ug/L		93	75 - 125	
Beryllium	0.500	U	50.0	44.78		ug/L		89	75 - 125	
Cadmium	0.500	U	50.0	51.08		ug/L		102	75 - 125	
Chromium	5.00	U ^6+	100	100.3	^6+	ug/L		100	75 - 125	
Cobalt	0.885		50.0	53.02		ug/L		104	75 - 125	
Copper	5.00	U	100	109.8		ug/L		110	75 - 125	
Lead	2.50	U	505	467.1		ug/L		93	75 - 125	
Nickel	5.00	U	99.0	103.4		ug/L		104	75 - 125	
Selenium	2.50	U	100	99.73		ug/L		100	75 - 125	
Thallium	1.00	U	50.0	47.74		ug/L		95	75 - 125	
Zinc	20.0	U	100	100.9		ug/L		101	75 - 125	

Lab Sample ID: 680-221296-27 MSD

Matrix: Water

Analysis Batch: 741389

Client Sample ID: AF38194

Prep Type: Total Recoverable

Prep Batch: 741169

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Aluminum	3180		5000	8042		ug/L		97	75 - 125	3	20	
Antimony	5.00	U	50.0	50.69		ug/L		101	75 - 125	3	20	
Arsenic	6.95		100	102.2		ug/L		95	75 - 125	1	20	
Barium	32.4		100	125.3		ug/L		93	75 - 125	0	20	
Beryllium	0.500	U	50.0	44.51		ug/L		88	75 - 125	1	20	
Cadmium	0.500	U	50.0	52.84		ug/L		106	75 - 125	3	20	
Chromium	5.00	U ^6+	100	101.8	^6+	ug/L		102	75 - 125	2	20	
Cobalt	0.885		50.0	52.19		ug/L		103	75 - 125	2	20	
Copper	5.00	U	100	112.1		ug/L		112	75 - 125	2	20	
Lead	2.50	U	505	474.1		ug/L		94	75 - 125	2	20	
Nickel	5.00	U	99.0	103.9		ug/L		105	75 - 125	1	20	
Selenium	2.50	U	100	98.50		ug/L		98	75 - 125	1	20	
Thallium	1.00	U	50.0	48.52		ug/L		97	75 - 125	2	20	
Zinc	20.0	U	100	101.8		ug/L		102	75 - 125	1	20	

Lab Sample ID: MB 680-741235/1-A

Matrix: Water

Analysis Batch: 741576

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 741235

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Aluminum	100	U	100		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Antimony	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Arsenic	3.00	U	3.00		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Barium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Beryllium	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Cadmium	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Chromium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Cobalt	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29		1	
Copper	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29		1	

Eurofins Savannah

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-741235/1-A
Matrix: Water
Analysis Batch: 741576

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741235

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Lead	2.50	U	2.50		ug/L		09/20/22 10:24	09/22/22 01:29	1
Nickel	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Selenium	2.50	U	2.50		ug/L		09/20/22 10:24	09/22/22 01:29	1
Thallium	1.00	U	1.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Zinc	20.0	U	20.0		ug/L		09/20/22 10:24	09/22/22 01:29	1

Lab Sample ID: LCS 680-741235/2-A
Matrix: Water
Analysis Batch: 741576

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5232		ug/L		105	80 - 120
Antimony	50.0	48.78		ug/L		98	80 - 120
Arsenic	100	97.45		ug/L		97	80 - 120
Barium	100	100.6		ug/L		101	80 - 120
Beryllium	50.0	49.39		ug/L		99	80 - 120
Cadmium	50.0	51.36		ug/L		103	80 - 120
Chromium	100	102.6		ug/L		103	80 - 120
Cobalt	50.0	53.39		ug/L		107	80 - 120
Copper	100	112.7		ug/L		113	80 - 120
Lead	505	493.6		ug/L		98	80 - 120
Nickel	99.0	105.8		ug/L		107	80 - 120
Selenium	100	105.2		ug/L		105	80 - 120
Thallium	50.0	50.37		ug/L		101	80 - 120
Zinc	100	107.5		ug/L		107	80 - 120

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Metals

Prep Batch: 741164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	3005A	
680-221296-5	AF38172	Total Recoverable	Water	3005A	
680-221296-6	AF38173	Total Recoverable	Water	3005A	
680-221296-7	AF38174	Total Recoverable	Water	3005A	
680-221296-15	AF38182	Total Recoverable	Water	3005A	
680-221296-17	AF38184	Total Recoverable	Water	3005A	
680-221296-19	AF38186	Total Recoverable	Water	3005A	
680-221296-20	AF38187	Total Recoverable	Water	3005A	
680-221296-21	AF38188	Total Recoverable	Water	3005A	
680-221296-26	AF38193	Total Recoverable	Water	3005A	
680-221296-28	AF38195	Total Recoverable	Water	3005A	
680-221296-29	AF38196	Total Recoverable	Water	3005A	
680-221296-30	AF38197	Total Recoverable	Water	3005A	
680-221296-32	AF38199	Total Recoverable	Water	3005A	
680-221296-33	AF38200	Total Recoverable	Water	3005A	
MB 680-741164/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741164/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 741166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	3005A	
680-221296-5	AF38172	Total Recoverable	Water	3005A	
680-221296-6	AF38173	Total Recoverable	Water	3005A	
680-221296-7	AF38174	Total Recoverable	Water	3005A	
680-221296-15	AF38182	Total Recoverable	Water	3005A	
680-221296-17	AF38184	Total Recoverable	Water	3005A	
680-221296-19	AF38186	Total Recoverable	Water	3005A	
680-221296-20	AF38187	Total Recoverable	Water	3005A	
680-221296-21	AF38188	Total Recoverable	Water	3005A	
680-221296-26	AF38193	Total Recoverable	Water	3005A	
680-221296-28	AF38195	Total Recoverable	Water	3005A	
680-221296-29	AF38196	Total Recoverable	Water	3005A	
680-221296-30	AF38197	Total Recoverable	Water	3005A	
680-221296-32	AF38199	Total Recoverable	Water	3005A	
680-221296-33	AF38200	Total Recoverable	Water	3005A	
MB 680-741166/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741166/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 741168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	3005A	
680-221296-2	AF38169	Total Recoverable	Water	3005A	
680-221296-4	AF38171	Total Recoverable	Water	3005A	
680-221296-8	AF38175	Total Recoverable	Water	3005A	
680-221296-9	AF38176	Total Recoverable	Water	3005A	
680-221296-10	AF38177	Total Recoverable	Water	3005A	
680-221296-11	AF38178	Total Recoverable	Water	3005A	
680-221296-12	AF38179	Total Recoverable	Water	3005A	
680-221296-13	AF38180	Total Recoverable	Water	3005A	
680-221296-14	AF38181	Total Recoverable	Water	3005A	
680-221296-18	AF38185	Total Recoverable	Water	3005A	

Eurofins Savannah

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Metals (Continued)

Prep Batch: 741168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-22	AF38189	Total Recoverable	Water	3005A	
680-221296-23	AF38190	Total Recoverable	Water	3005A	
680-221296-24	AF38191	Total Recoverable	Water	3005A	
680-221296-25	AF38192	Total Recoverable	Water	3005A	
680-221296-27	AF38194	Total Recoverable	Water	3005A	
680-221296-31	AF38198	Total Recoverable	Water	3005A	
MB 680-741168/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741168/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-221296-27 MS	AF38194	Total Recoverable	Water	3005A	
680-221296-27 MSD	AF38194	Total Recoverable	Water	3005A	

Prep Batch: 741169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	3005A	
680-221296-2	AF38169	Total Recoverable	Water	3005A	
680-221296-4	AF38171	Total Recoverable	Water	3005A	
680-221296-8	AF38175	Total Recoverable	Water	3005A	
680-221296-9	AF38176	Total Recoverable	Water	3005A	
680-221296-10	AF38177	Total Recoverable	Water	3005A	
680-221296-11	AF38178	Total Recoverable	Water	3005A	
680-221296-12	AF38179	Total Recoverable	Water	3005A	
680-221296-13	AF38180	Total Recoverable	Water	3005A	
680-221296-14	AF38181	Total Recoverable	Water	3005A	
680-221296-18	AF38185	Total Recoverable	Water	3005A	
680-221296-22	AF38189	Total Recoverable	Water	3005A	
680-221296-23	AF38190	Total Recoverable	Water	3005A	
680-221296-24	AF38191	Total Recoverable	Water	3005A	
680-221296-25	AF38192	Total Recoverable	Water	3005A	
680-221296-27	AF38194	Total Recoverable	Water	3005A	
680-221296-31	AF38198	Total Recoverable	Water	3005A	
MB 680-741169/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741169/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-221296-27 MS	AF38194	Total Recoverable	Water	3005A	
680-221296-27 MSD	AF38194	Total Recoverable	Water	3005A	

Prep Batch: 741235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	3005A	
MB 680-741235/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741235/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 741353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	6010D	741164
680-221296-5	AF38172	Total Recoverable	Water	6010D	741164
680-221296-6	AF38173	Total Recoverable	Water	6010D	741164
680-221296-7	AF38174	Total Recoverable	Water	6010D	741164
680-221296-15	AF38182	Total Recoverable	Water	6010D	741164
680-221296-17	AF38184	Total Recoverable	Water	6010D	741164
680-221296-19	AF38186	Total Recoverable	Water	6010D	741164
680-221296-20	AF38187	Total Recoverable	Water	6010D	741164

Eurofins Savannah

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Metals (Continued)

Analysis Batch: 741353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-21	AF38188	Total Recoverable	Water	6010D	741164
680-221296-26	AF38193	Total Recoverable	Water	6010D	741164
680-221296-28	AF38195	Total Recoverable	Water	6010D	741164
680-221296-29	AF38196	Total Recoverable	Water	6010D	741164
680-221296-30	AF38197	Total Recoverable	Water	6010D	741164
680-221296-32	AF38199	Total Recoverable	Water	6010D	741164
680-221296-33	AF38200	Total Recoverable	Water	6010D	741164
MB 680-741164/1-A	Method Blank	Total Recoverable	Water	6010D	741164
LCS 680-741164/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741164

Analysis Batch: 741362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	6010D	741168
680-221296-2	AF38169	Total Recoverable	Water	6010D	741168
680-221296-4	AF38171	Total Recoverable	Water	6010D	741168
680-221296-8	AF38175	Total Recoverable	Water	6010D	741168
680-221296-9	AF38176	Total Recoverable	Water	6010D	741168
680-221296-10	AF38177	Total Recoverable	Water	6010D	741168
680-221296-11	AF38178	Total Recoverable	Water	6010D	741168
680-221296-12	AF38179	Total Recoverable	Water	6010D	741168
680-221296-13	AF38180	Total Recoverable	Water	6010D	741168
680-221296-14	AF38181	Total Recoverable	Water	6010D	741168
680-221296-18	AF38185	Total Recoverable	Water	6010D	741168
680-221296-22	AF38189	Total Recoverable	Water	6010D	741168
680-221296-23	AF38190	Total Recoverable	Water	6010D	741168
680-221296-24	AF38191	Total Recoverable	Water	6010D	741168
680-221296-25	AF38192	Total Recoverable	Water	6010D	741168
680-221296-27	AF38194	Total Recoverable	Water	6010D	741168
680-221296-31	AF38198	Total Recoverable	Water	6010D	741168
MB 680-741168/1-A	Method Blank	Total Recoverable	Water	6010D	741168
LCS 680-741168/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741168
680-221296-27 MS	AF38194	Total Recoverable	Water	6010D	741168
680-221296-27 MSD	AF38194	Total Recoverable	Water	6010D	741168

Analysis Batch: 741389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	6020B	741169
680-221296-2	AF38169	Total Recoverable	Water	6020B	741169
680-221296-3	AF38170	Total Recoverable	Water	6020B	741166
680-221296-4	AF38171	Total Recoverable	Water	6020B	741169
680-221296-5	AF38172	Total Recoverable	Water	6020B	741166
680-221296-6	AF38173	Total Recoverable	Water	6020B	741166
680-221296-7	AF38174	Total Recoverable	Water	6020B	741166
680-221296-8	AF38175	Total Recoverable	Water	6020B	741169
680-221296-9	AF38176	Total Recoverable	Water	6020B	741169
680-221296-10	AF38177	Total Recoverable	Water	6020B	741169
680-221296-11	AF38178	Total Recoverable	Water	6020B	741169
680-221296-12	AF38179	Total Recoverable	Water	6020B	741169
680-221296-13	AF38180	Total Recoverable	Water	6020B	741169
680-221296-14	AF38181	Total Recoverable	Water	6020B	741169
680-221296-15	AF38182	Total Recoverable	Water	6020B	741166

Eurofins Savannah

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Metals (Continued)

Analysis Batch: 741389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-17	AF38184	Total Recoverable	Water	6020B	741166
680-221296-18	AF38185	Total Recoverable	Water	6020B	741169
680-221296-19	AF38186	Total Recoverable	Water	6020B	741166
680-221296-20	AF38187	Total Recoverable	Water	6020B	741166
680-221296-21	AF38188	Total Recoverable	Water	6020B	741166
680-221296-22	AF38189	Total Recoverable	Water	6020B	741169
680-221296-23	AF38190	Total Recoverable	Water	6020B	741169
680-221296-24	AF38191	Total Recoverable	Water	6020B	741169
680-221296-25	AF38192	Total Recoverable	Water	6020B	741169
680-221296-26	AF38193	Total Recoverable	Water	6020B	741166
680-221296-27	AF38194	Total Recoverable	Water	6020B	741169
680-221296-28	AF38195	Total Recoverable	Water	6020B	741166
680-221296-29	AF38196	Total Recoverable	Water	6020B	741166
680-221296-30	AF38197	Total Recoverable	Water	6020B	741166
680-221296-31	AF38198	Total Recoverable	Water	6020B	741169
680-221296-32	AF38199	Total Recoverable	Water	6020B	741166
680-221296-33	AF38200	Total Recoverable	Water	6020B	741166
MB 680-741166/1-A	Method Blank	Total Recoverable	Water	6020B	741166
MB 680-741169/1-A	Method Blank	Total Recoverable	Water	6020B	741169
LCS 680-741166/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741166
LCS 680-741169/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741169
680-221296-27 MS	AF38194	Total Recoverable	Water	6020B	741169
680-221296-27 MSD	AF38194	Total Recoverable	Water	6020B	741169

Prep Batch: 741508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	3005A	
MB 680-741508/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741508/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 741576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	6020B	741235
MB 680-741235/1-A	Method Blank	Total Recoverable	Water	6020B	741235
LCS 680-741235/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741235

Analysis Batch: 741586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-4	AF38171	Total Recoverable	Water	6010D	741168
680-221296-5	AF38172	Total Recoverable	Water	6010D	741164
680-221296-6	AF38173	Total Recoverable	Water	6010D	741164
680-221296-16	AF38183	Total Recoverable	Water	6010D	741508
MB 680-741508/1-A	Method Blank	Total Recoverable	Water	6010D	741508
LCS 680-741508/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741508

Prep Batch: 742555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-27	AF38194	Total Recoverable	Water	3005A	
MB 680-742555/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-742555/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Metals

Analysis Batch: 742783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-27	AF38194	Total Recoverable	Water	6010D	742555
MB 680-742555/1-A	Method Blank	Total Recoverable	Water	6010D	742555
LCS 680-742555/2-A	Lab Control Sample	Total Recoverable	Water	6010D	742555

- 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: 680-221296-1

Client Sample ID: AF38168

Lab Sample ID: 680-221296-1

Date Collected: 07/06/22 14:06

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:29
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:35

Client Sample ID: AF38169

Lab Sample ID: 680-221296-2

Date Collected: 07/06/22 14:11

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:11
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:07

Client Sample ID: AF38170

Lab Sample ID: 680-221296-3

Date Collected: 07/18/22 13:12

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:24
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 20:55

Client Sample ID: AF38171

Lab Sample ID: 680-221296-4

Date Collected: 07/20/22 14:12

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:41
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:27
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:54

Client Sample ID: AF38172

Lab Sample ID: 680-221296-5

Date Collected: 07/20/22 14:17

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:54
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:33

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38172

Lab Sample ID: 680-221296-5

Date Collected: 07/20/22 14:17

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:42

Client Sample ID: AF38173

Lab Sample ID: 680-221296-6

Date Collected: 07/20/22 11:00

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:39
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:30
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:26

Client Sample ID: AF38174

Lab Sample ID: 680-221296-7

Date Collected: 07/20/22 12:20

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:59
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:50

Client Sample ID: AF38175

Lab Sample ID: 680-221296-8

Date Collected: 07/20/22 13:17

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:39
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:50

Client Sample ID: AF38176

Lab Sample ID: 680-221296-9

Date Collected: 07/18/22 14:30

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:57
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:09

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38177

Lab Sample ID: 680-221296-10

Date Collected: 07/14/22 12:48

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:31
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:39

Client Sample ID: AF38178

Lab Sample ID: 680-221296-11

Date Collected: 07/12/22 12:35

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:54
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:06

Client Sample ID: AF38179

Lab Sample ID: 680-221296-12

Date Collected: 07/12/22 12:40

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:34
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:42

Client Sample ID: AF38180

Lab Sample ID: 680-221296-13

Date Collected: 07/07/22 14:43

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:26
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:23

Client Sample ID: AF38181

Lab Sample ID: 680-221296-14

Date Collected: 07/13/22 11:08

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:24
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:19

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38182

Lab Sample ID: 680-221296-15

Date Collected: 07/28/22 11:00

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:29
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:03

Client Sample ID: AF38183

Lab Sample ID: 680-221296-16

Date Collected: 07/14/22 10:45

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741508	BCB	EET SAV	09/21/22 13:44
Total Recoverable	Analysis	6010D		1	741586	BJB	EET SAV	09/21/22 18:45
Total Recoverable	Prep	3005A			741235	RR	EET SAV	09/20/22 10:24
Total Recoverable	Analysis	6020B		1	741576	BWR	EET SAV	09/22/22 02:15

Client Sample ID: AF38184

Lab Sample ID: 680-221296-17

Date Collected: 07/07/22 13:44

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:52
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:38

Client Sample ID: AF38185

Lab Sample ID: 680-221296-18

Date Collected: 07/13/22 12:25

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:14
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:11

Client Sample ID: AF38186

Lab Sample ID: 680-221296-19

Date Collected: 07/13/22 15:31

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:34
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:11

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38187

Lab Sample ID: 680-221296-20

Date Collected: 07/11/22 10:30

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:42
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:30

Client Sample ID: AF38188

Lab Sample ID: 680-221296-21

Date Collected: 07/11/22 11:41

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:44
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:34

Client Sample ID: AF38189

Lab Sample ID: 680-221296-22

Date Collected: 07/11/22 11:46

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:43
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:59
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:43
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:21

Client Sample ID: AF38190

Lab Sample ID: 680-221296-23

Date Collected: 07/06/22 10:23

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:36
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:46

Client Sample ID: AF38191

Lab Sample ID: 680-221296-24

Date Collected: 07/12/22 10:44

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:21
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:15

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38192

Lab Sample ID: 680-221296-25

Date Collected: 07/12/22 14:55

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:44
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:58

Client Sample ID: AF38193

Lab Sample ID: 680-221296-26

Date Collected: 07/11/22 13:38

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:32
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:07

Client Sample ID: AF38194

Lab Sample ID: 680-221296-27

Date Collected: 07/11/22 14:41

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:04
Total Recoverable	Prep	3005A			742555	RR	EET SAV	09/28/22 09:50
Total Recoverable	Analysis	6010D		1	742783	BJB	EET SAV	09/29/22 09:40
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 22:56

Client Sample ID: AF38195

Lab Sample ID: 680-221296-28

Date Collected: 07/11/22 15:35

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 17:04
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:58

Client Sample ID: AF38196

Lab Sample ID: 680-221296-29

Date Collected: 07/11/22 15:40

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:27
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 20:59

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38197

Lab Sample ID: 680-221296-30

Date Collected: 07/12/22 13:58

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:57
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:46

Client Sample ID: AF38198

Lab Sample ID: 680-221296-31

Date Collected: 07/07/22 12:37

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:52
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:02

Client Sample ID: AF38199

Lab Sample ID: 680-221296-32

Date Collected: 07/07/22 11:37

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:37
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:23

Client Sample ID: AF38200

Lab Sample ID: 680-221296-33

Date Collected: 07/14/22 11:50

Matrix: Water

Date Received: 09/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 17:02
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:54

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 #: 125715 / JMO2.09.G01. / 3650 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 BELOW
AF38168	WAP-12	7/6/22	1406	DEW BM	1	P	G	GW	2	USE APPROPRIATE	X
69	12 DUP		1411							METHOD TO MEET RLS	
70	13	7/18	1312							-SEE SHEET FOR RLS	
71	14	7/20	1412	DEW DJ							
72	14 DUP	7/20	1417								
73	14A	7/20	1100								
74	14B		1220								
75	14C		1317								
76	WAP-15	7/18	1430								
77	WAP-27 16	7/14	1248	DEW BM							



680-221296 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sj Brown</i>	35594	9/15/22	1500				

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 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 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 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard Gypsum(all below) <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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <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 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
--	--	--	--	---	--	---

*g 9/16/22 1030
24.1/24.0*

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

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	METALS BELOW
AF38178	WAP 17	7/12	1235	DEW BM	1	P	G	GW	2	EITHER USE METHOD TO MEET RLS	X
79	L 17 DUP	L	1240	L							
80	WAP-18	7/7	1443	DEW DJ						-SEE SHEET FOR RLS	
81	L 19	7/13	1108	DEW BM			L				
82	WAP-20	7/28	1100	DEW			C				
83	WAP-21	7/14	1045	DEW BM			G				
84	WAP-22	7/7	1344	DEW DJ							
85	L 23	7/13	1225	DEW BM							
86	L 24	L	1531	L							
87	WAP-25	7/11	1030	DEW BM							

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	9/15/22	1500				

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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil 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 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
--	--	---	--	---	--	---

g 9/16/22 1030
24.1/24.0

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

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	TOTAL METERS BELOW
AF38188	WAP-26	7/11	1141	LEW DM	1	B	G	GW	2	USE APPROPRIATE METHOD	X
89	WAP-26 DUP	↓	1146							TO MEET RLS.	
90	WBW-1	7/6	1023							SEE SHEET FOR RLS	
91	WBW-A1-1	7/12	1044								
92	WLF A1-1	7/12	1455								
93	WLF-A1-2	7/11	1338								
94	3		1441								
95	4		1535								
96	4 DUP		1540								
97	WLF-A1-5	7/12	1358								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sibrown</i>		9/15/22	1500				

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"/> Sc <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	Nutrients <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	MISC. <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 Collform <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS	Oil <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 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
--	--	--	---	---	--	---

g 9/16/22 1030
24 1/24.0



Chain of Custody

Customer Email/Report Recipient: LCWILLIA@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM62.09 GØ1.1 / 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	METALS SEE BELOW
AF38198	WLF-A2-2	7/7	1237	DEW DJ	1	P	G	GW	2	USE APPROPRIATE METHOD TO MEET RLS	X
99	WLF-A2-1	↓	1137	↓	↓	↓	↓	↓	↓		↓
200	↓ 6	7/14	1150	DEW BM	↓	↓	↓	↓	↓	-SEE SHEET FOR RLS.	↓

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>SJBrown</i>		9/15/22	1500				
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 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			Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Qual. %Moisture Color Acidity Dielectric Strength IFT Dissolved Gases Used Oil Flashpoint Metals in oil (As, Cd, Cr, Ni, Pb, Hg) IX GOFER
--	--	--	--	---	---	---	--	---

g 9/16/22
1030
29.1/24.0
9/30/2022

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: 680-221296-1

Login Number: 221296

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.	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 <math><6\text{mm}</math> (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: 680-221296-1

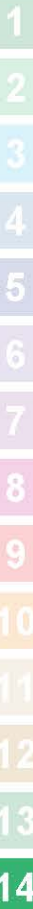
Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah





August 16, 2022

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

Re: ABS Lab Analytical
Work Order: 588993

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 09, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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.

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: 588993 GEL Work Order: 588993

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 See case narrative for an explanation
- 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: August 16, 2022

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: AF41640	Project: SOOP00119
Sample ID: 588993001	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-AUG-22 13:25	
Receive Date: 09-AUG-22	
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		24.0	1.65	5.00	mg/L		5	RM3	08/13/22	1455	2301646	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1131	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		287	1.45	4.00	mg/L			HH2	08/10/22	1418	2300028	3
Bicarbonate alkalinity (CaCO3)		287	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: August 16, 2022

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: AF41640 Project: SOOP00119
Sample ID: 588993002 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 08-AUG-22 13:25
Receive Date: 09-AUG-22
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		23.7	1.65	5.00	mg/L		5	RM3	08/13/22	1555	2302324	1

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: August 16, 2022

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: AF41635	Project: SOOP00119
Sample ID: 588993003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-AUG-22 14:25	
Receive Date: 09-AUG-22	
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		1.60	0.330	1.00	mg/L		1	RM3	08/12/22	2115	2301646	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1131	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		9.00	1.45	4.00	mg/L			HH2	08/10/22	1421	2300028	3
Bicarbonate alkalinity (CaCO3)		9.00	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 16, 2022

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: AF41635 Project: SOOP00119
Sample ID: 588993004 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 08-AUG-22 14:25
Receive Date: 09-AUG-22
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		1.27	0.330	1.00	mg/L		1	RM3	08/13/22	0651	2302324	1

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: August 16, 2022

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: AF41636	Project: SOOP00119
Sample ID: 588993005	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 08-AUG-22 15:27	
Receive Date: 09-AUG-22	
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	RM3	08/12/22	2157	2301646	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	08/10/22	1423	2300028	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

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

Certificate of Analysis

Report Date: August 16, 2022

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: AF41636 Project: SOOP00119
Sample ID: 588993006 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 08-AUG-22 15:27
Receive Date: 09-AUG-22
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	0.953	0.330	1.00	mg/L		1	RM3	08/13/22	0711	2302324	1

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

QC Summary

Report Date: August 16, 2022

Page 1 of 3

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

Contact: Ms. Jeanette Gilmetti

Workorder: 588993

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Carbon Analysis											
Batch	2301646										
QC1205161433	588993001	DUP									
Total Organic Carbon Average		24.0		24.1	mg/L	0.312 ^		(+/-5.00)	RM3	08/13/22	15:15
QC1205161428	LCS										
Total Organic Carbon Average	10.0			10.1	mg/L		101	(80%-120%)		08/12/22	13:46
QC1205161427	MB										
Total Organic Carbon Average			U	ND	mg/L					08/12/22	13:37
QC1205161434	588993001	PS									
Total Organic Carbon Average	10.0	4.80		15.4	mg/L		106	(65%-120%)		08/13/22	15:35
Batch	2302324										
QC1205162705	588993002	DUP									
Dissolved Organic Carbon Average		23.7		23.2	mg/L	2.11 ^		(+/-5.00)	RM3	08/13/22	16:15
QC1205162704	LCS										
Dissolved Organic Carbon Average	10.0			10.0	mg/L		100	(80%-120%)		08/12/22	23:53
QC1205162703	MB										
Dissolved Organic Carbon Average			U	ND	mg/L					08/12/22	23:34
QC1205162708	588993002	PS									
Dissolved Organic Carbon Average	10.0	4.74		14.5	mg/L		97.5	(65%-120%)		08/13/22	16:34
Spectrometric Analysis											
Batch	2301825										
QC1205161768	LCS										
Total Sulfide	0.400			0.394	mg/L		98.5	(85%-115%)	VH1	08/15/22	11:31

GEL LABORATORIES LLC

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

QC Summary

Workorder: **588993**

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch 2301825											
QC1205161767 MB											
Total Sulfide			U	ND	mg/L				VH1	08/15/22	11:31
QC1205161769 588968001 PS											
Total Sulfide	0.400	U	ND	0.398	mg/L		99.5	(75%-125%)		08/15/22	11:31
QC1205161770 588968001 PSD											
Total Sulfide	0.400	U	ND	0.394	mg/L	1.08	98.5	(0%-15%)		08/15/22	11:31
Titration and Ion Analysis											
Batch 2300028											
QC1205161475 587990001 DUP											
Alkalinity, Total as CaCO3			115	114	mg/L	0.524		(0%-20%)	HH2	08/10/22	13:41
QC1205158376 LCS											
Alkalinity, Total as CaCO3	100			103	mg/L		103	(90%-110%)		08/10/22	13:38
QC1205161476 587990001 MS											
Alkalinity, Total as CaCO3	100		115	214	mg/L		99.2	(80%-120%)		08/10/22	13:43

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- NI See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- 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: 588993

Page 3 of 3

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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.								
R		Sample results are rejected								
U		Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.								
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Z		Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
d		5-day BOD--The 2:1 depletion requirement was not met for this sample								
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								
h		Preparation or preservation holding time was exceeded								

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 the 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 #: 588993**

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2301646

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
588993001	AF41640
588993003	AF41635
588993005	AF41636
1205161427	Method Blank (MB)
1205161428	Laboratory Control Sample (LCS)
1205161433	588993001(AF41640) Sample Duplicate (DUP)
1205161434	588993001(AF41640) 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 1205161433 (AF41640DUP), 1205161434 (AF41640PS) and 588993001 (AF41640) 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	588993
	001
Total Organic Carbon Average	5X

Product: Carbon, Dissolved Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2302324

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
588993002	AF41640
588993004	AF41635

588993006	AF41636
1205161418	Filtration Blank (FLTB)
1205162703	Method Blank (MB)
1205162704	Laboratory Control Sample (LCS)
1205162705	588993002(AF41640) Sample Duplicate (DUP)
1205162708	588993002(AF41640) 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 1205162705 (AF41640DUP), 1205162708 (AF41640PS) and 588993002 (AF41640) 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	588993
	002
Dissolved Organic Carbon Average	5X

Product: Sulfide, Total

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

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

Analytical Batch: 2301825

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
588993001	AF41640
588993003	AF41635
588993005	AF41636
1205161767	Method Blank (MB)
1205161768	Laboratory Control Sample (LCS)
1205161769	588968001(NonSDG) Post Spike (PS)
1205161770	588968001(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: Alkalinity

Analytical Method: SM 2320B

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

Analytical Batch: 2300028

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
588993001	AF41640
588993003	AF41635
588993005	AF41636
1205158376	Laboratory Control Sample (LCS)
1205161475	587990001(NonSDG) Sample Duplicate (DUP)
1205161476	587990001(NonSDG) 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.

588993



Chain of Custody

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

LCWILLIA @santecooper.com

125915 / JMO2.09.001.1 / 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 • Method # • Reporting limit • Misc. sample info • Any other notes	Analysis Group		
											ALKALINITY TOTAL BICARB	SULFIDE	TOC/DOC
AF41640	WLF-A2-6	8/8/22	1325	DEW BB	4	P/G	G	GW	B/I I	ALKALINITY - TOTAL BICARB + CARB	1	1	2
35	WLF-A1-2		1425										
36	WLF-A1-3		1527							SULFIDE - SHORT HOLD			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	35594	8/9/22	0935	<i>[Signature]</i>	35594	8/9/22	0935
<i>[Signature]</i>	68L	8-9-22	1550	<i>[Signature]</i>	GEL	8/9/22	15:50

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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <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
--	--	---	--	---	--	--

List of current GEL Certifications as of 16 August 2022

State	Certification
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	SC000122023-2
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	2019-165
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	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



August 19, 2022

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

Re: ABS Lab Analytical
Work Order: 589568

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 12, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

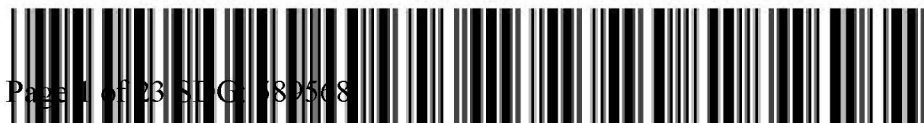
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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: 589568 GEL Work Order: 589568

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 _____

Julie Robinson

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 19, 2022

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: AF41633	Project: SOOP00119
Sample ID: 589568001	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-AUG-22 10:28	
Receive Date: 12-AUG-22	
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		4.20	0.330	1.00	mg/L		1	RM3	08/17/22	0130	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		4.20	1.45	4.00	mg/L			HH2	08/17/22	1349	2304322	3
Bicarbonate alkalinity (CaCO3)		4.20	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: August 19, 2022

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: AF41637	Project: SOOP00119
Sample ID: 589568003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-AUG-22 13:59	
Receive Date: 12-AUG-22	
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		11.7	0.330	1.00	mg/L		1	RM3	08/17/22	0229	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		122	1.45	4.00	mg/L			HH2	08/17/22	1351	2304322	3
Bicarbonate alkalinity (CaCO3)		122	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: August 19, 2022

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: AF41637 Project: SOOP00119
Sample ID: 589568004 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 09-AUG-22 13:59
Receive Date: 12-AUG-22
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		12.1	0.330	1.00	mg/L		1	RM3	08/17/22	0542	2304219	1

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: August 19, 2022

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: AF41638	Project: SOOP00119
Sample ID: 589568005	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-AUG-22 14:04	
Receive Date: 12-AUG-22	
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		11.8	0.330	1.00	mg/L		1	RM3	08/17/22	0248	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		127	1.45	4.00	mg/L			HH2	08/17/22	1353	2304322	3
Bicarbonate alkalinity (CaCO3)		127	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: August 19, 2022

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: AF41638 Project: SOOP00119
Sample ID: 589568006 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 09-AUG-22 14:04
Receive Date: 12-AUG-22
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		12.2	0.330	1.00	mg/L		1	RM3	08/17/22	0602	2304219	1

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: August 19, 2022

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: AF41639	Project: SOOP00119
Sample ID: 589568007	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-AUG-22 11:38	
Receive Date: 12-AUG-22	
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		9.64	0.330	1.00	mg/L		1	RM3	08/17/22	0308	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		216	1.45	4.00	mg/L			HH2	08/17/22	1355	2304322	3
Bicarbonate alkalinity (CaCO3)		216	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: August 19, 2022

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: AF41639 Project: SOOP00119
Sample ID: 589568008 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 09-AUG-22 11:38
Receive Date: 12-AUG-22
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		9.85	0.330	1.00	mg/L		1	RM3	08/17/22	0622	2304219	1

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: August 19, 2022

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: AF41634	Project: SOOP00119
Sample ID: 589568009	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-AUG-22 12:51	
Receive Date: 12-AUG-22	
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		11.7	0.330	1.00	mg/L		1	RM3	08/17/22	0328	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		278	1.45	4.00	mg/L			HH2	08/17/22	1400	2304322	3
Bicarbonate alkalinity (CaCO3)		278	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: August 19, 2022

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: AF41634 Project: SOOP00119
Sample ID: 589568010 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 09-AUG-22 12:51
Receive Date: 12-AUG-22
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		12.0	0.330	1.00	mg/L		1	RM3	08/17/22	0641	2304219	1

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: August 19, 2022

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: AF41641	Project: SOOP00119
Sample ID: 589568011	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 09-AUG-22 14:55	
Receive Date: 12-AUG-22	
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		18.5	0.330	1.00	mg/L		1	RM3	08/17/22	0347	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		224	1.45	4.00	mg/L			HH2	08/17/22	1401	2304322	3
Bicarbonate alkalinity (CaCO3)		224	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: August 19, 2022

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:	AF41641	Project:	SOOP00119
Sample ID:	589568012	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	09-AUG-22 14:55		
Receive Date:	12-AUG-22		
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		19.0	0.330	1.00	mg/L		1	RM3	08/17/22	0701	2304219	1

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

QC Summary

Report Date: August 19, 2022

Page 1 of 3

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

Contact: Ms. Jeanette Gilmetti

Workorder: 589568

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Carbon Analysis											
Batch 2304212											
QC1205166335	589568001	DUP									
Total Organic Carbon Average		4.20		4.17	mg/L	0.86 ^		(+/-1.00)	RM3	08/17/22	01:50
QC1205166330	LCS										
Total Organic Carbon Average	10.0			10.0	mg/L		100	(80%-120%)		08/16/22	19:01
QC1205166329	MB										
Total Organic Carbon Average			U	ND	mg/L					08/16/22	18:51
QC1205166336	589568001	PS									
Total Organic Carbon Average	10.0	4.20		13.8	mg/L		95.8	(65%-120%)		08/17/22	02:09
Batch 2304219											
QC1205166604	589568002	DUP									
Dissolved Organic Carbon Average		4.34		4.25	mg/L	2.05 ^		(+/-1.00)	RM3	08/17/22	05:02
QC1205166602	LCS										
Dissolved Organic Carbon Average	10.0			10.3	mg/L		103	(80%-120%)		08/16/22	18:41
QC1205166601	MB										
Dissolved Organic Carbon Average			U	ND	mg/L					08/16/22	18:32
QC1205166607	589568002	PS									
Dissolved Organic Carbon Average	10.0	4.34		14.7	mg/L		103	(65%-120%)		08/17/22	05:22
Spectrometric Analysis											
Batch 2301825											
QC1205161768	LCS										
Total Sulfide	0.400			0.394	mg/L		98.5	(85%-115%)	VH1	08/15/22	11:31

GEL LABORATORIES LLC

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

QC Summary

Workorder: 589568

Page 2 of 3

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2301825										
QC1205161767	MB										
Total Sulfide			U	ND	mg/L				VH1	08/15/22	11:31
QC1205161769	588968001	PS									
Total Sulfide	0.400	U	ND	0.398	mg/L		99.5	(75%-125%)		08/15/22	11:31
QC1205161770	588968001	PSD									
Total Sulfide	0.400	U	ND	0.394	mg/L	1.08	98.5	(0%-15%)		08/15/22	11:31
Titration and Ion Analysis											
Batch	2304322										
QC1205166518	589535002	DUP									
Alkalinity, Total as CaCO3			45.0	44.8	mg/L	0.445		(0%-20%)	HH2	08/17/22	13:41
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205166517	LCS										
Alkalinity, Total as CaCO3	100			108	mg/L		108	(90%-110%)		08/17/22	13:14
QC1205166519	589535002	MS									
Alkalinity, Total as CaCO3	100		45.0	147	mg/L		102	(80%-120%)		08/17/22	13:44

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

GEL LABORATORIES LLC

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

QC Summary

Workorder: 589568

Page 3 of 3

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ										
Q										
R										
R										
U										
X										
Z										
^										
d										
e										
h										

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 the 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 #: 589568**

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2304212

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
589568001	AF41633
589568003	AF41637
589568005	AF41638
589568007	AF41639
589568009	AF41634
589568011	AF41641
1205166329	Method Blank (MB)
1205166330	Laboratory Control Sample (LCS)
1205166335	589568001(AF41633) Sample Duplicate (DUP)
1205166336	589568001(AF41633) 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: 2304219

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
589568002	AF41633
589568004	AF41637
589568006	AF41638
589568008	AF41639
589568010	AF41634
589568012	AF41641
1205166601	Method Blank (MB)
1205166602	Laboratory Control Sample (LCS)
1205166604	589568002(AF41633) Sample Duplicate (DUP)
1205166607	589568002(AF41633) 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: Sulfide, Total

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

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

Analytical Batch: 2301825

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
589568001	AF41633
589568003	AF41637
589568005	AF41638
589568007	AF41639
589568009	AF41634
589568011	AF41641
1205161767	Method Blank (MB)
1205161768	Laboratory Control Sample (LCS)
1205161769	588968001(NonSDG) Post Spike (PS)
1205161770	588968001(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: Alkalinity

Analytical Method: SM 2320B

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

Analytical Batch: 2304322

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
589568001	AF41633
589568003	AF41637
589568005	AF41638
589568007	AF41639
589568009	AF41634
589568011	AF41641
1205166517	Laboratory Control Sample (LCS)
1205166518	589535002(NonSDG) Sample Duplicate (DUP)
1205166519	589535002(NonSDG) Matrix Spike (MS)

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

Data Summary:

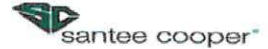
There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

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.

589568

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 19 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.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@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	TOC/DOC	ALKALINITY TOTAL, BICARB, CARB	SULFIDE
AF41633	WBW-A1-1	8/9/22	1028	DEW BB	4	G P	G	GW	4,1, 6	6-ZINC ACETATE	2	1	1
37	WLF-A1-4		1359							ALKALINITY = TOTAL, BICARB + CARB.			
38	WLF-A1-4 DUP		1404										
39	WLF-A1-5		1138							* SHORT HOLD ON SULFIDE			
34	WLF-A1-1		1251										
41	WAP-7		1455										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>[Signature]</i>	37180	8-12-22	0905	<i>[Signature]</i>	661	8/12/22	0905
<i>[Signature]</i>	661	8-12-22	1627	<i>[Signature]</i>	661	8/12/22	1627

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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <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
--	--	---	--	---	--	---

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)

List of current GEL Certifications as of 19 August 2022

State	Certification
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	SC000122023-2
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	2019-165
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	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



Laboratory Report

Client	Santee Cooper Linda Williams 1 Riverwood Dr. Moncks Corner, SC 29461	Project:	Ground Water
		Work Order:	22H0795
		Received:	08/12/2022 09:20

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on August 12, 2022. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Elisabeth Noblet, your Project Manager, at enoblet@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Elisabeth Noblet
Project Manager

This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.



*South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880*

Certificate of Analysis

Client Santee Cooper
Linda Williams
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Received: 08/12/2022 09:20

Sample Number	Sample Description	Matrix	Sampled	Type
22H0795-01	AF39101 Pen Creek 1	Surface Water	07/12/22 09:45	Grab
22H0795-02	AF39102 Low Turk	Surface Water	07/12/22 10:24	Grab
22H0795-03	AF39103 Mid Turk	Surface Water	07/12/22 10:31	Grab
22H0795-04	AF39104 Up Turk	Surface Water	07/12/22 10:45	Grab
22H0795-05	AF39105 Pen Creek 2	Surface Water	07/12/22 11:30	Grab
22H0795-06	AF40205 STI-2	Ground Water	08/03/22 11:25	Grab
22H0795-07	AF40207 STI-4A	Ground Water	08/03/22 12:29	Grab
22H0795-08	AF40208 STI-5	Ground Water	08/03/22 13:28	Grab
22H0795-09	AF40206 STI-3	Ground Water	08/03/22 14:22	Grab
22H0795-10	AF40204 STI-1	Ground Water	08/03/22 15:24	Grab
22H0795-11	AF41630 WLF-A2-1	Ground Water	08/08/22 10:54	Grab
22H0795-12	AF41631 WLF-A2-1 DUP	Ground Water	08/08/22 10:59	Grab
22H0795-13	AF41632 WLF-A2-2	Ground Water	08/08/22 12:15	Grab
22H0795-14	AF41640 WLF-A2-6	Ground Water	08/08/22 13:25	Grab
22H0795-15	AF41635 WLF-A1-2	Ground Water	08/08/22 14:25	Grab
22H0795-16	AF41636 WLF-A1-3	Ground Water	08/08/22 15:27	Grab
22H0795-17	AF41633 WBW-A1-1	Ground Water	08/09/22 10:28	Grab
22H0795-18	AF41637 WLF-A1-4	Ground Water	08/09/22 13:59	Grab
22H0795-19	AF41638 WLF-A1-4 DUP	Ground Water	08/09/22 14:04	Grab
22H0795-20	AF41639 WLF-A1-5	Ground Water	08/09/22 11:38	Grab
22H0795-21	AF41634 WLF-A1-1	Ground Water	08/09/22 12:51	Grab
22H0795-22	AF41641 WAP-7	Ground Water	08/09/22 14:55	Grab



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Case Narrative

Partial Report

Please note this report does not include the following results - **AF39101**: As, Diss As **AF40204-08**: Cr, Se **AF41630-32**: Be, Co, Cr, Se



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Data

Sample Number 22H0795-01
Sample Description AF39101 Pen Creek 1 collected on 07/12/22 09:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Lithium	38	10	ug/L	1.00	08/16/22 18:09	EPA 6010D	S1	CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:09	EPA 6010D		CAL	B2H1705	RC-G
Rebatch Sample Number: 22H0795-01RE1										
Lithium	38	10	ug/L	1.00	09/01/22 12:12	EPA 6010D		KTH	B2H2214	RC-G

Sample Number 22H0795-02
Sample Description AF39102 Low Turk collected on 07/12/22 10:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:49	EPA 6020B		JIP	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:15	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-03
Sample Description AF39103 Mid Turk collected on 07/12/22 10:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:54	EPA 6020B		JIP	B2H1696	RC-G
Lithium	12	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:20	EPA 6020B		JIP	B2H1696	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-04
Sample Description AF39104 Up Turk collected on 07/12/22 10:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:59	EPA 6020B		JIP	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:25	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-05
Sample Description AF39105 Pen Creek 2 collected on 07/12/22 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:04	EPA 6020B		JIP	B2H1696	RC-G
Lithium	43	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:30	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-06
Sample Description AF40205 S'TI-2 collected on 08/03/22 11:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:45	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:04	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.21	0.050	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:16	EPA 6020B		JIP	B2H2227	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-07
Sample Description AF40207 STI-4A collected on 08/03/22 12:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:39	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	0.112	0.005	mg/L	1.00	08/26/22 23:17	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.27	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Iron	31	2.5	mg/L	50.0	08/16/22 21:07	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:19	EPA 6020B		JIP	B2H2227	RC-G

Sample Number 22H0795-08
Sample Description AF40208 STI-5 collected on 08/03/22 13:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:48	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:23	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.034	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Iron	24	0.25	mg/L	5.00	08/16/22 21:18	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6020B		JIP	B2H2227	RC-G

Sample Number 22H0795-09
Sample Description AF40206 STI-3 collected on 08/03/22 14:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:51	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:28	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.020	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Iron	2.6	0.25	mg/L	5.00	08/16/22 21:58	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 13:52	EPA 6020B		JIP	B2H2227	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-10
Sample Description AF40204 STI-1 collected on 08/03/22 15:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:54	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:33	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.025	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.31	0.050	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:25	EPA 6020B		JIP	B2H2227	RC-G

Sample Number 22H0795-11
Sample Description AF41630 WLF-A2-1 collected on 08/08/22 10:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:57	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.109	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.062	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Boron	1400	15	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Calcium	89	2.5	mg/L	50.0	08/16/22 22:36	EPA 6010D		CAL	B2H1705	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.7	0.050	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lithium	37	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:37	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-12
Sample Description AF41631 WLF-A2-1 DUP collected on 08/08/22 10:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 10:05	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.107	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.058	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Boron	1300	15	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Calcium	81	2.5	mg/L	50.0	08/16/22 22:39	EPA 6010D		CAL	B2H1705	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.6	0.050	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lithium	34	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G

Sample Number 22H0795-13
Sample Description AF41632 WLF-A2-2 collected on 08/08/22 12:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:31	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.289	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Boron	2100	15	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Calcium	150	2.5	mg/L	50.0	08/16/22 23:20	EPA 6010D		CAL	B2H1705	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Iron	4.2	0.050	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lithium	140	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-14
Sample Description AF41640 WLF-A2-6 collected on 08/08/22 13:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	380	15	ug/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Calcium	130	2.5	mg/L	50.0	08/16/22 23:24	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.47	0.050	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	7.6	0.25	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.059	0.010	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	5.2	0.10	mg/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Sodium	5.5	0.50	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G

Dissolved Metals

Iron, Dissolved	0.47	0.050	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.060	0.020	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G

Sample Number 22H0795-15
Sample Description AF41635 WLF-A1-2 collected on 08/08/22 14:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	120	15	ug/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Calcium	33	2.5	mg/L	50.0	08/17/22 00:04	EPA 6010D		CAL	B2H1705	RC-G
Iron	3.4	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	0.87	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.034	0.010	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	0.47	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.2	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G

Dissolved Metals

Iron, Dissolved	3.6	0.050	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.037	0.020	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-16
Sample Description AF41636 WLF-A1-3 collected on 08/08/22 15:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	170	15	ug/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Calcium	18	0.25	mg/L	5.00	08/17/22 00:15	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.48	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Magnesium	0.49	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.023	0.010	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Potassium	0.54	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.3	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G

Dissolved Metals

Iron, Dissolved	0.46	0.050	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G
Manganese, Dissolved	0.022	0.020	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G

Sample Number 22H0795-17
Sample Description AF41633 WBW-A1-1 collected on 08/09/22 10:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	56	15	ug/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Calcium	92	2.5	mg/L	50.0	08/17/22 17:21	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.9	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	3.4	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.048	0.010	mg/L	1.00	08/17/22 17:28	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	5.0	0.10	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Sodium	14	0.50	mg/L	5.00	08/17/22 17:25	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	3.8	0.050	mg/L	1.00	08/17/22 19:37	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.049	0.020	mg/L	1.00	08/17/22 19:37	EPA 6010D	Z	KTH	B2H1706	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-18
Sample Description AF41637 WLF-A1-4 collected on 08/09/22 13:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	270	15	ug/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Calcium	93	2.5	mg/L	50.0	08/17/22 17:58	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.089	0.010	mg/L	1.00	08/17/22 18:05	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.6	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	2.6	0.050	mg/L	1.00	08/17/22 19:48	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.089	0.020	mg/L	1.00	08/17/22 19:48	EPA 6010D	Z	KTH	B2H1706	RC-G

Sample Number 22H0795-19
Sample Description AF41638 WLF-A1-4 DUP collected on 08/09/22 14:04

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	260	15	ug/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Calcium	89	2.5	mg/L	50.0	08/17/22 18:15	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.9	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.096	0.010	mg/L	1.00	08/17/22 18:22	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.8	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	2.8	0.050	mg/L	1.00	08/17/22 20:11	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.11	0.020	mg/L	1.00	08/17/22 20:11	EPA 6010D	Z	KTH	B2H1706	RC-G



Rogers & Callcott

ENVIRONMENTAL

Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-20
Sample Description AF41639 WLF-A1-5 collected on 08/09/22 11:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	1800	15	ug/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Calcium	310	25	mg/L	500	08/17/22 18:39	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.8	0.050	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	30	2.5	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G
Manganese	1.1	0.010	mg/L	1.00	08/17/22 18:50	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	8.7	0.10	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Sodium	23	5.0	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G

Dissolved Metals

Iron, Dissolved	3.0	0.050	mg/L	1.00	08/17/22 20:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	1.1	0.020	mg/L	1.00	08/17/22 20:22	EPA 6010D	Z	KTH	B2H1706	RC-G

Sample Number 22H0795-21
Sample Description AF41634 WLF-A1-1 collected on 08/09/22 12:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	910	15	ug/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Calcium	390	25	mg/L	500	08/17/22 14:28	EPA 6010D		KTH	B2H1714	RC-G
Iron	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.93	0.010	mg/L	1.00	08/17/22 14:38	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	5.7	0.10	mg/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Sodium	9.5	0.50	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G

Dissolved Metals

Iron, Dissolved	9.5	2.5	mg/L	50.0	08/17/22 18:56	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.96	0.020	mg/L	1.00	08/17/22 19:00	EPA 6010D	Z	KTH	B2H1714	RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Number 22H0795-22
Sample Description AF41641 WAP-7 collected on 08/09/22 14:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	4000	15	ug/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Calcium	690	25	mg/L	500	08/17/22 14:45	EPA 6010D		KTH	B2H1714	RC-G
Iron	0.19	0.050	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	16	0.25	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.51	0.010	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Sodium	15	0.50	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Dissolved Metals										
Iron, Dissolved	0.29	0.050	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.51	0.020	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1696 - EPA 3005A Mod

Blank (B2H1696-BLK1)

Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Thallium	ND	0.002	mg/L								RC-G

LCS (B2H1696-BS1)

Antimony	0.323	0.005	mg/L	0.200		161	80-120			L	RC-G
Arsenic	0.211	0.005	mg/L	0.200		106	80-120				RC-G
Thallium	0.199	0.002	mg/L	0.200		100	80-120				RC-G

Matrix Spike (B2H1696-MS1) Source: 22H0795-06

Antimony	0.367	0.005	mg/L	0.200	ND	183	75-125			Za	RC-G
Arsenic	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
Thallium	0.197	0.002	mg/L	0.200	ND	98	75-125				RC-G

Matrix Spike (B2H1696-MS2) Source: 22H0795-07

Antimony	0.399	0.005	mg/L	0.200	ND	200	75-125			Za	RC-G
Arsenic	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
Thallium	0.184	0.002	mg/L	0.200	ND	92	75-125				RC-G

Matrix Spike Dup (B2H1696-MSD1) Source: 22H0795-06

Antimony	0.361	0.005	mg/L	0.200	ND	180	75-125	2	20	Za	RC-G
Arsenic	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
Thallium	0.195	0.002	mg/L	0.200	ND	97	75-125	1	20		RC-G

Matrix Spike Dup (B2H1696-MSD2) Source: 22H0795-07

Antimony	0.374	0.005	mg/L	0.200	ND	187	75-125	7	20	Za	RC-G
Arsenic	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
Thallium	0.174	0.002	mg/L	0.200	ND	87	75-125	5	20		RC-G

Batch B2H1705 - EPA 3005A

Blank (B2H1705-BLK1)

Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

Blank (B2H1705-BLK1)

Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Manganese	ND	0.010	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H1705-BS1)

Barium	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Boron	500	15	ug/L	500		99	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Copper	0.51	0.005	mg/L	0.500		102	80-120				RC-G
Iron	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Lead	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	505	10	ug/L	500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G
Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		98	80-120				RC-G
Zinc	0.50	0.010	mg/L	0.500		101	80-120				RC-G

Matrix Spike (B2H1705-MS1)

Source: 22H0795-01

Barium	0.57	0.010	mg/L	0.500	0.074	99	75-125				RC-G
Boron	1300	15	ug/L	500	780	101	75-125				RC-G
Cadmium	0.52	0.004	mg/L	0.500	ND	104	75-125				RC-G
Copper	0.58	0.005	mg/L	0.500	0.020	111	75-125				RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125				RC-G
Lithium	756	10	ug/L	500	38	144	75-125			S1	RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

Matrix Spike (B2H1705-MS1) Source: 22H0795-01

Manganese	0.86	0.010	mg/L	0.500	0.35	102	75-125				RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125				RC-G
Nickel	0.48	0.010	mg/L	0.500	0.014	93	75-125				RC-G
Zinc	0.47	0.010	mg/L	0.500	0.011	92	75-125				RC-G

Matrix Spike (B2H1705-MS2) Source: 22H0795-02

Barium	0.57	0.010	mg/L	0.500	0.065	101	75-125				RC-G
Boron	3000	15	ug/L	500	2500	112	75-125				RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125				RC-G
Copper	0.53	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125				RC-G
Lithium	590	10	ug/L	500	11	116	75-125				RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	103	75-125				RC-G
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	18	0.10	mg/L	5.00	11	124	75-125				RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G

Matrix Spike Dup (B2H1705-MSD1) Source: 22H0795-01

Barium	0.58	0.010	mg/L	0.500	0.074	100	75-125	1	20		RC-G
Boron	1300	15	ug/L	500	780	103	75-125	1	20		RC-G
Cadmium	0.53	0.004	mg/L	0.500	ND	105	75-125	1	20		RC-G
Copper	0.59	0.005	mg/L	0.500	0.020	113	75-125	2	20		RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Lead	0.47	0.010	mg/L	0.500	ND	94	75-125	1	20		RC-G
Lithium	765	10	ug/L	500	38	145	75-125	1	20	S1	RC-G
Manganese	0.85	0.010	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G
Molybdenum	500	10	ug/L	500	ND	101	75-125	3	20		RC-G
Nickel	0.49	0.010	mg/L	0.500	0.014	95	75-125	1	20		RC-G
Zinc	0.48	0.010	mg/L	0.500	0.011	95	75-125	2	20		RC-G

Matrix Spike Dup (B2H1705-MSD2) Source: 22H0795-02

Barium	0.58	0.010	mg/L	0.500	0.065	102	75-125	0.6	20		RC-G
Boron	3100	15	ug/L	500	2500	121	75-125	2	20		RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125	0.3	20		RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

Matrix Spike Dup (B2H1705-MSD2) Source: 22H0795-02

Copper	0.53	0.005	mg/L	0.500	ND	106	75-125	0.4	20		RC-G
Iron	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Lithium	590	10	ug/L	500	11	116	75-125	0.03	20		RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	1	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.09	20		RC-G
Potassium	18	0.10	mg/L	5.00	11	131	75-125	2	20	S1	RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125	0.2	20		RC-G

Batch B2H1706 - EPA 3005A

Blank (B2H1706-BLK1)

Boron	ND	15	ug/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Manganese	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G

LCS (B2H1706-BS1)

Boron	500	15	ug/L	500		99	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Iron	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Manganese	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		111	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		103	80-120				RC-G

Matrix Spike (B2H1706-MS2) Source: 22H0490-02RE1

Potassium	9.0	0.10	mg/L	5.00	1.9	140	75-125			S1	RC-G
-----------	-----	------	------	------	-----	-----	--------	--	--	----	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1706 - EPA 3005A

Matrix Spike Dup (B2H1706-MSD2) Source: 22H0490-02RE1

Potassium	8.7	0.10	mg/L	5.00	1.9	135	75-125	3	20	S1	RC-G
-----------	-----	------	------	------	-----	-----	--------	---	----	----	------

Batch B2H1714 - EPA 3005A

Blank (B2H1714-BLK1)

Boron	ND	15	ug/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Manganese	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G

LCS (B2H1714-BS1)

Boron	500	15	ug/L	500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Iron	0.52	0.050	mg/L	0.500		103	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.52	0.10	mg/L	0.500		104	80-120				RC-G

Batch B2H1781 - EPA 7470A

Blank (B2H1781-BLK1)

Mercury	ND	0.20	ug/L								RC-G
---------	----	------	------	--	--	--	--	--	--	--	------

LCS (B2H1781-BS1)

Mercury	5.0	0.20	ug/L	5.00		101	80-120				RC-G
---------	-----	------	------	------	--	-----	--------	--	--	--	------

Matrix Spike (B2H1781-MS1) Source: 22H0795-13

Mercury	4.8	0.20	ug/L	5.00	ND	95	75-125				RC-G
---------	-----	------	------	------	----	----	--------	--	--	--	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1781 - EPA 7470A

Matrix Spike Dup (B2H1781-MSD1) Source: 22H0795-13

Mercury	4.7	0.20	ug/L	5.00	ND	94	75-125	1	20		RC-G
---------	-----	------	------	------	----	----	--------	---	----	--	------

Batch B2H2214 - EPA 3005A

Blank (B2H2214-BLK1)

Lithium	ND	10	ug/L								RC-G
---------	----	----	------	--	--	--	--	--	--	--	------

LCS (B2H2214-BS1)

Lithium	497	10	ug/L	500		99	80-120				RC-G
---------	-----	----	------	-----	--	----	--------	--	--	--	------

Matrix Spike (B2H2214-MS1) Source: 22H0795-01RE1

Lithium	712	10	ug/L	500	38	135	75-125			S1	RC-G
---------	-----	----	------	-----	----	-----	--------	--	--	----	------

Matrix Spike (B2H2214-MS3) Source: 22H1276-05RE1

Lithium	654	10	ug/L	500	28	125	75-125			S1	RC-G
---------	-----	----	------	-----	----	-----	--------	--	--	----	------

Matrix Spike Dup (B2H2214-MSD3) Source: 22H1276-05RE1

Lithium	643	10	ug/L	500	28	123	75-125	2	20		RC-G
---------	-----	----	------	-----	----	-----	--------	---	----	--	------

Batch B2H2227 - EPA 3005A Mod

Blank (B2H2227-BLK1)

Silver	ND	0.010	mg/L								RC-G
--------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H2227-BS1)

Silver	0.062	0.010	mg/L	0.0600		103	80-120				RC-G
--------	-------	-------	------	--------	--	-----	--------	--	--	--	------

Matrix Spike (B2H2227-MS1) Source: 22H0795-09

Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125				RC-G
--------	-------	-------	------	--------	----	----	--------	--	--	--	------

Matrix Spike Dup (B2H2227-MSD1) Source: 22H0795-09

Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125	0.1	20		RC-G
--------	-------	-------	------	--------	----	----	--------	-----	----	--	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

**Dissolved Metals
Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1696 - EPA 3005A Mod

Blank (B2H1696-BLK1)

Arsenic, Dissolved	ND	0.005	mg/L								RC-G
--------------------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H1696-BS1)

Arsenic, Dissolved	0.211	0.005	mg/L	0.200		106	80-120				RC-G
--------------------	-------	-------	------	-------	--	-----	--------	--	--	--	------

Matrix Spike (B2H1696-MS1) Source: 22H0795-06

Arsenic, Dissolved	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
--------------------	-------	-------	------	-------	----	-----	--------	--	--	--	------

Matrix Spike (B2H1696-MS2) Source: 22H0795-07

Arsenic, Dissolved	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
--------------------	-------	-------	------	-------	-------	-----	--------	--	--	--	------

Matrix Spike Dup (B2H1696-MSD1) Source: 22H0795-06

Arsenic, Dissolved	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
--------------------	-------	-------	------	-------	----	-----	--------	-----	----	--	------

Matrix Spike Dup (B2H1696-MSD2) Source: 22H0795-07

Arsenic, Dissolved	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
--------------------	-------	-------	------	-------	-------	-----	--------	---	----	--	------

Batch B2H1705 - EPA 3005A

Blank (B2H1705-BLK1)

Iron, Dissolved	ND	0.050	mg/L								RC-G
-----------------	----	-------	------	--	--	--	--	--	--	--	------

Manganese, Dissolved	ND	0.020	mg/L								RC-G
----------------------	----	-------	------	--	--	--	--	--	--	--	------

LCS (B2H1705-BS1)

Iron, Dissolved	0.50	0.050	mg/L	0.500		100	80-120				RC-G
-----------------	------	-------	------	-------	--	-----	--------	--	--	--	------

Manganese, Dissolved	0.51	0.020	mg/L	0.500		102	80-120				RC-G
----------------------	------	-------	------	-------	--	-----	--------	--	--	--	------

Matrix Spike (B2H1705-MS1) Source: 22H0795-01

Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
-----------------	-----	-------	------	-------	-----	----	--------	--	--	--	------

Manganese, Dissolved	0.86	0.020	mg/L	0.500	0.35	102	75-125				RC-G
----------------------	------	-------	------	-------	------	-----	--------	--	--	--	------

Matrix Spike (B2H1705-MS2) Source: 22H0795-02

Iron, Dissolved	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
-----------------	-----	-------	------	-------	-----	-----	--------	--	--	--	------

Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	103	75-125				RC-G
----------------------	------	-------	------	-------	------	-----	--------	--	--	--	------



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

**Dissolved Metals
Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
-----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------	-----

Batch B2H1705 - EPA 3005A

Matrix Spike Dup (B2H1705-MSD1) Source: 22H0795-01

Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Manganese, Dissolved	0.85	0.020	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G

Matrix Spike Dup (B2H1705-MSD2) Source: 22H0795-02

Iron, Dissolved	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 3005A ICP Digestion				
EPA 3005A	B2H1705	22H0795-01	08/15/2022 13:44	EDM
EPA 3005A	B2H2214	22H0795-01RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H1705	22H0795-02	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-03	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-04	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-05	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-06	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-07	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-08	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-09	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-10	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-11	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-12	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-13	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-14	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-15	08/15/2022 13:44	EDM
EPA 3005A	B2H1705	22H0795-16	08/15/2022 13:44	EDM
EPA 3005A	B2H1706	22H0795-17	08/15/2022 13:49	EDM
EPA 3005A	B2H1706	22H0795-18	08/15/2022 13:49	EDM
EPA 3005A	B2H1706	22H0795-19	08/15/2022 13:49	EDM
EPA 3005A	B2H1706	22H0795-20	08/15/2022 13:49	EDM
EPA 3005A	B2H1714	22H0795-21	08/15/2022 15:02	EDM
EPA 3005A	B2H1714	22H0795-22	08/15/2022 15:02	EDM



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

EPA 3005A ICPMS Digestion

EPA 3005A Mod	B2H1696	22H0795-02	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-03	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-04	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-05	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-06	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-06	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-07	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-07	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-08	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-08	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-09	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-09	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-10	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-10	08/25/2022 16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-11	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-12	08/15/2022 11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-13	08/15/2022 11:21	EDM

EPA 7470A Mercury Digestion

EPA 7470A	B2H1781	22H0795-06	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-07	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-08	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-09	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-10	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-11	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-12	08/16/2022 17:30	EDM
EPA 7470A	B2H1781	22H0795-13	08/16/2022 17:30	EDM



Santee Cooper
1 Riverwood Dr.
Moneks Corner, SC 29461

Project: Ground Water
Work Order: 22H0795
Reported: 09/14/22 16:42

Data Qualifiers and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported
- RPD Relative Percent Difference
- L The analyte was not within control limits in the LCS.
- S1 The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
- Z The Dissolved and Total results are not significantly different and given the nature of the analyses, should be considered equal.
- Za The matrix spike and/or matrix spike duplicate was not within control limits - failed high. There are no detections in the sample.

Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105
RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

2240795



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	TOTAL AS, MO, LI	DISSOLVED AS
01 AF39101	PEN CREEK 1	7/12/22	0945	EG	2	P	G	SW	2	AS ^{200.3} 1000 RL < 5 PPB	1	1
02	LOW TURK		1024							MO } 6010 RL < 10 PPB		
03	MID TURK		1031							LI }		
04	UP TURK		1045									
05	PEN CREEK 2		1130									

Relinquished by: <u>Sjbrown</u>	Employee# <u>35594</u>	Date <u>8/11/22</u>	Time <u>1500</u>	Received by: <u>Fedex</u>	Employee #	Date	Time
Relinquished by: <u>Fedex</u>	Employee#	Date <u>8/12/22</u>	Time <u>0920</u>	Received by: <u>[Signature]</u>	Employee #	Date <u>8/12/22</u>	Time <u>0920</u>

Sample Receiving (Internal Use Only)
TEMP (°C): 23.9 Initial: VAD
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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> Aa <input type="checkbox"/> ESS	Oil <input type="checkbox"/> Trans. Oil Qual <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dissolved Solids <input type="checkbox"/> IPT <input type="checkbox"/> Dissolved Gases <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"/> Hgt <input type="checkbox"/> TX <input type="checkbox"/> GOFER
--	--	---	--	---	--	--

Tracking: 8153 6791 4817

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

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	TOTAL METALS -SEE BELOW		
04 AF40205	STI-2	8/3/22	1125	DW BM	1	P	G	GW	2	6020 Ag	6010 Bq	7470 Hg	X
07 07	STI-4A		1229							As Cr	Cd Fe		
08 08	STI-5		1328							Se	Ni Pb		
09 06	STI-3		1422										
10 04	STI-1		1524							* PLEASE USE SHEET WHERE APPLICABLE.			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>S. Brown</i>	35574	8/11/22	1500	Fedex			
Fedex		8/12/22	0920	<i>[Signature]</i>		8/12/22	0920

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

<p>METALS (all)</p> <p><input checked="" type="checkbox"/> Ag <input 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 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 type="checkbox"/> Zn <input 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</p>	<p>Nutrients</p> <p><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</p>	<p>MISC.</p> <p><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</p>	<p>Gypsum</p> <p><input type="checkbox"/> Wallboard 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"/> Sulfides <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur</p>	<p>Coal</p> <p><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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter</p>	<p>Flyash</p> <p><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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS</p>	<p>Oil</p> <p>Trans. Oil Qual. Additive Color Acidity Dielectric Strength IP Dissolved Gases Used Oil Fluoride Metals in oil As, Cd, Cr, Cu, Pb Hg TX GOLP</p>
---	---	--	---	--	---	--

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)



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

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
AF41630	WLF-A2-1	8/8/22	1054	DEW BB	1	P	G	GW	2	6010 6020	X
31	WLF-A2-1 DUP		1059							Ba Ni AS B K Co	
32	WLF-A2-2		1215							Cd Na Cr Ca Zn Sb	
										Cu Se Fe Ti	
										Pb Li	
										Mg Mo Hg-T47I	
										* PLEASE SEE SHEET FOR RLS.	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Sjbrown	35594	8/11/22	1500	Felix			
Felix		8/12/22	0920	[Signature]		8/12/22	0920

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 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 checked="" type="checkbox"/> B <input checked="" type="checkbox"/> Li <input type="checkbox"/> Sr <input checked="" type="checkbox"/> Ba <input type="checkbox"/> Mg <input type="checkbox"/> Ti <input checked="" type="checkbox"/> Bc <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 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	Nutrients <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	MISC. <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	Gypsum <input type="checkbox"/> Wallboard 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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> % Moisture <input type="checkbox"/> Gulp <input type="checkbox"/> Acids <input type="checkbox"/> Dissolved Solids <input type="checkbox"/> BTU <input type="checkbox"/> Filtered Flashes Used Oil: <input type="checkbox"/> Flashpoint <input type="checkbox"/> Moisture <input type="checkbox"/> (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> VV <input type="checkbox"/> GULFER
---	--	---	--	---	--	--

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)



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 / 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	B, Ca, Fe, K, Na Mg, Mn DISSOLVED Fe Mn
14 AF 41640	WLF-A2-6	8/8/22	1325	DEW BB	2	P	G	GW	2	B, Ca, Fe, K, Mg, Na, 6010	1
15 35	WLF-A1-2		1425							Mn-6020	
16 36	WLF-A1-3		1527								
17 AF 41633	WBW-A1-1	8/9/22	1028							* PLEASE MEET LIMITS ON SHEET.	
18 37	WLF-A1-4		1359								
19 38	WLF-A1-4 DUP		1404								
20 39	WLF-A1-5		1138								
21 34	WLF-A1-1		1251								
22 41	WAP-7		1455								

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sjbrown</i>	35594	8/16/22	1500	<i>Fedex</i>			
<i>Fedex</i>		8/12/22	0920	<i>Thy...</i>		8/12/22	0920

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

METALS (all) <input type="checkbox"/> Ag <input type="checkbox"/> Cu <input type="checkbox"/> Sb <input type="checkbox"/> Al <input checked="" type="checkbox"/> Fe <input type="checkbox"/> Se <input type="checkbox"/> As <input checked="" type="checkbox"/> K <input type="checkbox"/> Sn <input checked="" type="checkbox"/> B <input type="checkbox"/> Li <input type="checkbox"/> Sr <input type="checkbox"/> Ba <input checked="" type="checkbox"/> Mg <input type="checkbox"/> Ti <input type="checkbox"/> Be <input checked="" type="checkbox"/> Mn <input type="checkbox"/> Tl <input checked="" type="checkbox"/> Ca <input type="checkbox"/> Mo <input type="checkbox"/> V <input type="checkbox"/> Cd <input checked="" 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	Nutrients TOC DOC TP/TP04 NH3-N P Cl NO2 Br NO3 SO4	MISC. <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	Gypsum <input type="checkbox"/> Wallboard Gypsum(all below) <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Paris (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	Coal <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 Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <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 NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Qual Additives Color Acidity Sulfonate Spectra FT Dissolved Gases Used Oil Flashpoint Metals in oil (As, Cd, Cr, Ni, Pb, Hg) TX GREYER
---	--	--	--	---	--	---

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	---



Sample Receipt Verification

Client: Santee Cooper Date Received: 8/12/22 Work Order: 22H0795

Carrier Name: Client Other: _____ Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC included with samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Sample ID on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date / time on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Number of bottles on COC agrees with number of bottles received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample volume sufficient for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOA vials free of headspace (<6mm bubble)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Samples cooled? Temp at receipt recorded on COC Temp measured with IR thermometer - SN: 97050067	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ice <input checked="" type="checkbox"/> Cold Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/>
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If in-house preservation used – record Lot #			
HCL		H ₃ PO ₄	
H ₂ SO ₄		NaOH	
HNO ₃		Other	

Comments: _____

Were non-conformance issues noted at sample receipt? **No**
Non-Conformance issue other than noted above: _____

Field Data Sheets

(Note: color coding is to assist with stabilization of the field parameters prior to sample collection)

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
WLF-A1-3	28.31	8.19	10'-20'	8/8/2022	1527	22.76
Drawdown:		8.36	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)
1459	24.98	3.81	119	202	0	1.68
1504	24.83	4.12	37	185	0	0.69
1509	24.2	4.17	2	176	0	0.54
1514	24.08	4.18	-19	177	0	0.56
1519	23.77	4.23	-35	181	0	0.44
1524	24.33	4.32	-43	179	0	0.4
1527	23.69	4.24	-39	182	0	0.44

Comments/Conditions:

Samples were collected by Trey West and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

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
WLF-A1-1	41.35	19.3	23-33	8/9/2022	1251	35.78
Drawdown:		19.58	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)
1214	26.5	6.1	-103	1420	0	1.04
1219	29.6	6.07	-140	1430	0	0.9
1224	29.58	6.12	-149	1430	0.5	0.62
1229	29.36	6.12	-154	1430	0	0.45
1234	29.98	6.11	-159	1430	0	0.56
1239	30.21	6.12	-164	1430	0	0.47
1242	30.09	6.14	-167	1440	0	0.52
1245	29.98	6.14	-168	1430	0	0.43
1248	30.23	6.13	-170	1440	0	0.46
1251	30.19	6.13	-171	1440	0	0.5

Comments/Conditions:

Samples were collected by Trey West and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

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-A1-1	28.14	10.29	10-20	8/9/2022	1028	23.07

Drawdown: 10.5 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)
942	22.59	3.18	155	748	5.1	2.19
947	23.99	4.38	-81	612	3.5	1.01
952	24.1	4.53	-119	596	3.6	1.12
957	24.49	4.58	-130	593	3	0.97
1002	24.84	4.6	-136	586	3.2	0.87
1007	24.72	4.6	-139	595	0.6	0.64
1010	24.72	4.61	-142	599	1.2	0.68
1013	24.81	4.64	-145	600	1.9	0.6
1016	24.72	4.65	-146	602	0	0.5
1019	24.82	4.65	-147	601	0	0.55
1022	24.87	4.65	-148	603	0	0.47
1025	24.91	4.67	-149	605	0	0.48
1028	24.75	4.67	-150	609	0	0.46

Comments/Conditions:

Samples were collected by Trey West and Brian Brase

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
WLF-A1-1	41.35	18.58	23-33	7/12/2022	1455	35.81

Drawdown: 18.85 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)
1430	24.42	6.11	-45	1460	0	91
1435	24.16	6.07	-64	1540	0.5	0.84
1440	23.79	6.05	-73	1550	1.4	0.62
1445	23.58	6.04	-80	1550	1.4	0.52
1450	23.38	6.03	-85	1550	0.6	0.5
1455	23.29	6.03	-89	1550	0.4	0.46

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

**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-A1-1	28.14	9.07	10-20	7/12/2022	1044	23.07

Drawdown: 9.22 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)
1010	22.16	3.36	237	442	2	2.42
1015	22.85	3.37	206	421	5.8	1.11
1020	23.16	3.49	123	414	5.5	1.23
1025	23.35	4.31	-10	426	4.7	0.96
1030	23.31	4.54	-32	444	0.6	0.86
1035	23.19	4.58	-40	453	0	1.06
1038	23.22	4.6	-44	459	0	0.93
1041	23.35	4.61	-48	465	0	0.85
1044	23.43	4.62	-52	474	0	0.82

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

**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
WLF-A1-5	37.64	16.03	23'-33'	3/3/2022	1148	35.94

Drawdown: 17.11 depth to GW (ft)

Time	Temp round 1 (celcius)	5pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1108	22.6	6.92	74	1670	23	0.96
1113	23.77	7.03	30	1670	16.7	0.66
1118	24.03	7.05	10	1680	18.5	0.56
1123	24.1	7.06	-14	1690	17.6	0.49
1128	24.25	7.06	-45	1700	11.6	0.46
1133	24.88	7.06	-58	1700	17.2	0.48
1136	24.89	7.04	-63	1700	11.4	0.46
1139	24.93	7.04	-70	1700	7.1	0.45
1142	24.89	7.02	-75	1700	2.7	0.42
1145	25	7.03	-81	1700	0	0.41
1148	25.11	7.02	-85	1700	0	0.41

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

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
WLF-A1-3	28.31	6.66	10'-20'	3/2/2022	1231	22.79

Drawdown: 6.73 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)
1200	19.6	4.46	63	198	6.3	8.25
1205	20.33	4.33	46	197	0	0.62
1210	20.31	4.34	39	198	14.1	0.52
1215	20.37	4.28	30	198	11.9	0.43
1220	20.66	4.3	17	199	7.3	0.37
1225	20.31	4.33	10	197	22.5	0.39
1228	20.54	4.38	8	198	6.7	0.36
1231	20.52	4.4	4	199	6.3	0.36

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

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
WLF-A1-2	29.21	6.7	10'-20'	3/2/2022	1354	24.64

Drawdown: 7.04 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)
1320	25.71	5.9	-33	645	15.6	0.77
1325	24.63	5.89	-147	793	29	0.48
1330	24.22	5.88	-162	823	21.8	0.4
1335	23.88	5.82	-180	757	10.6	0.36
1340	23.71	5.57	-181	619	9	0.34
1345	24.02	5.54	-191	629	6.8	0.32
1348	24.02	5.53	-201	635	7.6	0.31
1351	23.89	5.53	-206	634	8.4	0.31
1354	24.01	5.52	-208	644	6.7	0.3

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

**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-7	29.94	9.44	15- 35	2/17/2022	1005	26.73

Drawdown: 9.51 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)
934	22.5	6.52	-209	2810	118	0.44
939	21.93	6.46	-224	2800	42.2	0.49
944	22.04	6.47	-240	2800	19.9	0.41
949	22.36	6.46	-244	2780	14.3	0.33
954	22.39	6.45	-243	2770	28.5	0.42
959	22.33	6.44	-248	2780	7.9	0.35
1002	22.37	6.45	-252	2780	7.9	0.33
1005	22.45	6.44	-255	2780	6.1	0.31

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

**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-A1-1	28.14	6.24	10-20	2/16/2022	1346	23.08

Drawdown: 6.44 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)
1315	20.2	4.76	-15	314	0	1.07
1320	20.07	4.75	-53	319	9.9	0.7
1325	20.19	4.71	-63	319	5.7	0.49
1330	20.24	4.71	-73	320	3	0.46
1335	20.26	4.72	-78	320	0	0.48
1340	20.33	4.67	-83	316	0	0.39
1343	20.41	4.67	-86	323	0	0.37
1346	20.49	4.67	-90	324	0	0.35

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Appendix C – Alternate Source Demonstration

REPORT ON
ALTERNATE SOURCE DEMONSTRATION (ASD)
WINYAH GENERATING STATION
CLASS 3 LANDFILL AREA 1
GEORGETOWN, SOUTH CAROLINA

by Haley & Aldrich, Inc.
Greenville, South Carolina

for South Carolina Public Service Authority (Santee Cooper)
Moncks Corner, South Carolina

File No: 0132892-014
October 2022



Certification Page

**SANTEE COOPER
WINYAH GENERATING STATION; CLASS 3 LANDFILL AREA 1 APPENDIX III SSI ALTERNATE SOURCE
EVALUATION**

Pursuant to 40 CFR §257.94(e)(2), Haley & Aldrich, Inc., on behalf of Santee Cooper, conducted an alternate source evaluation to demonstrate that a source other than the Class 3 Landfill Area 1 caused the statistically significant increase 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 Class 3 Landfill Area 1 is the cause of the statistically significant increase (SSI) over background levels for Appendix III constituents detected 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

October 24, 2022

Table of Contents	Page
Certification Page	i
List of Tables	iii
List of Figures	iii
List of Appendices	iv
1. Introduction	1
1.1 SCOPE AND OBJECTIVE	1
1.2 CCR RULE REQUIREMENTS	2
1.3 MONITORING WELL NETWORK FOR THE WGS LANDFILL AREA 1	2
1.4 SITE HISTORY FOR THE WGS UNIT 2 SLURRY POND AND LANDFILL AREA 1	3
2. Alternate Source Demonstration	5
2.1 WGS UNIT 2 SLURRY POND CONTENTS	5
2.2 WGS CLASS 3 LANDFILL AREA 1 CONTENTS	5
2.3 WGS CLASS 3 LANDFILL AREA 1 CONSTRUCTION AND OPERATIONS	6
2.3.1 Placement of Waste	6
2.3.2 Composite Liner and Leachate Collection and Removal System	6
2.3.3 Contact Stormwater Management	7
2.3.4 Annual Inspections	7
2.4 HYDROGEOLOGICAL EVALUATION	8
2.5 FLUORIDE EVALUATION	9
2.5.1 Laboratory Quality Control (QC) Sample Analyses	9
2.5.2 Field Instrument Calibration and Low-Flow Sampling Logs	10
2.5.3 Method Detection Limit (MDL) Study Standard Operating Procedure	10
2.5.4 Statistical Analysis	11
2.5.5 Summary of Findings for the Laboratory Analytical Data Evaluation	11
2.6 BORON AND CHLORIDE EVALUATION	11
2.6.1 General Groundwater Chemistry, Quality, and Leachate Evaluation	11
2.6.1.1 Time-Series Plots	11
2.6.1.2 Bivariate and Piper Plots	12
2.7 STATISTICAL EVALUATION	14
2.7.1 Intrawell Statistical Evaluation	14
2.7.2 Review of Unit 2 Slurry Pond Interwell Statistical Results	14
2.7.3 Boxplots	15
3. Findings and Conclusions	16
4. References	19

List of Tables

Number	Title
1	Soil Analytical Results
2	Additional Intrawell Statistical Data

List of Figures

Number	Title
1A	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February - March 2021
1B	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, August 2021
1C	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February 15-16, 2022
1D	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, July 5-6, 2022
1E-1	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, June 2020
1E-2	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, February 2020
1E-3	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, January 2019
1E-4	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, August 2018
Figure 2	Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, June 2018
Figure 3	Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February 2020
Figure 4	Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February 2022

Figure 5

Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond,
July 2022

List of Appendices

Designation	Title
--------------------	--------------

A	Letter from SCDHEC Approving State Closure of Unit 2 Slurry Pond (August 2017)
B	Time-Series Plots
C	Bivariate Plots
D	Piper Plots
E	Boxplots

1. Introduction

The Class 3 Landfill Area 1 (Landfill Area 1), located at the Winyah Generating Station (WGS), was constructed in 2018 within the footprint of the Closed Unit 2 Slurry Pond. Landfill Area 1 began operations after completing baseline sampling, with the initial placement of waste on November 2, 2018. The statistical analysis conducted following the first round of detection monitoring identified statistically significant increases (SSIs) above background levels of one or more Appendix III constituents. Because Landfill Area 1 is co-located with the Closed Unit 2 Slurry Pond, and because the Appendix III constituents were identified during baseline sampling prior to the placement of waste, an alternate source demonstration (ASD) was conducted, as defined at 40 Code of Federal Regulations (CFR) §257.94(e)(2) (Haley & Aldrich, 2019). This document is posted on the CCR Rule Compliance Data and Information website for the Winyah Generating Station. (<https://www.santeecooper.com/About/CCR-Data-Rule/Winyah/Index.aspx>).

The initial ASD found the WGS Unit 2 Slurry Pond was the alternate source of the SSIs identified during 2019 detection monitoring (Haley & Aldrich, 2019). The initial ASD compared groundwater quality conditions downgradient of Landfill Area 1, prior to receiving coal combustion residuals (CCR), to observed Appendix III constituent concentrations detected after Landfill Area 1 began operations. As stated above, this conclusion was not unexpected because Landfill Area 1 is located within the exact footprint of the excavated Unit 2 Slurry Pond and because the Appendix III constituents were identified in groundwater prior to the placement of CCR in Landfill Area 1. The Unit 2 Slurry Pond, which is now excavated and closed pursuant to South Carolina Department of Health and Environmental Control (SCDHEC) regulations, is an excavated CCR unit, and as such, assessment monitoring is ongoing. Based on the findings of the initial ASD, Landfill Area 1 remained in detection monitoring, and intrawell statistics were used to evaluate Appendix III constituents following the ASD submittal.

Following completion of the detection groundwater monitoring event in January 2022, SSIs of fluoride at WLF-A1-3, and boron and chloride at WAP-7 were identified. The SSIs for the January 2022 semiannual groundwater sampling event were identified within 90 days of receiving the validated lab reports, and the notification was placed into the facility's operating record on July 27, 2022.

Due to the 2022 determination of SSIs for fluoride at WLF-A1-3, and boron and chloride at WAP-7, Santee Cooper elected to reassess the previously identified alternate source, the Unit 2 Slurry Pond, and assess the possibility of additional sources that could be the cause of the SSIs at Landfill Area 1. Haley & Aldrich, Inc. (Haley & Aldrich) was retained by Santee Cooper to conduct an ASD to demonstrate that a source other than Landfill Area 1 caused the SSIs of fluoride, chloride, and boron. This ASD also evaluated the potential for Landfill Area 1 to be a contributing source to the SSIs.

As presented in the sections that follow, findings of this ASD conclude that the 2022 SSIs for fluoride, boron, and chloride were the result of a physical alternative source, specifically the Unit 2 Slurry Pond, in addition to sampling, laboratory, statistical causes, and natural variation. Furthermore, the ASD supports the findings of the initial ASD and provides evidence that the relatively new Landfill Area 1 is currently not a contributing source.

1.1 SCOPE AND OBJECTIVE

The objective of this ASD is to present the data and technical evaluation to document that an alternate source exists that is responsible for the concentrations of fluoride, boron, and chloride detected in

downgradient monitoring wells, including WLF-A1-3 (fluoride) and WAP-7 (boron and chloride). This supplemental ASD provides additional lines of evidence to support prior findings of the initial ASD and further evaluates fluoride, boron, and chloride based on hydrogeological, geochemical, and statistical conditions, laboratory analytical data evaluations, and consideration of the construction and operations of Landfill Area 1.

1.2 CCR RULE REQUIREMENTS

The U.S. Environmental Protection Agency (USEPA) regulations regarding assessment 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 a SSI (40 CFR §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 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 [...]”

Additionally, the USEPA Part A Determinations issued on January 11, 2022, commented that ASDs should also meet the lines of evidence as outlined in the *EPA Solid Waste Disposal Facility Criteria Technical Manual (1993)*. These lines of evidence include the following:

1. Existence of an alternative source;
2. A hydraulic connection exists between the alternative source and the groundwater well with the 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. 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. 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.

1.3 MONITORING WELL NETWORK FOR THE WGS LANDFILL AREA 1

The monitoring well network for Landfill Area 1 was installed during landfill construction in May 2018. Design of the Landfill Area 1 groundwater monitoring well network considered prior groundwater monitoring networks. Specifically, the CCR groundwater monitoring network and the historical SCDHEC facility National Pollutant Discharge Elimination System (NPDES) permit groundwater monitoring wells for the Unit 2 Slurry Pond were considered because of their co-location at the two CCR units.

The monitoring well network for Landfill Area 1 includes one upgradient monitoring well (WBW-A1-1), and six downgradient monitoring wells: WAP-7, WLF-A1-1, WLF-A1-2, WLF-A1-3, WLF-A1-4, and

WLF-A1-5. Groundwater monitoring wells WLF-A1-1, WLF-A1-2, WLF-A1-3, WLF-A1-4, and WLF-A1-5 were installed to monitor groundwater quality in the uppermost aquifer and are screened in the same hydrostratigraphic unit as the other existing wells that have undergone groundwater monitoring for the Unit 2 Slurry Pond since 1995 pursuant to SCDHEC regulations. The inclusion of WAP-7, an existing well historically used to monitoring downgradient conditions of the Unit 2 Slurry Pond, was intentional in that this sampling location afforded the added benefit of providing historical data.

1.4 SITE HISTORY FOR THE WGS UNIT 2 SLURRY POND AND LANDFILL AREA 1

This detailed summary of the site history of the WGS Unit 2 Slurry Pond and Landfill Area 1 was incorporated into the ASD evaluation because of its relevance in determining the source of the SSIs. As previously noted, the approximately 31.3-acre WGS Landfill Area 1 was constructed in the footprint of the excavated WGS Unit 2 Slurry Pond. The Unit 2 Slurry Pond is an inactive CCR unit as defined by 40 CFR §257.53. The Unit 2 Slurry Pond was constructed in 1977 and was inactive for many years prior to excavation (i.e., closure-by-removal) in accordance with a State-approved closure plan. While inactive, the unlined Unit 2 Slurry Pond was not capped and was capable of impounding water, resulting in hydraulic loading. Downgradient monitoring well WAP-7 had been used to monitor the Unit 2 Slurry Pond under the NPDES program since 1995, and historical analytical data from the NPDES program is used for this ASD.

State closure of the inactive Unit 2 Slurry Pond was complete pursuant to SCDHEC regulations on November 9, 2017. The SSIs above background levels have been identified downgradient of the Unit 2 Slurry Pond, triggering assessment monitoring. The unit has not identified Statistically Significant Levels (SSLs) of Appendix IV constituents above Groundwater Protection Standards (GWPS) while in assessment monitoring; therefore, it has not triggered corrective measures under the CCR Rule. As a result, the Unit 2 Slurry Pond remains in assessment monitoring. The State closure process involved removal of visible CCR and a layer of underlying subsurface soil. Santee Cooper filed a Notice of Intent (NOI) to initiate closure of the Unit 2 Slurry Pond and placed the NOI in the facility's operating record in December 2015. By May 2017, CCR had been removed from the Unit 2 Slurry Pond, and closure continued with removal of some subsurface soils followed by confirmation soil sampling and grading for drainage. Confirmation soil sampling after removal of CCR demonstrated that CCR constituents had been removed to levels acceptable to SCDHEC and are protective of human health and the environment with land use controls. Even with removal of the CCR and a layer of subsurface soil, analytical results of the remaining soil detected measurable concentrations of multiple constituents including boron, fluoride, and chloride (Table 1).

To prepare for the WGS Landfill Area 1 operation as a CCR unit, five additional downgradient groundwater monitoring wells (WLF-A1-1 through WLF-A1-5) were installed in May 2018. Per baseline sampling requirements in 40 CFR §257.94(b), eight (8) baseline sampling events were completed at each downgradient monitoring well between June and August 2018 prior to receipt of CCR to establish baseline groundwater quality conditions of Landfill Area 1 prior to placement of CCR in Landfill Area 1. These eight baseline samples were analyzed for the Appendix III and Appendix IV constituents consistent with the CCR Rule. Construction of Landfill Area 1 began during this time frame.

Landfill Area 1 has a composite liner system with leachate collection. The first receipt of waste in Landfill Area 1 occurred November 2, 2018, when SCDHEC issued the Permit to Operate. Detection monitoring was conducted as required by 40 CFR §257.94. A statistical analysis of the Appendix III constituents detected in groundwater downgradient of Landfill Area 1 was performed by Haley & Aldrich 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 total dissolved solids (TDS). As noted earlier, a successful ASD was completed for Landfill Area 1, and as a result, Landfill Area 1 remained in detection monitoring relying on intrawell statistical tests to evaluate Appendix III constituents.

The total footprint of Landfill Area 1 is 31.3 acres. At this time, Landfill Area 1 is operating and receiving waste while one section has completed closure. Closure was complete on June 11, 2022 on approximately 12 acres around the bottom perimeter of Landfill Area 1. Closure steps included:

- Final placement of fine subgrade CCR material;
- Completion of general earthwork including placement of borrow fill to form a tack-on berm along the lower perimeter of the closure;
- Installation of a non-woven needle-punched geosynthetic clay liner (GCL) placed directly on top of prepared CCR subgrade;
- Installation of Closure Turf directly on top of the GCL;
- Installation of dndrain pipes to manage non-contact stormwater; and
- Installation of a chimney drain that captures ash contact stormwater in the remaining open areas of Landfill Area 1 and routes it through the leachate collection system.

Accordingly, ash contact stormwater and leachate are collected and handled in enclosed systems to prohibit a non-permitted release outside Landfill Area 1.

2. Alternate Source Demonstration

Consistent with the CCR Rule, this ASD evaluates multiple lines of evidence to address the identified SSIs individually and collectively. As presented below, this ASD identified contributing factors in the sampling and statistical analysis of fluoride and sources of fluoride, boron, and chloride in groundwater other than Landfill Area 1. The ASD activities performed by Haley & Aldrich included hydrogeological, geochemical, statistical, and laboratory analytical data evaluations in consideration of the location, contents, construction, and operations of Landfill Area 1.

The findings of this ASD demonstrate that the SSIs identified are not related to a release from Landfill Area 1. Rather, the ASD evaluations show that the fluoride detections are due to variability in sampling and laboratory analytical results, and that the residual constituents in soil and groundwater beneath the excavated Unit 2 Slurry Pond (Table 1) continues to be the source of the SSI of Appendix III constituents boron and chloride. The findings of the ASD evaluations and the lines of evidence that support this determination are described below.

2.1 WGS UNIT 2 SLURRY POND CONTENTS

The contents of the former Unit 2 Slurry Pond are discussed in this section because they were identified as the source in the September 2019 ASD and are being currently evaluated in more detail to provide additional lines of evidence to support the premise that the Unit 2 Slurry Pond remains the source of the identified Appendix III constituent SSIs. The Unit 2 Slurry Pond was used exclusively as an industrial wastewater treatment pond for the disposal of flue-gas desulfurization (FGD) wet scrubber slurry from the original FGD systems installed on the WGS operating units. These FGD systems were not forced oxidation systems. Therefore, contents of the pond were largely calcium sulfite (CaSO_3) and unreacted limestone (calcium carbonate [CaCO_3]) which had been mined from local quarries. Because of the inefficiencies of the early FGD systems, the limestone was not always exhausted in the FGD process; therefore, residual limestone was present in the wastewater.

Coal contains varying amounts of chlorine and fluorine. When coal is burned, these elements are removed by adhering to the fly ash particles or by being removed in the FGD system. Thus, chlorides and fluoride, which are notorious for causing maintenance issues in FGD systems, are in the FGD wastewater in addition to the calcium sulfite and limestone. Limestone is known to contain total boron and fluoride at concentrations that vary between 100 to 1,000 and 5 to 150 milligrams per kilogram (mg/kg), respectively (Uppin and Karro, 2013). The FGD slurry was reused in the FGD system until the water quality was insufficient for use due to high chloride content. Subsequently, high chloride FGD slurry wastewater was discharged to the Unit 2 Slurry Pond. Throughout the operations of the WGS Unit 2 Slurry Pond, it only received FGD wastewater and did not receive ash sluice water or direct discharge of fly ash or bottom ash. As noted earlier, even though CCR contents in the pond were excavated during closure, testing of the residual subsurface soils showed measurable amounts of constituent concentrations, including boron, fluoride, and chloride.

2.2 WGS CLASS 3 LANDFILL AREA 1 CONTENTS

A technical engineering evaluation of the contents, construction, and operations of Landfill Area 1 was conducted to determine the potential of a release from this relatively new and well-constructed landfill. The findings discussed below demonstrate the improbability that Landfill Area 1 is an additional contributing source of the detected Appendix III constituent SSIs.

Landfill Area 1 contains primarily (95.2 percent) ponded ash from WGS Ash Ponds A and B which are undergoing excavation for State closure. The ponded ash is a mixture of approximately 80 percent fly ash and 20 percent bottom ash, and WGS Ash Ponds A and B have SSLs of arsenic, lithium, and molybdenum. Landfill Area 1 also contains non-specification gypsum (1.1 percent) and non-marketable bottom ash (0.3 percent) generated at WGS. Lastly, it contains some subsurface soils (3.4 percent) from Santee Cooper's closure of the Grainger ash ponds.

Analytical results from the ash contact stormwater (leachate) samples reflect the contents of Landfill Area 1. A 2020 sample of ash contact stormwater shows elevated arsenic (47.9 micrograms per liter [$\mu\text{g/L}$]), molybdenum (251 $\mu\text{g/L}$), and selenium (96.9 $\mu\text{g/L}$) (GEL Laboratories, 2020). An August 2022 leachate sample showed fluoride was below the detection limits (<0.1 mg/L).

2.3 WGS CLASS 3 LANDFILL AREA 1 CONSTRUCTION AND OPERATIONS

The WGS Landfill Area 1 is a permitted Class 3 Industrial Solid Waste Landfill which was specifically designed, constructed, and operated to meet requirements of the CCR Rule (40 CFR Part 257) and SCDHEC landfill regulations. The Landfill Operator-in-Charge and the South Carolina-licensed Professional Engineer (P.E.) who conducted three years of annual inspections were interviewed for this ASD. 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 from the landfill which could be contributing to the SSIs of Appendix III constituents.

Landfill Area 1 was constructed so that waste is placed with greater than five feet of separation from the seasonal high-water table. The landfill was constructed with a composite liner system, a leachate collection system, and a contact stormwater collection system. It was designed and constructed to prohibit the release of materials, including leachate, into the environment. Throughout the construction process, Santee Cooper engineers oversaw the construction to ensure it was completed in accordance with the permitted construction drawings. Construction quality assurance was contracted to a third-party team of consultants who performed rigorous, industry-standard testing to ensure and certify construction was completed as designed and permitted. Santee Cooper oversees the operation of the landfill and oversees or conducts routine inspections. 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.

2.3.1 Placement of Waste

The CCR Rule under 40 CFR §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." The *Location Restrictions Compliance Demonstration* (Geosyntec Consultants [Geosyntec], 2018) reviewed the design and construction and judged that it complies with the requirements of 40 CFR §257.60(a) due to its placement above the uppermost aquifer.

2.3.2 Composite Liner and Leachate Collection and Removal System

The Landfill Area 1 liner system was designed and constructed to meet the design criteria requirements. The Construction Project Manager-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 40 CFR §257.70 (GeoSyntec, 2017). The *Construction Quality Assurance Report* documents that the WGS Landfill Area 1 liner system and leachate collection and removal system was constructed in accordance with the permit

drawings and the permitted technical specifications (Santee Cooper, 2018). Landfill Area 1 has a leachate collection system (LCS) 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 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 1 has six leachate pumps with two large pipes that convey the collected leachate to the discharge point, which is the WGS Cooling Pond complex, a permitted wastewater treatment unit. These pumps operate on a regular basis to handle and discharge leachate and ash contact stormwater without any history of an unpermitted release.

2.3.3 Contact Stormwater Management

Contact water is stormwater runoff that has been in contact with exposed CCR waste in the active areas of Landfill Area 1. The contact water is managed through sequential management as ongoing lifts of waste are placed in a landfill area cell. Initially, when the elevation of waste was below the elevation of the landfill perimeter, contact water was removed via pumps and discharged to the WGS Cooling Pond Complex. After the elevation of CCR waste was raised above the elevation of the landfill perimeter, a chimney drain decant structure was 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 help 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 Cooling Pond Complex. Again, the leachate system is enclosed and lined until it discharges into the WGS Cooling Pond Complex (Geosyntec, 2021).

2.3.4 Annual Inspections

The landfill is formally inspected weekly by trained landfill operators under the supervision of the Landfill Operator-in-Charge. It is also inspected annually by professional civil engineers. From a compliance perspective, the landfill is inspected monthly by SCDHEC. To date, there have been no landfill violations based on regulatory inspections. Additional 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 on September 18, 2019 by a professional engineer, less than one year after initial operations. At the time of the inspection, the landfill contained approximately 22,220 cubic yards of CCR, which included bottom ash and non-specification gypsum. The inspection report finding was that the landfill “was found to be in satisfactory condition with no significant findings noted.” Additionally, a review of the weekly inspections indicated no major structural or operational problems (Santee Cooper, 2019).

The second annual inspection was conducted on October 7, 2020. Again, the landfill was “generally found in satisfactory condition.” At the time of the inspection, the landfill contained approximately 375,000 cubic yards of material, which included soil from the Grainger Generating Site and ash from the Winyah Ash Ponds A (Santee Cooper, 2020).

The third annual inspection was conducted on October 5, 2021, and as in previous inspections, the “Landfill was generally found in satisfactory condition.” Several maintenance items were noted, specifically reseeding bare soil areas, and trimming vegetation. These maintenance issues in no way compromised the integrity of the landfill or indicated a release had occurred from the landfill. At that time, the landfill contained approximately 1,102,424 cubic yards of material. Throughout the period of the annual inspections, informal daily and formal weekly inspections were conducted in accordance with good engineering practices, and the weekly inspection reports were reviewed by the professional engineer (Santee Cooper, 2021).

Based on the review of the construction and operations of Landfill Area 1, there is no obvious evidence of a release directly from the landfill.

2.4 HYDROGEOLOGICAL EVALUATION

The hydrogeological evaluation for this ASD consisted of preparing groundwater elevation contour maps (potentiometric maps) for February 2021, August 2021, February 2022, and July 2022 (Figures 1A through 1D). The potentiometric maps are used to interpret groundwater flow direction and approximate flow rates (velocity). The February 2021 through July 2022 potentiometric maps, as well as historical potentiometric maps (Figures 1E-1 through 1E-4) submitted to DHEC by Santee Cooper (2018 to 2020) for the Unit 2 Slurry Pond show that groundwater has consistently flowed in a radial pattern away from the unit to the south, southwest, or southeast across Landfill Area 1 and Unit 2 Slurry Pond. Groundwater flow direction has remained relatively consistent to the southwest or to the south throughout the groundwater monitoring period.

Average linear velocity of groundwater flow in the uppermost aquifer at Landfill Area 1 is calculated to be approximately 0.02 feet per day (ft/day) or 7 feet per year (ft/year). This value was calculated using interpreted groundwater flow and hydraulic gradients calculated for the 2021 and 2022 semiannual events (Figures 1A through 1D).

Isoconcentration maps of the Appendix III constituents with SSIs were prepared for June 2018, February 2020, February 2022, and July 2022 (Figures 2 through 5, respectively). The isoconcentration maps can be used to identify specific source areas for constituents of concern and be used to characterize the lateral chemical 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 June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. Subsequent isoconcentration maps demonstrate that the plumes are migrating to the south in the direction of groundwater flow toward well WAP-7. The isoconcentration maps show that fluoride detections are sporadic near the laboratory RL of 0.1 mg/L.

The distance between the southern edge of the Unit 2 Slurry Pond and well WAP-7, which monitors the southern boundary of both Landfill Area 1 and the Unit 2 Slurry Pond, is over 50 feet on the outer edge of the landfill access road. Based on the location of WAP-7, the groundwater flow rate, and the location of the CCR in Landfill Area 1, it is unlikely that a release directly from the landfill would have culminated

in the monitoring area of the well during the first four years of landfill operations. Additionally, the length of the groundwater flow path from WLF-A1-1 to WAP-7 is approximately 1,500 feet, which represents approximately 200 years for constituents to migrate from WLF-A1-1 beneath the northern portion of the unit to WAP-7 and completely flush through the system.

Knowing that the Unit 2 Slurry Pond began operating in 1977, and that during operation the groundwater flow velocity would have been greater due to the head on the pond, there has been sufficient time for releases from the Unit 2 Slurry Pond to migrate to the downgradient monitoring wells. Conversely, one would conclude that there has not been enough time for a release from the new Landfill Area 1 to have reached the downgradient monitoring wells, even if that release occurred on the first day of operation, November 2, 2018.

2.5 FLUORIDE EVALUATION

The statistical evaluation of the March 2022 sampling event identified a SSI for fluoride at monitoring well WLF-A1-3. This was the first detection of fluoride at WLF-A1-3 above the reporting limit of 0.1 mg/L, and as a result was identified as a SSI, even though the measured value of 0.15 mg/L is well below the GWPS of 4 mg/L.

This evaluation and discussion of the fluoride SSI is independent from the chloride and boron SSI evaluation primarily because the SSI was detected in a different groundwater monitoring well from the chloride and boron and because the factors contributing to the SSI were different than the factor identified for boron and chloride. While a confirmation sample was not collected following the March 2022 sampling event, fluoride was not detected in subsequent sampling conducted in July and in August 2022, consistent with previous results. This warranted an in-depth sampling, analytical, and statistical review to supplement the full ASD evaluation.

Of note, other downgradient wells WLF-A1-2 and WLF-A1-5 showed comparable concentrations of fluoride in 2018 prior to the placement of CCR in Landfill Area 1, with results also slightly above the reporting limit and ranging from 0.11 mg/L to 0.14 mg/L. Based on knowledge of the contents of the Unit 2 Slurry Pond and on analytical results from soil sampling, fluoride is known to exist in areas of the soil left in-place after excavation of the pond and prior to construction of the landfill. Conversely, one sample was collected from the Landfill Area 1 leachate discharge on September 15, 2022, and the sample was non-detect (<0.1 mg/L) for fluoride. This indicates there is the potential for natural site variability with fluoride having the potential to be sporadically detected near the reporting limit; however, it is not indicative of a release from Landfill Area 1.

To provide additional information for this ASD and prior to receiving the results for the July and August 2022 sampling results, an evaluation of fluoride results from the March 2022 sampling event was performed by Haley & Aldrich by reviewing laboratory quality control (QC) sample analyses, field instrument calibration and low-flow sampling logs, and the method detection limit (MDL) study standard operating procedures (SOPs). The intent of the evaluation was to determine if the detected concentrations of fluoride and other constituents could be due to either analytical or sampling procedure anomalies that may have biased the reported results.

2.5.1 Laboratory Quality Control (QC) Sample Analyses

On August 29, 2022, Santee Cooper provided a summary of the analyses of groundwater collected from well WLF-A1-3 from June 2018 through August 2022. The spreadsheet included results of laboratory

analysis for inorganic constituents arsenic, barium, calcium, cadmium, and cobalt, and iron by USEPA Method 6020A, boron by USEPA Method 6010C, chloride, fluoride and sulfate by USEPA Method 300, and radium by method EPA 903.1 MOD and EPA 904.0. It also included the indicator field parameters pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity, which was obtained by the sampling team corresponding with each sample submitted for laboratory analysis.

A comparison of the historical dataset to the March 2022 results by the laboratory staff identified several parameters in the March 2022 dataset that were present at the highest observed concentrations. These parameters included turbidity measured in the field and cobalt and fluoride determined in the laboratory. (Note: The concentrations of chloride and boron detected in the March 2022 sample were below the historical highest concentration detected at this well location.)

Santee Cooper also provided the QC information for the analysis of anions, nitrate, chloride, fluoride, bromide, and sulfate by USEPA Method 300 for the March 2, 2022 sample. The QC sheet provides a summary of the results for QC samples including initial and continuing calibration verification standards, the minimum reporting limit (MRL) standard, and laboratory duplicate and matrix spike sample analyses. Review of the QC sheet information indicates that the analytical system used for the analysis of these parameters was within the acceptance limits for the method and the reported results were representative of the sample conditions.

2.5.2 Field Instrument Calibration and Low-Flow Sampling Logs

On August, 29 2022, Santee Cooper also provided the calibration logs for the field instruments used to monitor the indicator parameters during the collection of the groundwater samples for analysis throughout 2022. Review of the calibration logs confirmed that the field instruments were calibrated with appropriate standard reference materials (SRMs) prior to use. Review of the low-flow sampling logs confirmed that the sample collected on March 2, 2022 from WLF-A1-3 exhibited elevated turbidity measurements ranging from 6.3 to 22.5 nephelometric turbidity units (NTUs) when compared to sampling events conducted prior to and after the March 2022 sampling event.

The cause of the elevated turbidity is unknown. Santee Cooper performed low-flow groundwater sampling in accordance with the USEPA-developed low-flow sampling techniques, which addresses issues associated with the suspension of aquifer materials within monitoring wells installed in fine-grained water-bearing units (USEPA, 1996). Haley & Aldrich recommends that the turbidity should be below 10 NTUs before collecting a groundwater sample; and below 5 NTUs if practicable to ensure the constituent metals concentrations are representative of groundwater conditions and are not potentially biased-high due to elevated turbidity levels. The slightly elevated turbidity represents a potential source of error contributing to the identified SSI.

2.5.3 Method Detection Limit (MDL) Study Standard Operating Procedure

On August 31, 2022, Santee Cooper provided a copy of Revision 4 of the laboratory's MDL study SOP dated April 19, 2021. Review of the SOP indicates that the determination of the MDL for the laboratory analyses is consistent with the procedure promulgated at CFR Part 136, Appendix B, as revised by the USEPA in December 2016. Thus, the RLs established based on the MDL studies performed by the laboratory incorporate the variability for measurements obtained throughout the instrument calibration range and should preclude the potential for false positive results at concentrations above the laboratory RL. During a telephone conference call with the Santee Cooper laboratory on August 22, 2022,

laboratory staff indicated parameters detected at concentrations above the MDL but below the established RL are not reported to the data user.

2.5.4 Statistical Analysis

The laboratory policy of not reporting concentrations above the MDL, but below the established RL could have affected the identification of fluoride as a statistical exceedance since all previous and subsequent sample results were reported below the RL, thus creating a one-sided dataset that was used to establish the action level. This creates the potential for a positive bias in the data evaluation for fluoride. Additionally, the statistics for the March 2022 sampling event were based on an upper prediction limit (UPL) of 0.1 mg/L based on 14 sampling events. The intrawell confidence level was 77.8 percent and the interwell uncertainty was 63.6 percent.

2.5.5 Summary of Findings for the Laboratory Analytical Data Evaluation

Based on the review of the historical data, laboratory QC and field instrument calibration procedures, and the low-flow sampling logs, the elevated concentration of fluoride detected in the March 2, 2022 sample obtained from well WLF-A1-3 is likely due to suspended solids entrained within the field sample during sample collection. Each of these parameters can be associated with the suspended solids observed in the March 2022 WLF-A1-3 sample prior to collection. This conclusion is also supported by the elevated concentrations of cobalt and radium 226/228 detected in the March 2022 sampling event for the Unit 2 Slurry Pond as compared with historical and subsequent samples collected from well WLF-A1-3.

In conclusion, the findings of the sampling and laboratory evaluation combined with the calculated statistical uncertainties and knowledge of prior site conditions “demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality” (Ref 40 CFR §257.94 (e)(2)).

2.6 BORON AND CHLORIDE EVALUATION

2.6.1 General Groundwater Chemistry, Quality, and Leachate Evaluation

The results and discussion for the general groundwater chemistry and quality evaluations are provided in the sections below and include evaluations of time-series plots, bivariate plots, and piper plots of the constituents where SSIs were identified (boron and chloride) along with other relevant indicator parameters. The data presented in the time-series and bivariate plots include the background well (WBW-A1-1) and downgradient monitoring wells (WAP-7 and WLF-A1-1 through WLF-A1-5). Data for the constituents plotted were available from June 2018 through August 2022 for each of the monitoring wells. Some constituents (chloride, sulfate, TDS, calcium, and specific conductivity) were available for WAP-7 from October 1995 through August 2022. Two graphs were constructed for the constituents where long-term data is available for WAP-7. One graph shows 2018 to 2022 data for each of the wells, and a second graph shows the available historical data for WAP-7.

2.6.1.1 Time-Series Plots

Time-series plots are used to evaluate how constituents are changing over time at a site. While time-series graphs should not be the sole method for evaluating constituent data, they are useful to evaluate

site data when combined with other lines of evidence such as hydrogeological and other geochemical evaluations, such as bivariate plots. The time-series plots for constituents with SSIs, other indicator parameters, and water levels are presented as Appendix B-1 and Appendix B-4. The time-series plots include data for the background monitoring well and the downgradient monitoring wells.

The temporal plots show that boron and chloride concentrations have increased in WAP-7 to a concentration similar to that of WLF-A1-1 in June 2018. This concentration trend is similar for other Appendix III constituents as well as other indicator parameters, including calcium, sulfate, specific conductivity, and TDS. This is consistent with the hydrogeological evaluation that demonstrated that a plume of boron and chloride, sourced by the Unit 2 Slurry Pond, is still migrating along the groundwater flow path beneath the former Unit 2 Slurry Pond from WLF-A1-1 to the south to WAP-7 before discharging into the WGS Cooling Pond complex.

Historical concentrations of the following constituents were recorded in monitoring wells at the Unit 2 Slurry Pond and Class 3 Landfill Area 1 before waste was placed into the unit at concentrations higher than the recent detections of boron and chloride in WAP-7:

- Boron: 4,100 µg/L at WLFA1-1 and 3,000 µg/L at WLF-A1-5
- Chloride: 1,671 mg/L at WAP-7, 270 mg/L in WLF-A1-1, and 211 mg/L at WLF-A1-2

A leachate sample was collected by Santee Cooper on October 2, 2020 and was analyzed for several metals, including boron. The boron concentration was 1,530 µg/L, which at that time was higher than concentrations of boron measured in WAP-7 (February 2021 to August 2021), but lower than the concentrations in WLF-A1-1 (2,400 µg/L). Boron concentrations in leachate collected in 2021 and 2022 are also lower than historical concentrations of boron and chloride at WLF-A1-1 before waste was placed into Landfill Area 1. The leachate boron results show that the boron concentrations in WAP-7 would not have resulted from the leachate because the recent boron concentrations in WAP-7 are higher than the leachate concentrations, and therefore the concentrations in leachate are not high enough to be the source. The decreasing concentrations of boron along the northern boundary at WLF-A1-1 combined with the increasing concentration trend for boron at WAP-7 is consistent with the hydrogeologic framework and indicative of a boron plume that is migrating through the shallow groundwater system.

2.6.1.2 *Bivariate and Piper Plots*

Bivariate plots help explore correlations between constituents of concern and other indicator parameters that may be used to reveal the signature or fingerprint of a groundwater source and identify differences indicative of alternate sources. The bivariate plots were used to evaluate groundwater types and signatures at the site. The bivariate plots constructed were sulfate versus (vs) chloride, chloride vs TDS (Appendix C-1), calcium vs sulfate and sulfate vs TDS (Appendix C-2), and chloride vs boron, sulfate vs boron, and calcium vs boron (Appendix C-3). The bivariate plots show each monitoring well used to monitor the unit. Data from 2018 through 2022 were plotted, and a second bivariate plot was constructed where historical data for WAP-7 (1995 through 2017) were available to compare long-term bivariate correlations. The three most recent data points for WAP-7 (February 2022, July 2022, and August 2022) are shown separately on each bivariate plot to identify how the recent constituent concentrations in WAP-7 compare to previous sampling events, as well as how they compare to other wells for the site.

The site monitoring wells generally plot along the same regression line on the bivariate plots. This linear relationship shows that the signature of constituents in the monitoring wells are similar and that the monitoring wells are being influenced by the same source under different dilution of spatial conditions. The results of the recent sampling events (February 2022-August 2022) for WAP-7 overlap with the signature of WLF-A1-1. Monitoring well WLF-A1-5 is also overlapping with the signature of WLF-A1-1 as concentrations of boron and chloride increase. The increase in concentrations in the downgradient wells that plot along the regression line supports the results of the hydrogeological evaluation that shows that the boron and chloride plumes are migrating through the groundwater along the direction of groundwater flow. The data points fluctuate around the regression line because of the dynamic groundwater system after the landfill has been put in place but are showing a trend through time representing the plume migration.

Limited leachate data were available for the bivariate plots but were included in the evaluation. For the 2018-2022 dataset, the leachate shows a similar proportion of constituents (i.e., plots along the regression line) at the high end of the concentration range. Concentration of constituents for well WLF A1-1 also plot along the regression line at the high end of the concentration range. The leachate plots along the same regression line as the site monitoring wells and overlaps with the signature of site monitoring wells, which means that the signature of the leachate on the bivariate plots is inconclusive for disqualifying leachate as a possible source. However, where historical data are available (1995 to 2017) for WAP-7 and added to the bivariate plots (Appendix C-1 and Appendix C-2), the concentration and ratios of constituents in WAP-7 for the 2022 sampling events as well as the values for WLF-A1-1 and the leachate are within the variability of historical concentrations present before waste was placed into Landfill Area 1.

Metals concentrations measured in the leachate sample for Landfill Area 1 contained elevated metals concentrations of arsenic (47.9 µg/L), molybdenum (251 µg/L), and selenium (96.9 µg/L). Molybdenum and selenium have not been detected in the downgradient monitoring wells. Arsenic is typically non-detect or detected sporadically at low-level concentrations below the GWPS (<10 µg/L), including at WLF-A1-3 before CCR was placed into Landfill Area 1, which indicates that low-level concentrations of arsenic are representative of groundwater conditions prior to operation of Landfill Area 1. The absence of the metals in the leachate when compared to the monitoring wells supports the hydrogeological evaluation that leachate would not have had time to reach the site monitoring wells and further indicates there is not a release from Landfill Area 1 that is impacting site monitoring wells.

A Piper diagram was constructed using the concentration of the major cations including calcium, magnesium, sodium, and potassium, and anions including sulfate, chloride, and carbonates in groundwater samples collected from the site monitoring wells and is presented as Appendix D. Alkalinity data for the leachate was not available; therefore, the alkalinity value for the leachate was substituted with the alkalinity value from monitoring well WLF-A2-6. This alkalinity value is considered the best available option considering available data because WLF-A2-6 monitors the Ash Pond A that was excavated and provided the bulk of the contents in Landfill Area 1. While there is a slight difference in cation concentrations between WAP-7 and the leachate, the anions are very similar, which results in them plotting together on the Piper plot. The Piper plot shows that the leachate does not have a distinct geochemical signature when compared to the downgradient monitoring wells, and neither supports nor disputes the findings of this ASD.

While the results of the geochemical evaluations by themselves cannot conclusively eliminate Landfill Area 1 as a source of boron and chloride, the other lines of evidence including the modern landfill design, and landfill inspection results, historical concentrations, hydrogeological evaluation, and

statistical evaluation indicate that the groundwater historically impacted by the Unit 2 Slurry Pond is the alternate source for the Appendix III SSIs detected, and that the Class 3 Landfill Area 1 is not the source.

2.7 STATISTICAL EVALUATION

2.7.1 Intrawell Statistical Evaluation

Because the temporal plots show that chloride concentrations at WAP-7 were significantly higher prior to the construction of the Class 3 Landfill Area 1, an additional statistical evaluation was performed to evaluate the recent SSIs. The statistical evaluation consisted of performing additional intrawell statistical evaluation for WAP-7, reviewing the interwell statistical analysis of Appendix IV constituents performed for the Unit 2 Slurry Pond, and constructing boxplots and for the downgradient monitoring wells.

The baseline sampling schedule was completed within three months due to the operating requirements of Landfill Area 1; therefore, the baseline dataset does not fully capture temporal variability of background water quality conditions. Additional intrawell statistical analyses were run for WAP-7 using a longer background period that captured the variability of background conditions of boron and chloride for groundwater known to be affected by the Unit 2 Slurry Pond.

Two additional intrawell statistical analyses were performed for chloride at WAP-7; one background set incorporated the entire historical dataset from October 1995 through August 2021; the second background set incorporated data from May 2002 through August 2021. The results of these intrawell statistical evaluations did not result in a SSI for chloride and support the premise that the February 2022 detection of chloride is within the variability of the groundwater concentrations associated with the release from the Unit 2 Slurry Pond.

One additional intrawell statistical analysis was performed for boron at WAP-7, which included the only two additional available historical data points, one from June 2013 and the other from January 2014. The results of this intrawell statistical evaluation still resulted in a SSI for boron. The result of this intrawell statistical evaluation is considered to be inconclusive, because the historical dataset for boron is not robust and the temporal variation is not fully represented. Boron and chloride have a strong bivariate correlation, and the boron concentrations for other wells upgradient of WAP-7 indicate that historical concentrations for boron may have been higher as seen for the historical chloride concentrations at WAP-7. The hydrogeologic evaluation supports that the increasing boron concentrations are from a pre-existing plume of elevated boron migrating through the groundwater system.

2.7.2 Review of Unit 2 Slurry Pond Interwell Statistical Results

The Unit 2 Slurry Pond is currently in assessment monitoring using interwell statistical analysis for Appendix IV constituents, where the downgradient monitoring wells are compared to the background well WBW-A1-1. As previously described, the downgradient wells for the Unit 2 Slurry Pond are the same wells used to monitor the Class 3 Landfill Area 1. The results of the assessment monitoring interwell statistical analysis show no SSLs of Appendix IV parameters when compared to the background monitoring well WBW-A1-1.

2.7.3 Boxplots

A boxplot is a method for graphical analysis of numerical data through their quartiles. Boxplots, which are sometimes called box-and-whisker plots, are a method to evaluate similarities or differences between groups of data that have been measured for the same constituent. A boxplot is constructed using the interquartile range (25th percentile and 75th percentile) with the median (50th percentile) shown as a horizontal bar within the box. Whiskers are also displayed and extend to 1.5 times the interquartile range. Data falling outside of the whiskers are considered outliers of a group or location and are plotted as individual points beyond the whiskers on the boxplot. Datasets are considered similar if the boxes overlap. If the boxes do not overlap (i.e., the box representing one well is completely above or below the box representing another well) then there is a difference between the data of the two groups or locations. Boxplots were created for boron and chloride for downgradient wells monitoring the Landfill Area 1 and Unit 2 Slurry Pond (**Appendix E**).

The boron boxplots were constructed using the available June 2018 through August 2022 data for downgradient monitoring wells WLF-A-1 through WLF-A1-5, as well as available boron data for WAP-7 from 2013 and 2014. The boron boxplots show that the February 2022 concentration of boron at WAP-7 is within the quartile ranges of boron for WLF-A1-1 and WLF-A1-5, and that the June and August 2022 concentrations of boron at WAP-7 is within the 1.5 interquartile range (whisker) of boron for WLF-A1-1. The July and August 2022 boron concentrations at WAP-7 are also within the 1.5 interquartile range of WLF-A1-1. The boron boxplots show that the concentrations of boron at WAP-7 are within the representative range of concentrations for that constituent at the site.

The chloride boxplots were constructed using the available June 2018 through August 2022 data for downgradient monitoring wells WLF-A-1 through WLF-A1-5, as well as available chloride data for WAP-7 from 1995 through 2017. Two chloride boxplots were constructed. Each chloride boxplot presents a different range of historical values for WAP-7 (February 2002 through August 2022, and 1995 through August 2022). The chloride boxplots show that the February, July, and August 2022 chloride concentrations for WAP-7 are within the interquartile range of chloride for WAP-7 for the 1995-2022 dataset, and within the interquartile range of chloride for WLF-A1-1 for the 2002-2022 dataset. The chloride boxplots show that the concentrations of boron at WAP-7 are within the representative range of concentrations for that constituent at the site.

3. Findings and Conclusions

In the original ASD for Landfill Area 1, Haley & Aldrich concluded that the Unit 2 Slurry Pond is the alternate source for the Appendix III SSIs detected downgradient of the new Class 3 Landfill Area 1. In this supplemental ASD, Haley & Aldrich concludes that the residual constituents in soil and groundwater beneath the excavated Unit 2 Slurry Pond remains the alternate source for the Appendix III SSIs detected downgradient of the new Class 3 Landfill Area 1, and for the reasons outlined in this ASD, that Landfill Area 1 is not a contributing source. Consistent with 40 CFR §257.94(e)(2), this written successful demonstration, which includes obtaining a certification from a qualified professional engineer, has been completed within 90 days of detecting a SSI above background levels. As a result, and consistent with 40 CFR §257.94(e)(2), the Class 3 Landfill Area 1 at the WGS will remain in detection monitoring.

1. An alternative source exists.

Fluoride, boron, and chloride: Fluoride, boron, and chloride are known to exist in areas of the remaining soil after excavation of the Unit 2 Slurry Pond and prior to construction of Landfill Area 1. The Unit 2 Slurry Pond exists within the footprint of Landfill Area 1. The Unit 2 Slurry Pond was constructed in 1977 and was inactive for many years prior to the excavation and subsequent construction of Landfill Area 1.

2. A hydraulic connection exists between the alternative source and the groundwater well with the significant increase.

Fluoride, boron, and chloride: The monitoring well network used to monitor shallow groundwater for the Class 3 Landfill Area 1 also monitors the Unit 2 Slurry Pond, and the monitoring wells installed in 2018 are screened in the same hydrostratigraphic unit as the existing wells that have historically monitored groundwater for the Unit 2 Slurry Pond (WAP-7) since 1995. The Unit 2 Slurry Pond was hydraulically connected to groundwater, as evidenced by the detection of Appendix III constituents, whereas Landfill Area 1 was purposefully constructed to not be hydraulically connected to groundwater.

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.

Fluoride: Downgradient wells WLF-A1-2 and WLF-A1-5 showed comparable concentrations of fluoride in 2018 prior to the placement of CCR in Landfill Area 1, with results also slightly above the reporting limit and ranging from 0.110 mg/L to 0.140 mg/L. As mentioned previously, fluoride is known to exist in areas of the remaining soil after excavation of the Unit 2 Slurry Pond and prior to construction of Landfill Area 1.

Boron and chloride: The Unit 2 Slurry Pond was constructed in 1977 and was inactive for many years prior to excavation and subsequent construction of Landfill Area 1 in the same footprint of the Unit 2 Slurry Pond. While an inactive unit, the Unit 2 Slurry Pond was not capped and was capable of impounding water resulting in hydraulic loading. Potentiometric maps show that groundwater has consistently flowed in a radial pattern away from the unit to the south, southwest, or southeast across Landfill Area 1 and the Unit 2 Slurry Pond. The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. The 2018 concentrations of boron and chloride at WLF-A1-1 are similar to 2022 concentrations in WAP-

7. Isoconcentration maps show that the plumes are migrating in the direction of groundwater flow toward the well WAP-7.

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.

Fluoride: This was the first detection of fluoride at WLF-A1-3 above the reporting limit of 0.1 mg/L, and the measured concentration of 0.15 mg/L is well below the GWPS of 4 mg/L. The slightly elevated turbidity in the sample represents a potential source of error contributing to the initial detection of fluoride that resulted in a SSI.

Boron and chloride: The June 2018 isoconcentration maps show a boron and chloride plume in the shallow groundwater before waste was placed in Landfill Area 1. Boron and chloride at concentrations similar to WAP-7 concentrations were observed in WLF-A1-1 in 2018. Boron is notably decreasing at WLF-A1-1, while an upward trend of boron has been observed at WAP-7 as the boron and chloride plume migrate through the shallow groundwater system. Additionally, the concentrations of boron and chloride in WLF-A1-1 in 2018 are higher than concentrations of boron and chloride currently observed in the Landfill Area 1 leachate. This strongly indicates that the groundwater affected by the Unit 2 Slurry Pond is the source of boron and chloride and not Landfill Area 1. Statistical evaluations also show that the current concentrations of boron and chloride are within the range of representative groundwater concentrations for wells at the site, including concentrations prior to the construction of Landfill Area 1.

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 site hydrogeologic conditions.

Fluoride, boron, and chloride: The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. Subsequent isoconcentration maps demonstrate how that the plumes are migrating to the south in the direction of groundwater flow. The distance between the southern edge of the Unit 2 Slurry Pond and well WAP-7, which monitors the southern boundary of both Landfill Area 1 and the Unit 2 Slurry Pond, is over 50 feet on the outer edge of the landfill access road. Based on the location of WAP-7, the groundwater flow rate, and the location of the CCR in Landfill Area 1, it is unlikely that a release directly from the landfill would have culminated in the monitoring area of the well during the first four years of landfill operations. The isoconcentration maps show that fluoride detections are sporadic near the reporting limit of 0.1 mg/L.

Fluoride: One sample was collected from the Landfill Area 1 leachate discharge on September 15, 2022, and the sample was non-detect (<0.1 mg/L) for fluoride. This indicates that Landfill Area 1 is not the source of fluoride.

Boron: Leachate samples collected by Santee Cooper on October 2, 2020 were analyzed for several metals including boron. The boron concentration was 1,530 µg/L, which at that time was higher than concentrations in WAP-7 but lower than the concentrations in WLF-A1-1 (2,400 µg/L). Boron concentrations in leachate collected in 2021 and 2022 are also lower than historical concentrations of boron and chloride at WLF-A1-1 before waste was placed in Landfill Area 1. The leachate boron results show that the boron concentrations in WAP-7 would not have resulted from the leachate because the boron concentrations in leachate are not high enough to be the source.

6. Data supporting conclusions regarding the alternative source are historically consistent with hydrogeologic conditions and findings of the monitoring program.

Fluoride, boron, and chloride: The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. The potentiometric maps used for the hydrogeologic evaluation (2018 through 2022) show that groundwater has consistently flowed in a radial pattern away from the unit to the south, southwest, or southeast across Landfill Area 1 and the Unit 2 Slurry Pond. The series of isoconcentration maps for boron and chloride demonstrate how the plumes are migrating to the south in the direction of groundwater flow toward well WAP-7. Finally, based on the review of the construction and operations of the relatively new Landfill Area 1, there is no obvious evidence of release directly from the landfill.

4. References

GEL Laboratories, 2020, results for Class 3 Landfill Area 1, Contact Stormwater, report number 523189, October 16.

GeoSyntec, 2017. Federal CCR Rule 40 CFR 257.70, Winyah Class Three Landfill, Certification for Design of Composite Liner and Leachate Collection and Removal System. Scott M. Graves, South Carolina P.E. License Number 33535.

GeoSyntec, 2018. Location Restrictions Compliance Demonstration, Landfill Area 1, Winyah Generating Station, Georgetown, South Carolina.

Geosyntec, 2021. Run-On and Run-OF Control System Plan Periodic Update for CCR Landfill Area 1, Rev.1, Winyah Generating Station, Georgetown, South Carolina, November.

Haley & Aldrich, 2019. Alternate Source Demonstration Memorandum, Winyah Generating Station, Class 3 Landfill, Georgetown, South Carolina.

Santee Cooper, 2018. Federal CCR Rule 40 CFR 257.70(f), Winyah Class Three Landfill, Certification for Construction of Composite Liner and Leachate Collection and Removal System. Tom L. Crawford, South Carolina P.E. License Number 30341.

Santee Cooper, 2019, Coal Combustion Residual Class 3 Landfill Inspection – Winyah Generating Station, Georgetown, SC, October 14.

Santee Cooper, 2020, Coal Combustion Class 3 Landfill Inspection – Winyah Generating Station, Georgetown, SC, October 15.

Santee Cooper, 2021, Coal Combustion Class 3 Landfill Inspection – Winyah Generating Station, Georgetown, SC, October 12.

United States Environmental Protection Agency (USEPA), 1996, *Low-Flow (Minimal Drawdown) Ground-water Sampling Procedures*, Robert W. Puls, Michael J. Barcelona, EPA/540/S-95/504, Office of Solid Waste and Emergency Response.

Uppin, Marge and Karro, Enn, 2013, Determination of boron and fluoride sources in groundwater: batch dissolution of carbonate rocks in water.

TABLES

TABLE 1 - SOIL ANALYTICAL RESULTS



Analytical Services

Sample ID	Location Code	Description	Sample Date	TARGETS																											
				Aluminum	Ammonia-N	Arsenic	Barium	Boron	Cadmium	Calcium	Chloride	Cobalt	Fluoride	Iron	Lead	Magnesium	Manganese	Nickel	Phosphorus	Potassium	Selenium	Silica	Sodium	Strontium	Sulfate	Sulfide	Sulfite	Sulfur	Titanium		
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
SM646 6010D	EPA 350.1	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	SM646 9056A	SM646 6010D	SM646 6010D	SM646 9056A	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	EPA 365.4	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010C	SM646 6010D	SM646 6010D	SM646 9056A	EPA 9034	SM646 6010D	SM646 6010D	SM646 6010D				
AD81662	WGS_CCP	Discrete - 1	5/15/17	3020	31.4	< 1.13	567	28.90	< 0.226	3570	7.89	< 0.226	15.3	357	3.1	109	13.4	1.24	51.7	72.2	6.84	1930	< 56.4	18.9	1750	< 27.9	< 100	1190	205		
AD81663	WGS_CCP	Discrete - 2	5/15/17	7270	51.1	< 0.993	10.5	< 9.96	< 0.199	9210	68	0.519	3.63	1380	5.19	209	10.7	3.4	21	98.6	< 0.993	3680	< 49.6	11.5	11900	< 25.7	< 100	7330	83.8		
AD81664	WGS_CCP	Discrete - 3	5/15/17	5410	33.9	< 1.23	9.23	13.60	< 0.247	5090	305	0.372	< 1.28	455	4.46	84.9	10.8	1.63	172	< 74	1.34	1380	< 61.6	14.8	13500	< 30.5	< 100	10300	76.7		
AD81665	WGS_CCP	Discrete - 4	5/15/17	2500	22.2	< 1.01	3.60	12.40	< 0.202	7330	3.18	0.241	9.86	337	2.7	78.5	16.9	1.2	39.5	< 60.7	6.48	1320	< 50.6	14.3	6600	< 25.4	< 100	5550	229		
AD81666	WGS_CCP	Discrete - 5	5/15/17	4640	11.6	< 1.23	17.90	< 12.20	< 0.246	824	33.5	0.441	3.32	1500	2.96	181	14.8	1.82	17.6	82.4	< 1.23	3320	< 61.4	3.71	1260	< 32.3	< 100	498	160		
AD81667	WGS_CCP	Discrete - 6	5/15/17	2210	27	1.04	3.73	< 9.70	< 0.199	2450	76.7	0.242	1.39	231	2.46	48.3	7.73	0.747	70.7	< 59.8	< 0.997	410	< 49.9	6.46	6290	< 26.1	< 100	2960	99.8		
AD81668	WGS_CCP	Discrete - 7	5/15/17	2590	16.6	< 1.08	1.55	< 10.60	< 0.216	1860	< 2.23	< 0.216	9.60	139	1.85	27.8	5.88	0.822	95.5	< 64.9	1.22	578	< 54.1	7.65	568	< 29.2	< 100	484	140		
AD81669	WGS_CCP	Discrete - 8	5/15/17	5370	61.9	< 0.95	7.49	< 9.71	< 0.189	8910	60.2	0.367	2.05	886	3.62	175	13.5	2.49	42.7	107	< 0.947	2100	< 47.3	13.2	12900	< 27.3	< 100	9310	137		
AD81670	WGS_CCP	Discrete - 9	5/15/17	2000	8.36	< 1.10	1.67	20.70	< 0.220	1640	4.65	< 0.22	20.40	140	2.72	21.7	10.3	0.689	34.6	< 66	< 1.1	891	< 55	6.2	404	< 28	< 100	200	277		
AD81671	WGS_CCP	Discrete - 10	5/15/17	3210	19.5	< 1.08	3.82	19.70	< 0.216	8190	5.41	0.312	13.20	543	3.03	105	19.4	1.42	46.7	76	3.5	2090	< 53.9	10.7	4170	< 28.8	< 100	1850	292		
AD81672	WGS_CCP	Discrete - 11	5/15/17	853	13.4	< 1.04	2.11	< 10.40	< 0.207	1180	15.6	< 2.07	30.10	81.8	0.916	8.92	7.81	0.539	22.7	< 62.1	< 1.04	247	< 51.8	1.95	1150	< 28.5	< 100	495	103		
AD81673	WGS_CCP	Discrete - 12	5/15/17	1630	7.47	< 1.07	2.95	< 10.90	< 0.213	295	13.3	0.42	< 3.66	935	7.32	106	27.9	1.26	56.6	< 63.9	1.19	1700	< 53.3	1.27	299	< 30.9	< 100	169	1380		
AD81674	WGS_CCP	Discrete - 13	5/15/17	2630	14.6	3.21	13.10	14.40	< 0.235	27800	< 7.18	1.81	26.50	2080	2.63	875	99.5	5.5	159	346	6.52	1200	< 56.6	26.7	20000	< 26.7	< 100	2890	158		
AD81675	WGS_CCP	Discrete - 14	5/15/17	1870	17.4	< 1.05	1.34	< 11.10	< 0.209	466	18.1	< 0.209	< 4.00	21.5	2.7	< 6.28	1.99	0.488	19.3	< 62.8	< 1.05	82.1	< 52.3	1.03	295	< 30.3	< 100	573	43		
			Mean	3229	23.46	1.23	6.08	13.88	0.22	5626.79	44.35	0.55	10.31	649.02	3.26	145.46	18.62	1.66	61.38	92.60	2.46	1494.86	53.99	9.88	5789.00	28.40	100.00	3128.50	241.74		
AD81676	WGS_CCP	WGS U2 1-ISM-1	5/15/17	3900	19.1	1.76	11.20	< 10.90	< 0.216	12300	46.2	0.923	27.60	1270	2.75	263	49.4	2.64	55.3	155	3.3	2520	< 53.9	17	14300	< 27.8	< 100	9580	143		
AD81677	WGS_CCP	WGS U2 1-ISM-2	5/15/17	4050	23.6	2.68	18.50	< 10.80	< 0.228	25100	49.7	1.39	29.60	1620	3.19	426	79.5	4.28	60.5	250	5.09	2880	< 56.9	26.5	16300	< 27.4	< 100	13800	116		
AD81678	WGS_CCP	WGS U2 1-ISM-3	5/15/17	5080	25.2	1.98	12.70	13.90	< 0.259	15600	132	1.03	27.50	1770	3.41	263	28.1	2.68	44.3	161	3.1	2700	< 64.8	14.4	16400	< 34.7	< 100	5020	185		

3 Composite Samples - Decision Unit 1

DISCRETE SAMPLES (1 per 2 acre decision unit)

TABLE 1 - SOIL ANALYTICAL RESULTS



Analytical Services

				TARGETS																										
Sample ID	Location Code	Description	Sample Date	Aluminum	Ammonia-N	Arsenic	Barium	Boron	Cadmium	Calcium	Chloride	Cobalt	Fluoride	Iron	Lead	Magnesium	Manganese	Nickel	Phosphorus	Potassium	Selenium	Silica	Sodium	Strontium	Sulfate	Sulfide	Sulfite	Sulfur	Titanium	
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
				SM646 6010D	EPA 360.1	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	SM646 9056A	SM646 6010D	SM646 9056A	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	SM646 6010D	EPA 365.4	SM646 6010D	SM646 6010D	SM646 6010C	SM646 6010D	SM646 6010D	SM646 9056A	EPA 9034	SM646 6010D	SM646 6010D	SM646 6010D	
3 Composite Samples - Decision Unit 7	AD81694	WGS_CCP	WGS U27-ISM1	5/15/17	1880	13.9	< 1.09	5.38	< 11.40	< 0.230	14900	35.60	0.46	15.80	577.00	1.80	119.00	19.40	1.19	53.40	71.20	1.89	1370.00	< 54.70	11.60	13000.00	< 30.10	< 100.00	5060.00	131.00
	AD81695	WGS_CCP	WGS U27-ISM2	5/15/17	1820	18.8	< 0.972	4.39	< 10.60	< 0.198	12300	42.80	0.79	17.40	425.00	1.81	91.90	17.60	1.09	54.10	< 58.30	1.77	1270.00	< 48.60	13.20	14200.00	< 25.00	150.00	6530.00	189.00
	AD81696	WGS_CCP	WGS U27-ISM3	5/15/17	1850	27.1	< 1.04	4.37	< 11.40	< 0.213	9910	38.40	0.68	16.10	537.00	1.81	98.30	22.00	1.12	47.40	< 62.60	1.80	1620.00	< 52.20	27.70	15900.00	< 27.50	< 100.00	10700.00	166.00
3 Composite Samples - Decision Unit 8	AD81697	WGS_CCP	WGS U28-ISM1	5/15/17	1420	35.8	< 1.12	5.19	< 10.40	< 0.213	14100	23.10	0.80	19.40	519.00	1.43	105.00	29.70	1.23	58.70	68.00	1.60	1260.00	< 56.10	20.40	20600.00	< 27.60	< 100.00	8870.00	119.00
	AD81698	WGS_CCP	WGS U28-ISM2	5/15/17	1800	33.9	1.79	6.71	< 10.50	< 0.216	22600	13.00	0.59	13.50	629.00	1.75	171.00	25.30	1.56	62.20	112.00	2.22	674.00	< 51.90	30.70	18900.00	< 28.30	< 100.00	15500.00	110.00
	AD81699	WGS_CCP	WGS U28-ISM3	5/15/17	1040	24.7	< 1.03	2.21	< 10.40	< 0.202	3950	18.40	0.30	10.30	198.00	1.23	48.00	10.20	0.45	44.90	< 61.60	< 1.03	2010.00	< 51.40	12.90	8770.00	< 28.80	240.00	3720.00	119.00
3 Composite Samples - Decision Unit 9	AD81700	WGS_CCP	WGS U29-ISM1	5/15/17	2500	21	1.21	7.48	< 10.40	< 0.220	16800	17.20	0.52	16.90	646.00	2.43	136.00	30.60	1.57	65.30	87.20	1.56	1380.00	< 55.00	28.00	13700.00	< 28.90	< 100.00	20600.00	154.00
	AD81701	WGS_CCP	WGS U29-ISM2	5/15/17	1410	16.2	1.39	5.32	< 10.10	< 0.205	11200	20.80	0.35	12.60	496.00	1.61	104.00	20.30	1.08	65.50	67.90	1.32	774.00	< 51.20	11.80	8650.00	< 27.00	180.00	6320.00	165.00
	AD81702	WGS_CCP	WGS U29-ISM3	5/15/17	2020	17.2	1.11	6.76	< 10.60	< 0.214	15400	23.00	0.46	14.80	534.00	2.31	144.00	33.60	1.46	77.90	79.40	2.88	1300.00	< 53.50	29.10	13400.00	< 25.60	< 100.00	20900.00	169.00
3 Composite Samples - Decision Unit 10	AD81703	WGS_CCP	WGS U2 10-ISM1	5/15/17	2730	41.3	1.57	8.39	< 10.80	< 0.209	34700	17.30	1.01	14.80	1140.00	3.53	279.00	44.30	2.92	59.90	144.00	2.77	1290.00	< 52.20	23.60	12400.00	< 27.60	< 100.00	16100.00	267.00
	AD81704	WGS_CCP	WGS U2 10-ISM2	5/15/17	2400	22.3	1.54	8.77	< 10.10	< 0.091	40000	16.90	0.86	17.50	1050.00	2.54	334.00	46.20	2.60	60.30	145.00	3.49	1180.00	< 53.00	25.60	13000.00	< 30.00	< 100.00	19800.00	158.00
	AD81705	WGS_CCP	WGS U2 10-ISM3	5/15/17	1620	10.3	1.57	10.0	< 10.30	< 0.223	23700	15.60	0.81	25.40	923.00	2.91	252.00	38.60	2.31	64.90	144.00	2.62	1280.00	< 55.80	30.80	14400.00	< 30.90	120.00	21500.00	149.00
3 Composite Samples - Decision Unit 11	AD81706	WGS_CCP	WGS U2 11-ISM1	5/15/17	1610	19.2	1.48	8.37	< 10.60	< 0.224	33700	21.00	0.84	21.50	1080.00	2.57	281.00	29.00	2.45	97.10	143.00	2.07	2530.00	< 55.90	61.50	16400.00	< 29.70	< 100.00	52800.00	133.00
	AD81707	WGS_CCP	WGS U2 11-ISM2	5/15/17	1610	24.2	< 1.05	4.76	< 10.60	< 0.210	12800	7.81	0.44	15.90	582.00	2.71	138.00	12.30	1.40	68.30	75.40	< 1.07	1120.00	< 52.50	8.83	8610.00	< 29.50	< 100.00	3950.00	136.00
	AD81708	WGS_CCP	WGS U2 11-ISM3	5/15/17	1790	26.6	< 1.13	6.7	< 11.40	< 0.225	8690	15.00	0.68	23.30	729.00	2.80	131.00	14.10	1.99	111.00	81.90	< 1.17	1140.00	< 56.40	18.80	6650.00	< 31.90	< 100.00	8080.00	141.00

TABLE 2
Additional Intrawell Statistical Analysis Summary
Winyah Class 3 Landfill Area 1
Prepared: October 7, 2022







Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	CCR MCL/RSL	Report Result Unit	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February / March 2022 Concentration (mg/L)	Detect?	Intra-well Analysis		SSI
												Background Limit (Upper Prediction Limit) mg/L	Background Limit (Upper Prediction Limit) ug/L	
CCR Appendix-III: Chloride (mg/L) (Background Value Date Range: October 1995 - August 2021)														
WAP-07	16/16	0%	-	NA	mg/L	Yes	No	Decrease	Non-parametric	97.3	Y	1712.00	1712000	N
CCR Appendix-III: Chloride (mg/L) (Background Value Date Range: May 2002 - August 2021)														
WAP-07	41/41	0%	-	NA	mg/L	Yes	Yes	Decrease	Non-parametric	97.3	Y	376.00	376000	N
CCR Appendix-III: Boron, Total (mg/L) (Background Value Date Range: June 2013 - August 2021)														
WAP-07	13/13	0%	-	NA	mg/L	No	No	Stable	Normal	2.37	Y	2.18	2184.65	Y

FIGURES

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_08_00MB_WINYAH_POTENTIOMETRIC_MAPS_2021.mxd — USER: khaskins — LAST SAVED: 10/21/2022 3:46:16 PM



LEGEND

-  BACKGROUND WELL
-  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:

$$v = \frac{K \Delta h}{n_e \Delta L}$$
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 HORIZONTAL HYDRAULIC FLOW PATH)
 ne = EFFECTIVE POROSITY
4. K = 2.3 FEET PER DAY (ft/day)
5. ne = 0.30
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM FEBRUARY 24, 2021 THROUGH MARCH 2, 2021.
7. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 FEBRUARY-MARCH 2021**







OCTOBER 2022

FIGURE 1A

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_008_00MB_WINYAH_POTENTIOMETRIC_MAPS_2021.mxd — USER: khaskins — LAST SAVED: 10/21/2022 3:46:16 PM



LEGEND

-  BACKGROUND WELL
-  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:

$$v = \frac{K \Delta h}{n_e \Delta L}$$
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 HORIZONTAL HYDRAULIC FLOW PATH)
 ne = EFFECTIVE POROSITY
4. K = 2.3 FEET PER DAY (ft/day)
5. ne = 0.30
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM AUGUST 5, 2021 THROUGH AUGUST 11, 2021.
7. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 AUGUST 2021**







OCTOBER 2022

FIGURE 1B

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_008_00MB_WINYAH_POTENTIOMETRIC_MAPS_2021.mxd — USER: khaskins — LAST SAVED: 10/21/2022 3:57:57 PM



LEGEND

-  BACKGROUND WELL
-  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:

$$v = \frac{K \Delta h}{n_e \Delta L}$$
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 HORIZONTAL HYDRAULIC FLOW PATH)
 ne = EFFECTIVE POROSITY
4. K = 2.3 FEET PER DAY (ft/day)
5. ne = 0.30
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER ON FEBRUARY 15, 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 0.01 FT/DAY.
9. AERIAL IMAGERY SOURCE: ESRI



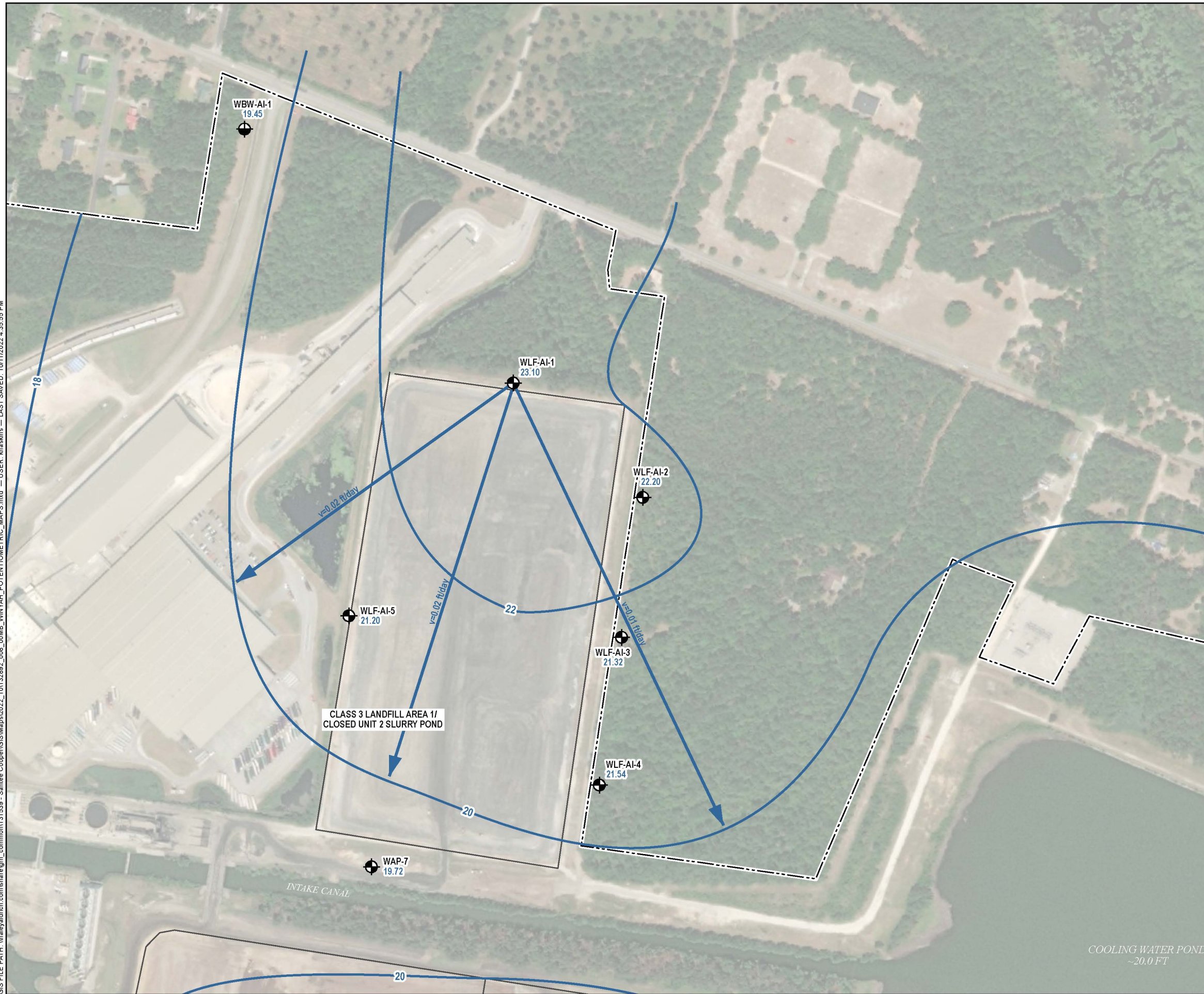
SANTEE COOPER
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**POTENTIOMETRIC MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 FEBRUARY 15-16 2022**







OCTOBER 2022

FIGURE 1C

GIS FILE PATH: \\haleyaldrich.com\hara\gm_common\1131539 - Santee Cooper\GIS\Maps\2022_10112022_008_00MB_WINYAH_POTENTIOMETRIC_MAPS.mxd — USER: khastkins — LAST SAVED: 10/11/2022 4:35:55 PM



LEGEND

-  BACKGROUND WELL
-  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:

$$v = \frac{K \Delta h}{n_e \Delta L}$$
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 HORIZONTAL HYDRAULIC FLOW PATH)
 ne = EFFECTIVE POROSITY
4. K = 2.3 FEET PER DAY (ft/day)
5. ne = 0.30
6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 5 THROUGH JULY 6, 2022
7. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.02 FT/DAY.
8. AERIAL IMAGERY SOURCE: ESRI



SANTEE COOPER
 WNYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

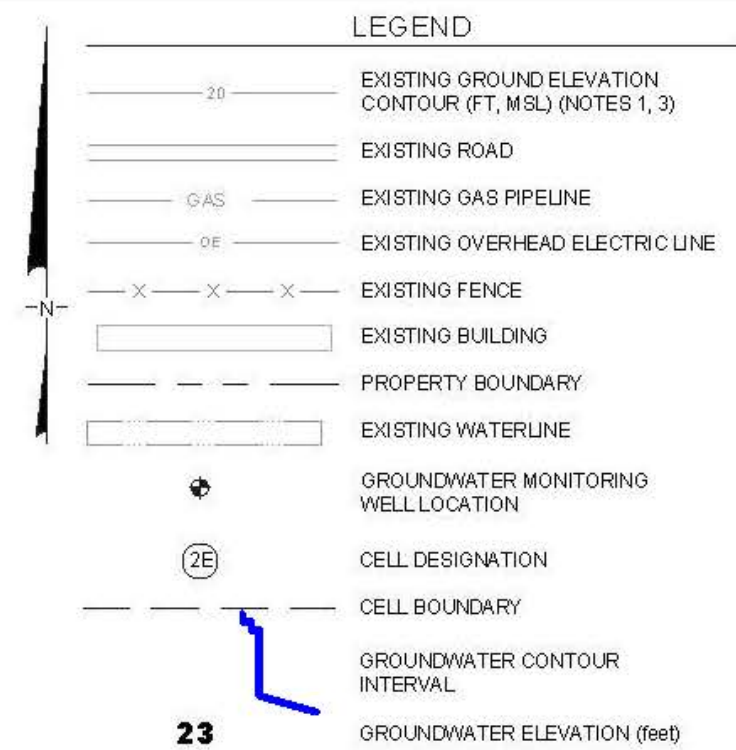
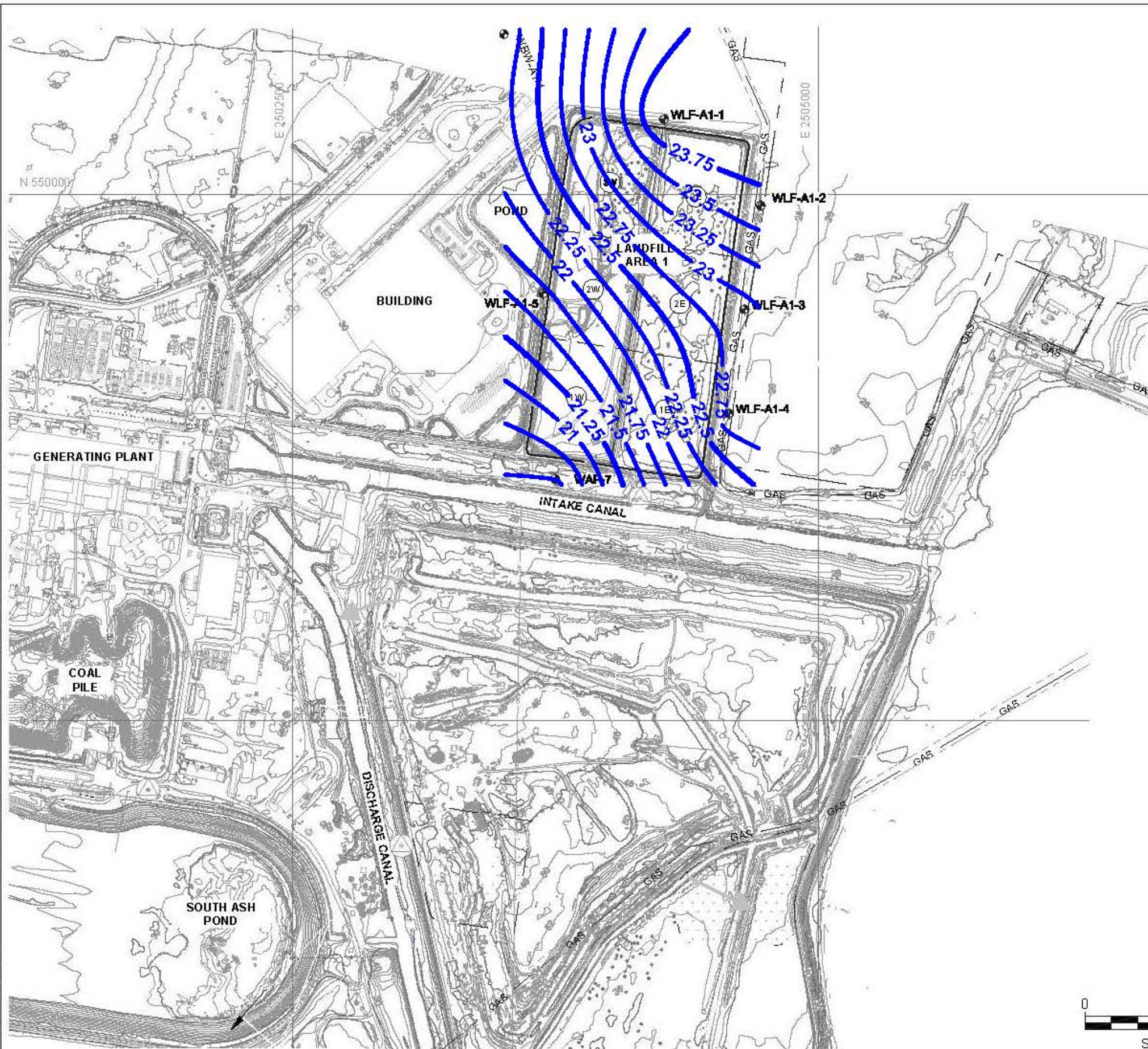
**POTENTIOMETRIC MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 JULY 5-6, 2022**

OCTOBER 2022

FIGURE 1D

COOLING WATER POND
 ~20.0 FT

M:\SANTIEE COOPER\WINYAH\0011-WINYAH HYDRO-GEO TECHNICAL-GSC5242\FIGURES\W-D-SC-585-00-FOO12-012



**Class 3 Landfill
Closed Unit 2 Slurry Pond
Groundwater Monitoring Potentiometric Map
June 2020**

Well ID	GW Elevation (Feet msl)
WBW-A1-1	22.30
WAP-7	20.20
WLF-A1-1	24.81
WLF-A1-2	24.48
WLF-A1-3	23.74
WLF-A1-4	23.82
WLF-A1-5	22.02

Water levels were collected on 6/1/20

1/13/21.MDG

GROUNDWATER MONITORING SYSTEM
CLASS 3 LANDFILL
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

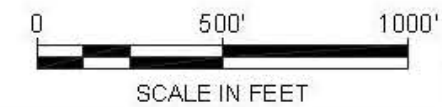
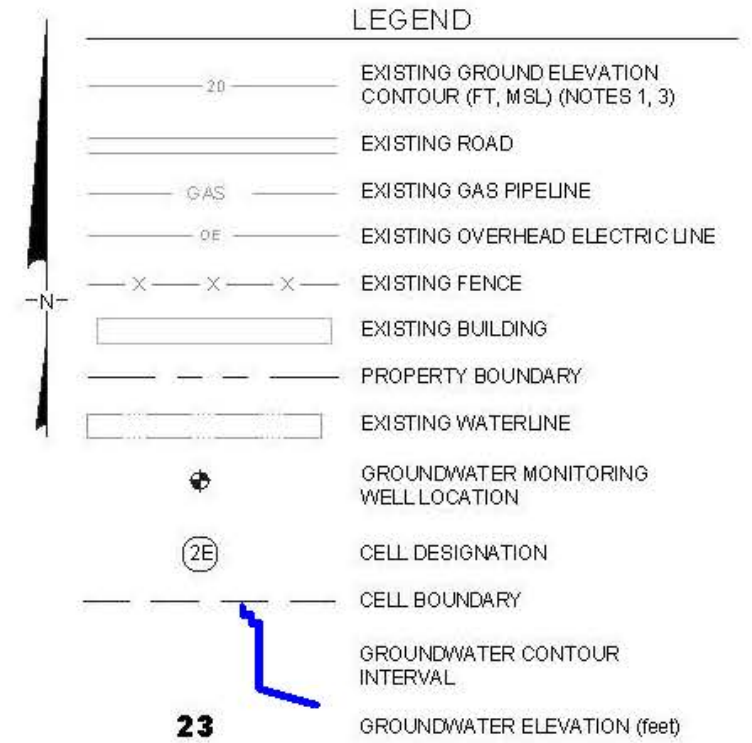
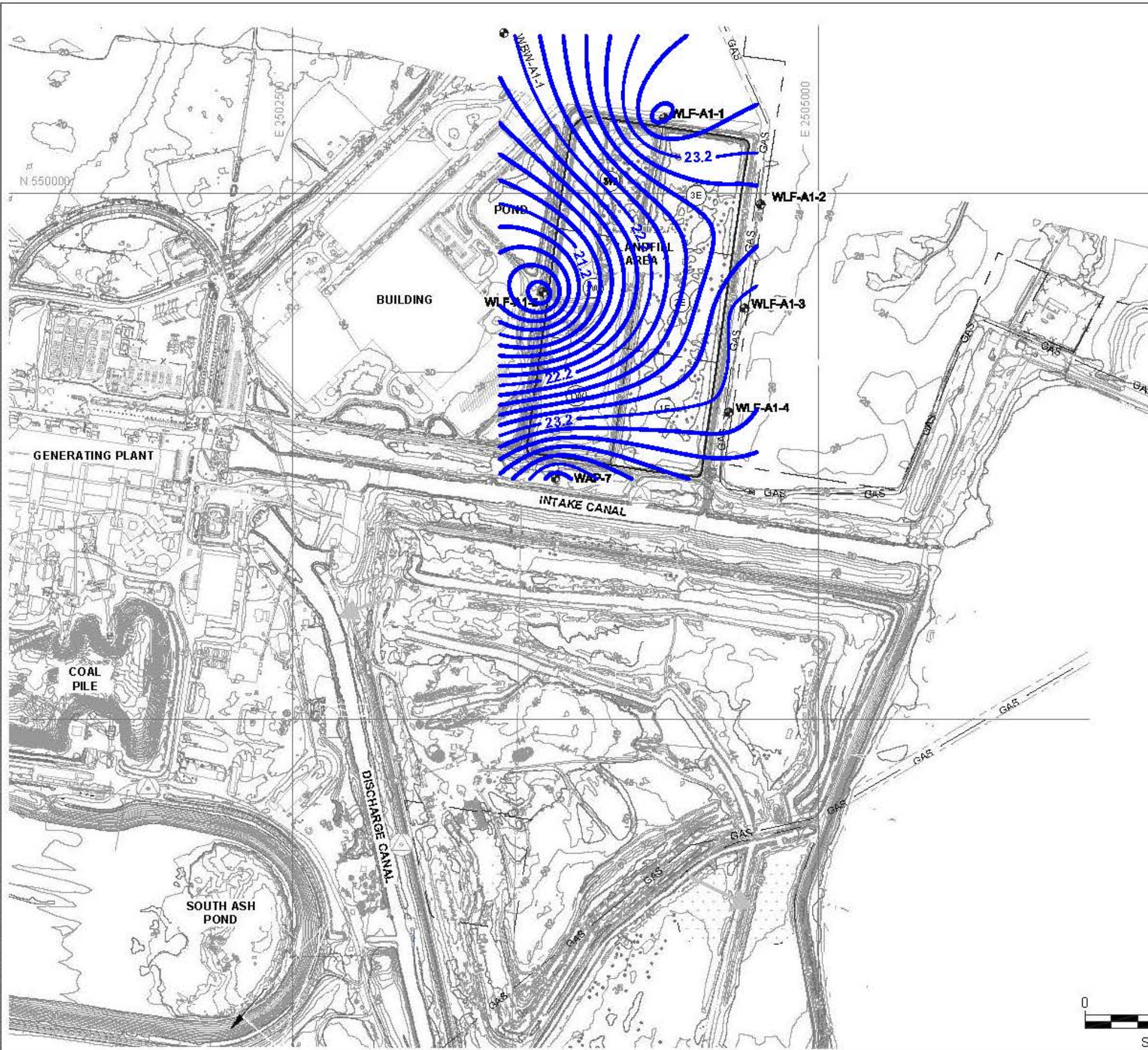


FIGURE 1

JANUARY 2019

FIGURE 1E -1

M:\SANTIEE COOPER\SANTIEE COOPER-WINYAH\001-WINYAH HYDRO-GEO TECHNICAL-GSC5242\FIGURES\W-D-SC-585-00-FOO12-012



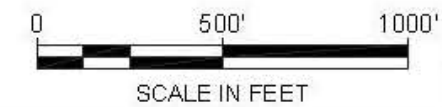
**Class 3 Landfill
Groundwater Monitoring Potentiometric Map
February 2020**

Well ID	GW Elevation (Feet msl)
WBW-A1-1	22.09
WAP-7	20.22
WLF-A1-1	24.55
WLF-A1-2	23.66
WLF-A1-3	22.86
WLF-A1-4	23.33
WLF-A1-5	23.26

Water levels were collected on 2/5-6/2020

4/7/20.MD.G

GROUNDWATER MONITORING SYSTEM
CLASS 3 LANDFILL
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

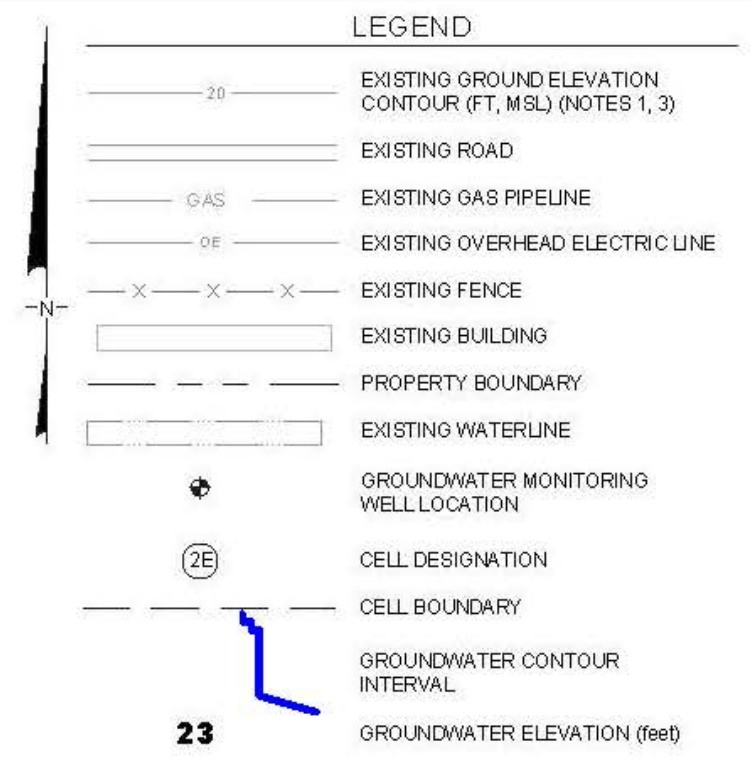


JANUARY 2019

FIGURE
1

FIGURE 1E-2

M:\SANTIEE COOPER\SANTIEE COOPER-WINYAH\001-WINYAH HYDRO-GEO TECHNICAL-GSC5242\FIGURES\W-D-SC-585-00-FOO12-012



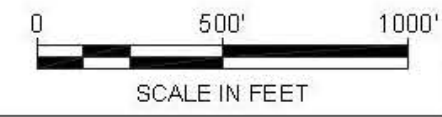
**Class 3 Landfill
Groundwater Monitoring Potentiometric Map
January 2019**

Well ID	GW Elevation (Feet msl)
WBW-A1-1	22.26
WAP-7	20.36
WLF-A1-1	24.68
WLF-A1-2	24.71
WLF-A1-3	23.68
WLF-A1-4	23.78
WLF-A1-5	21.68

Water levels were collected on 1/22/19

8/17/19.MDG

GROUNDWATER MONITORING SYSTEM
CLASS 3 LANDFILL
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

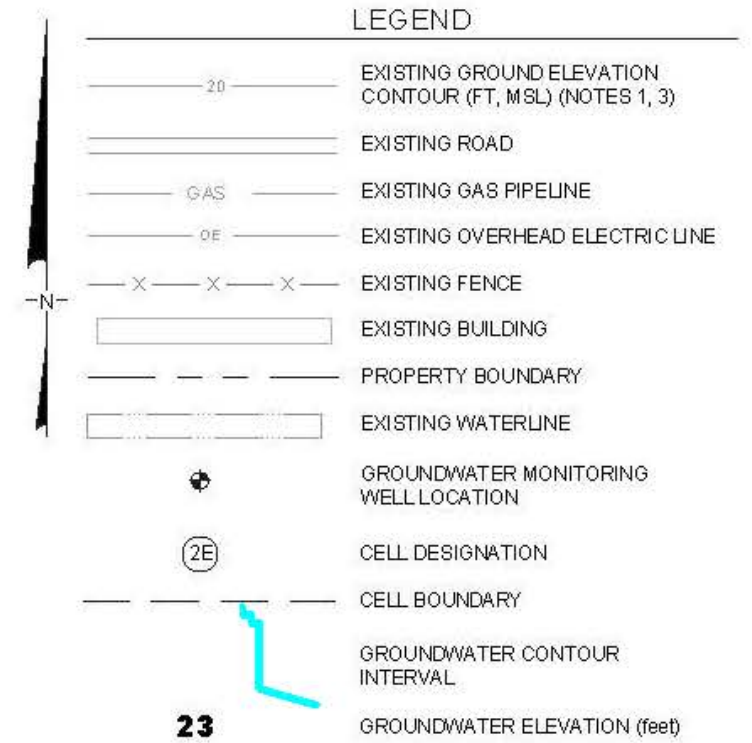


JANUARY 2019

FIGURE
1

FIGURE 1E-3

M:\SANTIEE COOPER\SANTIEE COOPER-WINYAH\0011-WINYAH HYDRO-GEO TECHNICAL-GSC5242\FIGURES\W-D-SC-585-00-FOO12-012



**Class 3 Landfill
Groundwater Monitoring Potentiometric Map
August 2018**

Well ID	GW Elevation (Feet msl)
WBW-A1-1	21.34
WAP-7	21.02
WLF-A1-1	24.56
WLF-A1-2	24.33
WLF-A1-3	23.8
WLF-A1-4	24.03
WLF-A1-5	22.68

Water levels were collected on 8/22/18

1/29/19.MDG

GROUNDWATER MONITORING SYSTEM
CLASS 3 LANDFILL
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA



FIGURE 1

JANUARY 2019

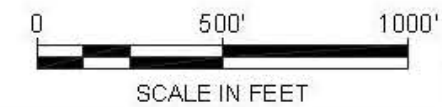


FIGURE 1E-4

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_014_00MB_WINYAH_ISOCONTOUR_MAPS.mxd - USER: kraskins - LAST SAVED: 10/12/2022 7:24:08 AM

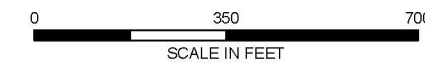


LEGEND

- BACKGROUND WELL
- CCR MONITORING WELL
- CCR UNIT BOUNDARY
- BORON (B) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MICROGRAMS PER LITER (µg/L)
- CHLORIDE (Cl) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MILLIGRAMS PER LITER (mg/L)
- FLUORIDE (F) ISOCONTOUR, WITH CONCENTRATION INDICATED IN mg/L
- PROPERTY BOUNDARY

NOTES

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



Santee Cooper
WNYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP
CLASS 3 LANDFILL AREA 1 AND
CLOSED UNIT 2 SLURRY POND
JUNE 2018**

OCTOBER 2022

FIGURE 2

COOLING WATER POND
~20.0 FT

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_014_00MB_WINYAH_ISOCONTOUR_MAPS.mxd - USER: kraskins - LAST SAVED: 10/12/2022 7:24:08 AM

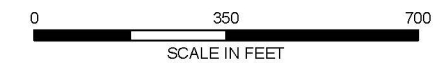


LEGEND

- BACKGROUND WELL
- CCR MONITORING WELL
- CCR UNIT BOUNDARY
- BORON (B) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MICROGRAMS PER LITER (µg/L)
- CHLORIDE (Cl) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MILLIGRAMS PER LITER (mg/L)
- PROPERTY BOUNDARY

NOTES

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



SANTEE COOPER
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP
CLASS 3 LANDFILL AREA 1 AND
CLOSED UNIT 2 SLURRY POND
FEBRUARY 2020**

OCTOBER 2022

FIGURE 3

COOLING WATER POND
~20.0 FT

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_014_00MB_WINYAH_ISOCONTOUR_MAPS.mxd - USER: khaskins - LAST SAVED: 10/12/2022 7:24:08 AM

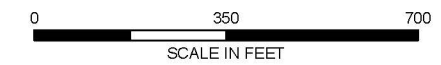


LEGEND

- BACKGROUND WELL
- CCR MONITORING WELL
- CCR UNIT BOUNDARY
- BORON (B) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MICROGRAMS PER LITER (µg/L)
- CHLORIDE (Cl) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MILLIGRAMS PER LITER (mg/L)
- FLUORIDE (F) ISOCONTOUR, WITH CONCENTRATION INDICATED IN mg/L
- PROPERTY BOUNDARY

NOTES

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



SANTEE COOPER
WNYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP
CLASS 3 LANDFILL AREA 1 AND
CLOSED UNIT 2 SLURRY POND
FEBRUARY 2022**

OCTOBER 2022

FIGURE 4

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_10132892_014_00MB_WINYAH_ISOCONTOUR_MAPS.mxd - USER: kraskins - LAST SAVED: 10/21/2022 4:21:17 PM



LEGEND

- BACKGROUND WELL
- CCR MONITORING WELL
- CCR UNIT BOUNDARY
- BORON (B) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MICROGRAMS PER LITER (µg/L)
- CHLORIDE (Cl) ISOCONTOUR, WITH CONCENTRATION INDICATED IN MILLIGRAMS PER LITER (mg/L)
- PROPERTY BOUNDARY

NOTES

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



SANTEE COOPER
 WNYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**ISOCONCENTRATION MAP
 CLASS 3 LANDFILL AREA 1 AND
 CLOSED UNIT 2 SLURRY POND
 JULY 2022**

OCTOBER 2022

FIGURE 5

COOLING WATER POND
 ~20.0 FT

APPENDIX A

**Letter from SCDHEC Approving State Closure of Unit 2 Slurry Pond
(August 2017)**



August 01, 2017

Susan W Jackson PE
SANTEE COOPER
PO BOX 2946101
MONCKS CORNER SC 29461-6101

RE: LOA-004716
SANTEE COOPER (SCPSA)
WINYAH GENERATING STATION (WGS)
UNIT 2 SLURRY POND CLOSURE
CLOSURE SAMPLING EVALUATION
NPDES #SC0022471
Georgetown County

Dear Ms. Jackson:

This Department has completed the review of the confirmatory soil sampling for the above referenced closure of the Unit 2 Slurry Pond. The facility conducted sampling in May 2017. The sampling data shows that the remaining soils in the vicinity of the excavation exceed EPA's worker number of 3 mg/kg for Arsenic and the EPA's ecological risk number of 7.5 mg/kg for Boron and 0.52 mg/kg for Selenium, it also exceed a number of background results. The entire footprint of this Unit 2 Slurry Pond will be sealed under clean backfill and the CCR landfill to be built on-site. Based on the sampling data and the final disposition of the closure area, the closure activities may continue with backfilling and final grading provided the facility implement land use control(s) for the area of the Unit 2 Slurry Pond. Specifically, Santee Cooper must comply with the following conditions:

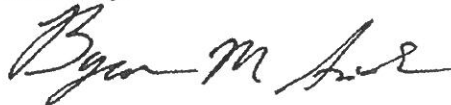
- The proposed language for the land use control(s) and the proposed method of implementation must be submitted to the Department for review and approval within sixty (60) days of receipt of this letter; and
- Documentation of the implementation of the land use control(s) must be submitted within ninety (90) days following the Department's approval of the land use control(s) language and methodology.
- Once closeout construction has begun, it shall be continuous until closeout is completed. Failure to properly proceed with the closeout or properly complete the closeout of this pond may result in enforcement action by this Agency. Closeout shall be completed by December 31, 2017. Any request for an extension shall be made in writing and approved by this office in writing. Justification of the need for the extension shall be included with the request.

LOA-004716
WINYAH GENERATING STATION (WGS)
UNIT 2 SLURRY POND CLOSURE
CLOSURE SAMPLING EVALUATION
PAGE 2

- Upon completion of closeout, the facility shall request a final inspection by the regional DHEC office. The request will include a letter from a SC Registered Professional Engineer, stating that the closeout has been completed in accordance with the approved closure plan. You may contact Shauna F Stevens of the PEE DEE REGION BEHS MYRTLE BEACH at 927 Shine Ave, Myrtle Beach, SC 29577, 843-238-4378 to set up this inspection. Final closeout will be considered accomplished only after written approval from the regional DHEC office.

If you have any questions, please contact me at 803-898-4236 or amickbm@dhec.sc.gov.

Sincerely,



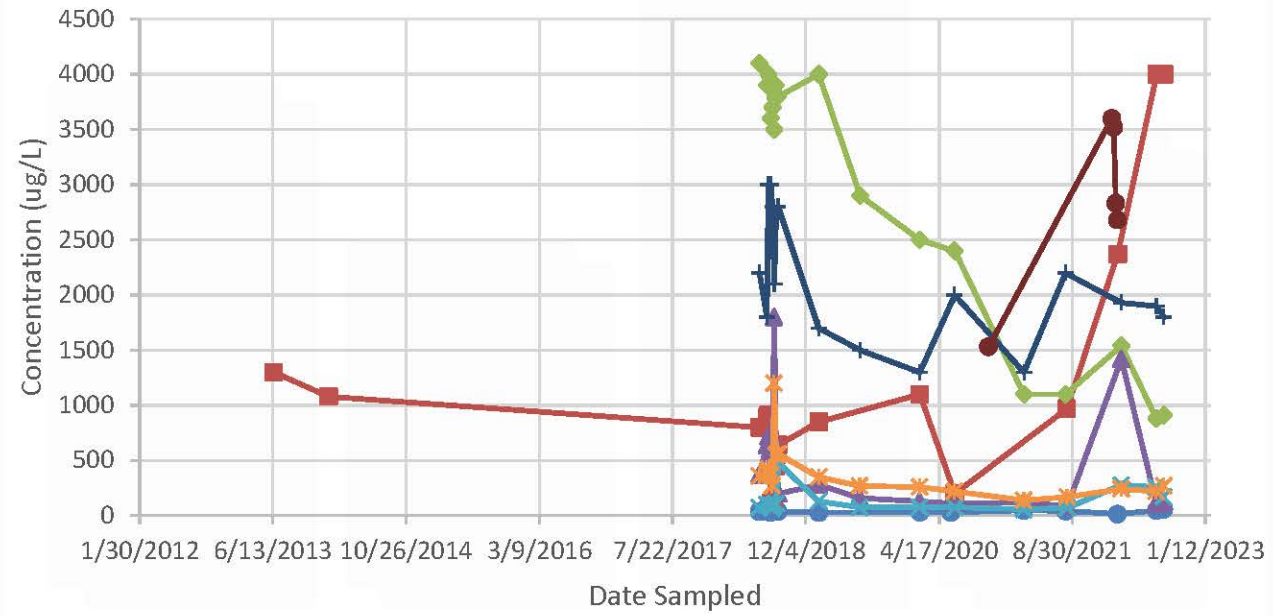
Byron M Amick
Industrial Wastewater Permitting Section
Water Facilities Permitting Division

cc via e-mail: Denise Bunte-Bisnett, Santee Cooper
Shauna F Stevens, PEE DEE REGION BEHS MYRTLE BEACH
BOW/WPC Enforcement

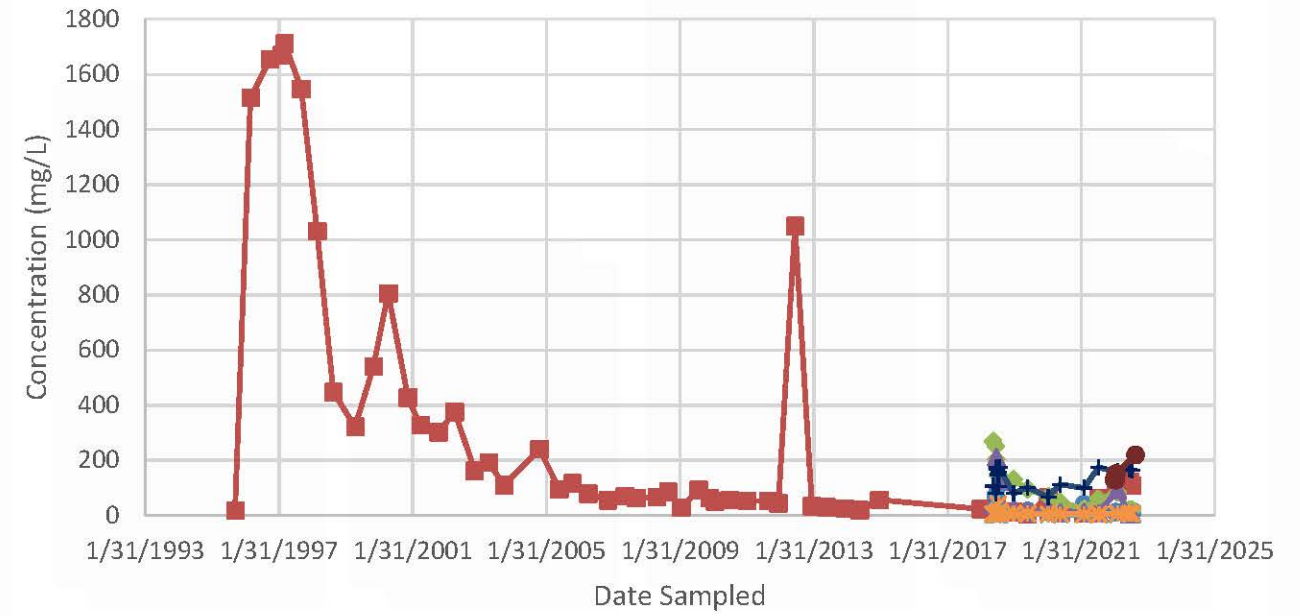
APPENDIX B

Time-Series Plots

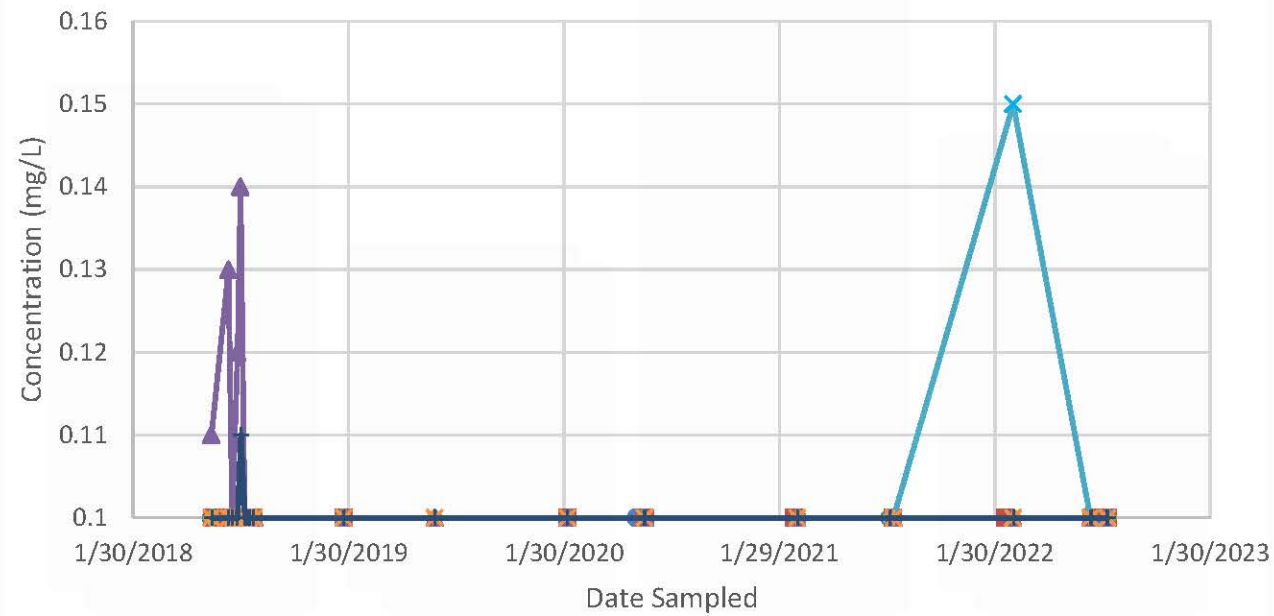
Boron Concentration vs Time



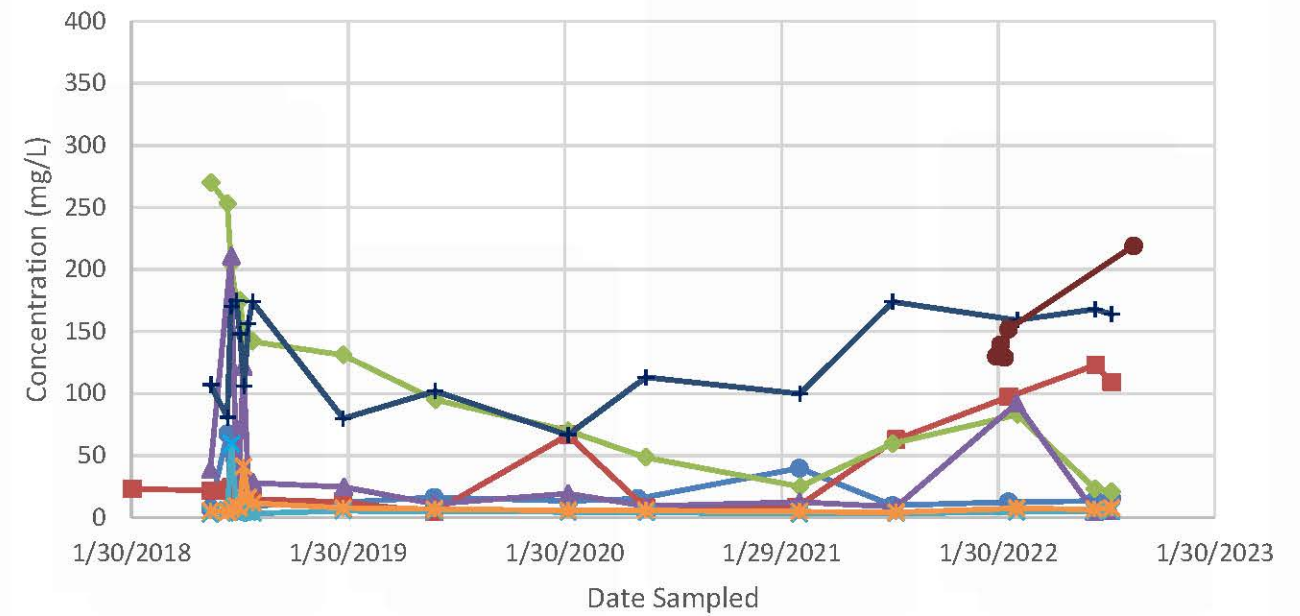
Chloride Concentration vs Time 1995-2022



Fluoride Concentration vs Time



Chloride Concentration vs Time 2018-2022



- WBW-A1-1 ■ WAP-07 ◆ WLF-A1-1 ▲ WLF-A1-2
- ✕ WLF-A1-3 ✱ WLF-A1-4 + WLF-A1-5 ● Leachate

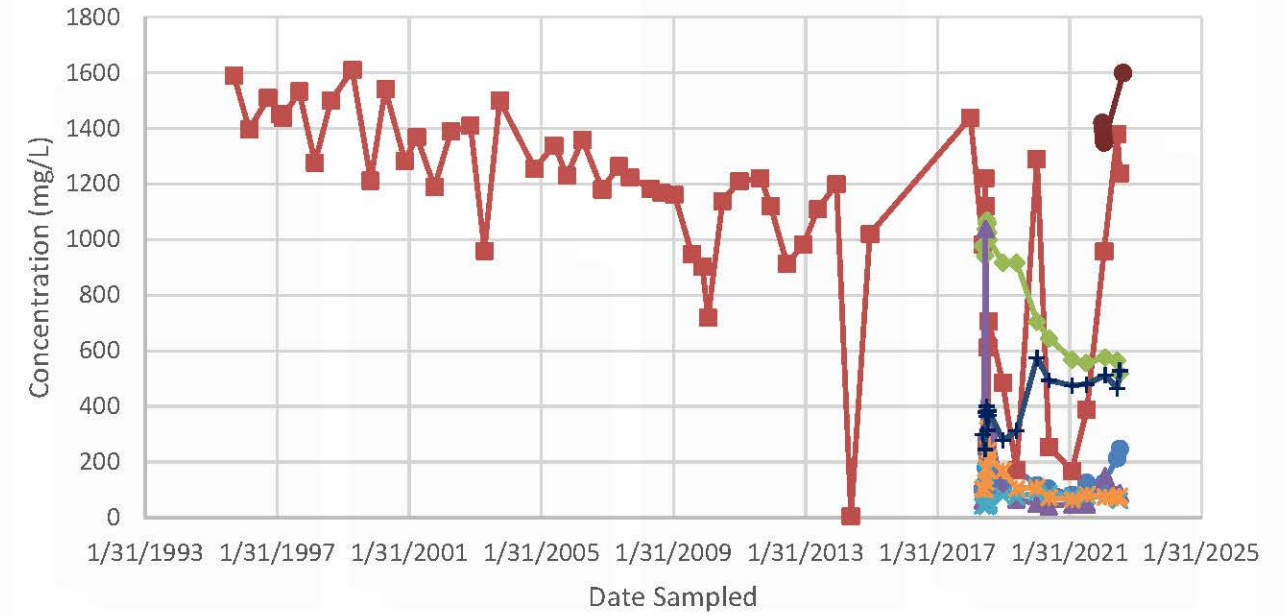
APPENDIX B-1
 TIME-SERIES PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022



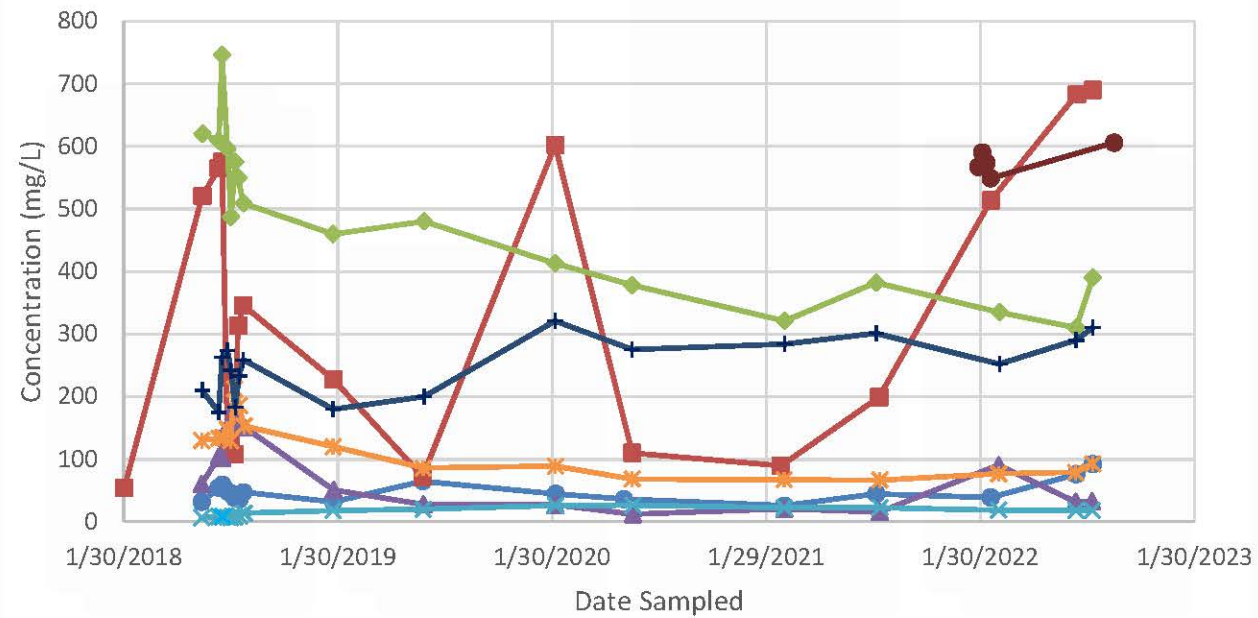
Calcium Concentration vs Time (1995-2022)



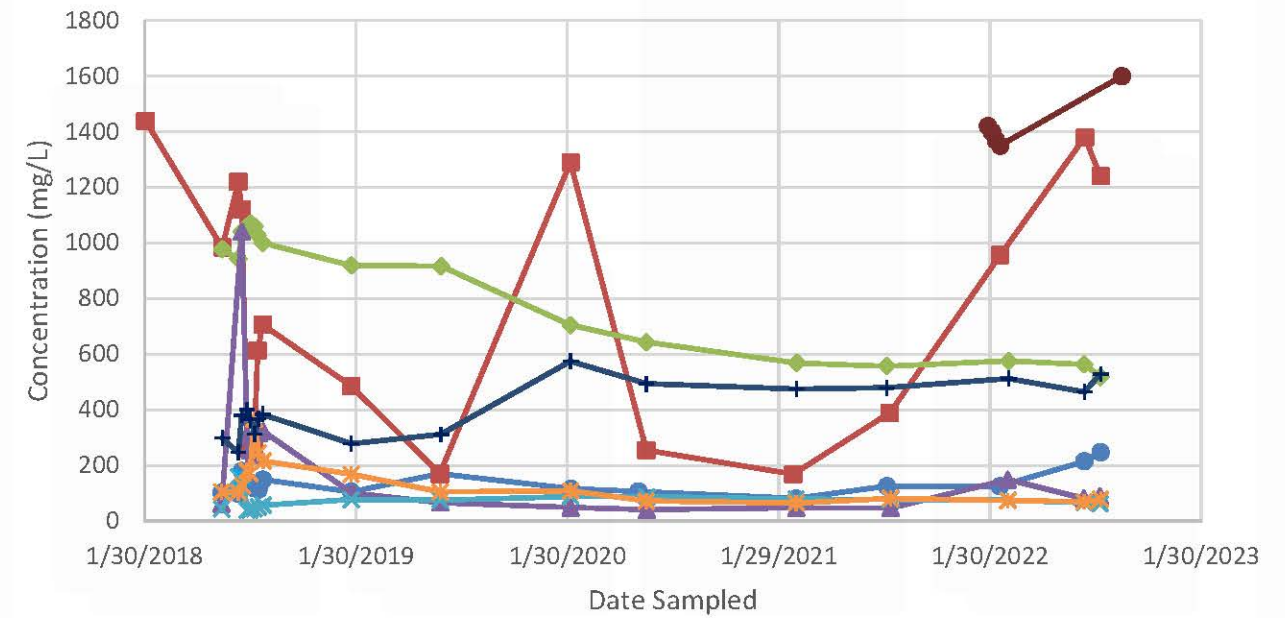
Sulfate Concentration vs Time (1995-2022)



Calcium Concentration vs Time (2018-2022)



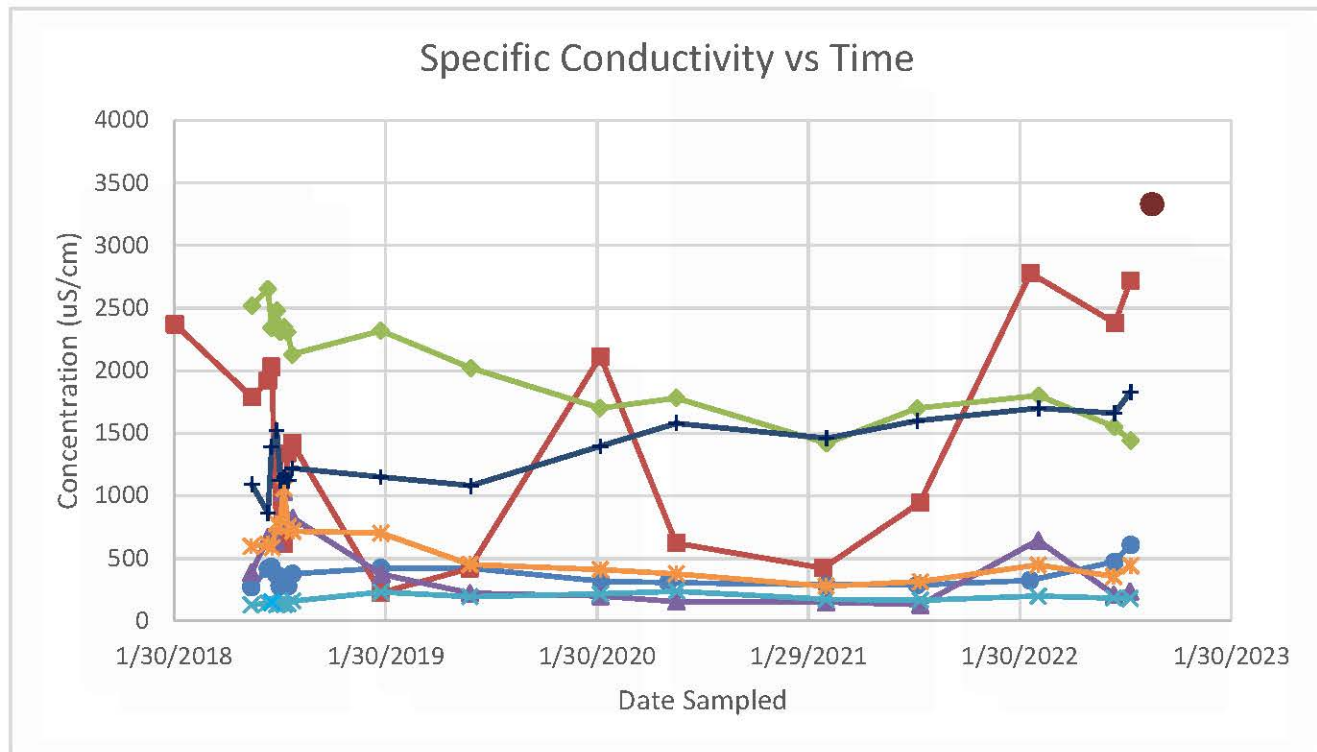
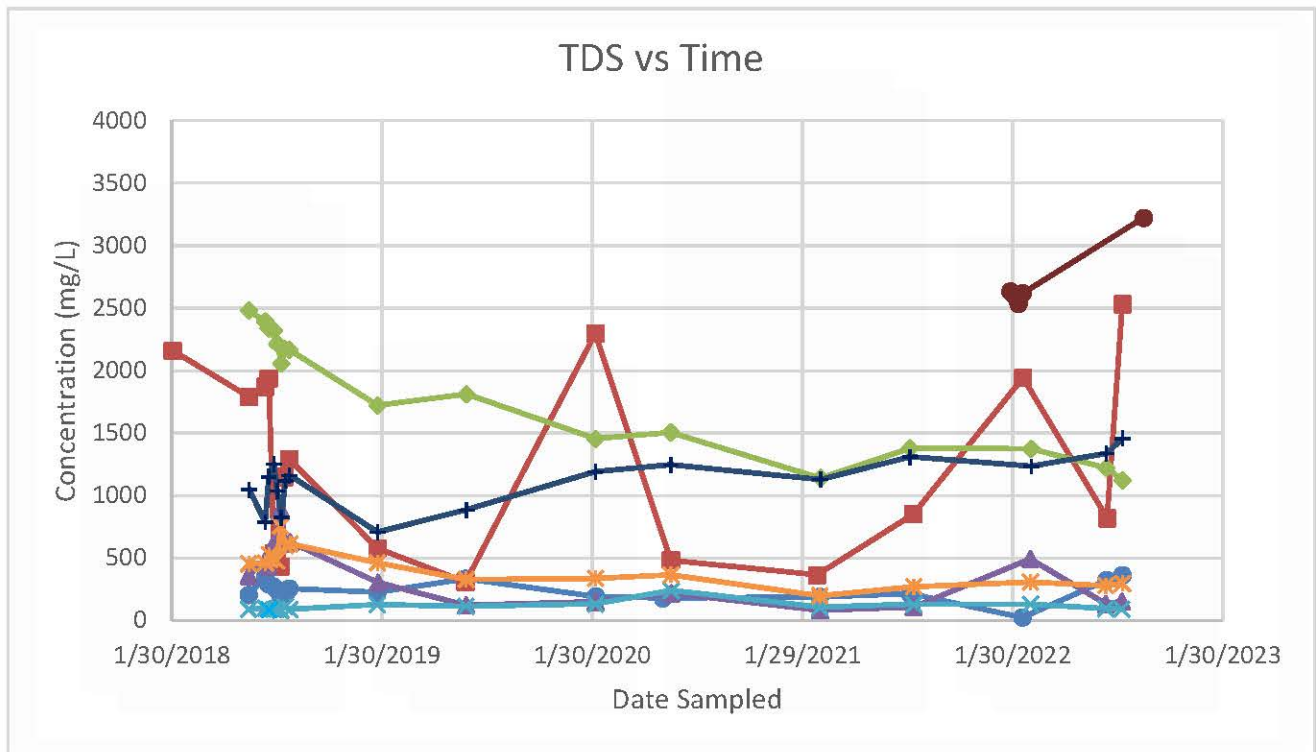
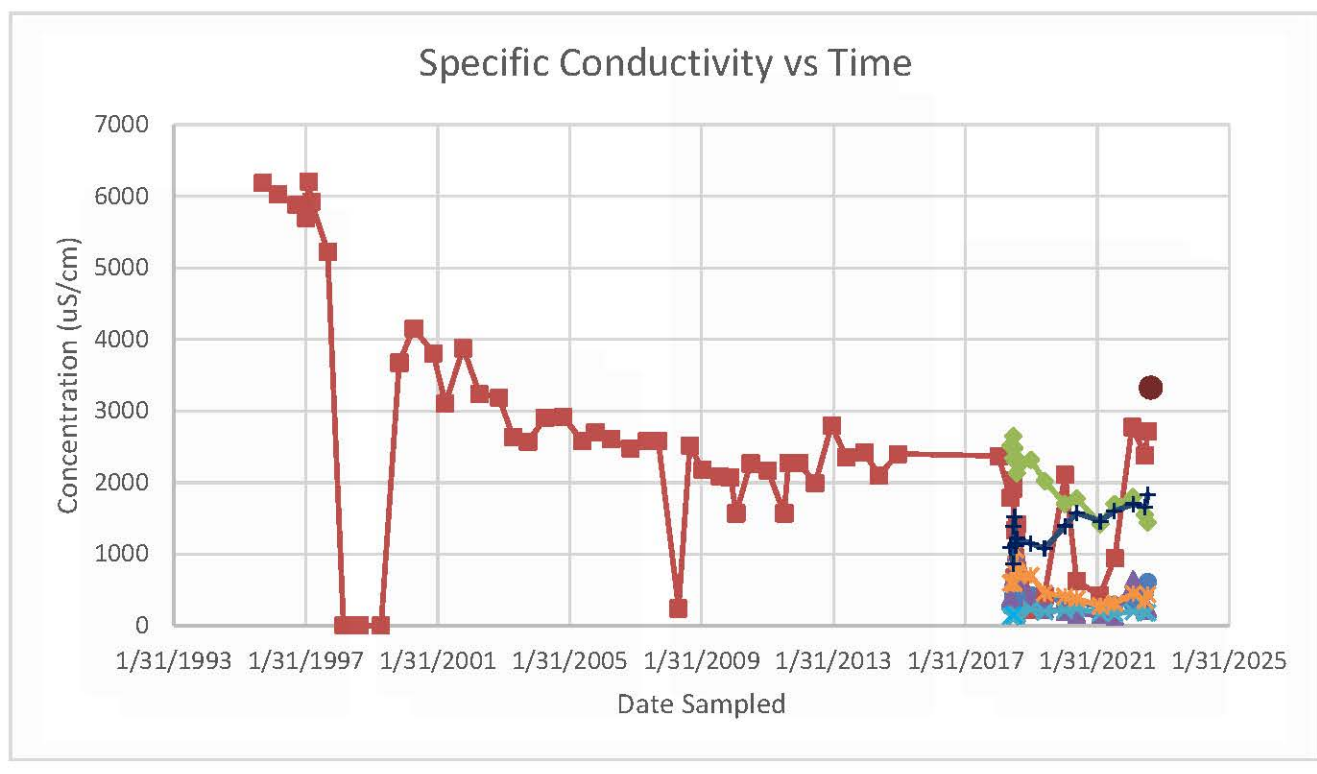
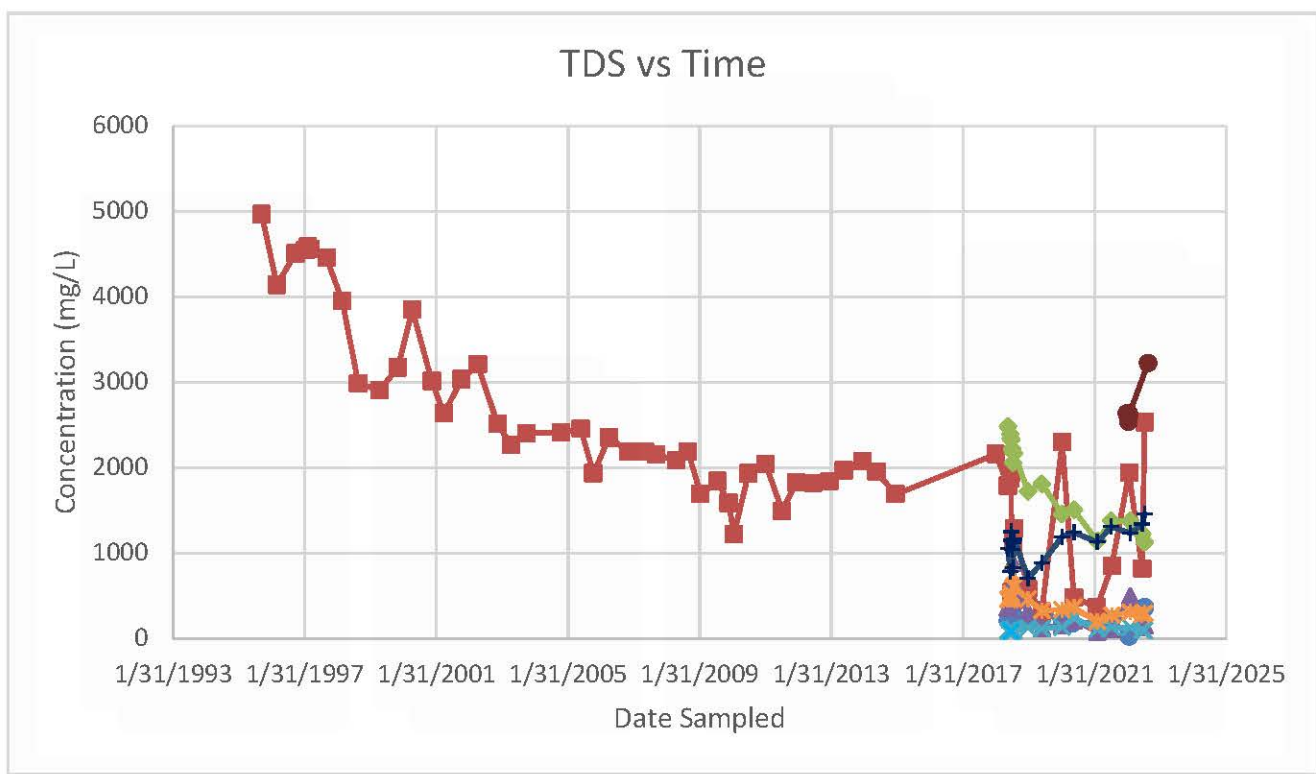
Sulfate Concentration vs Time (2018-2022)



- WBW-A1-1 ■ WAP-07 ◆ WLF-A1-1 ▲ WLF-A1-2
- ✕ WLF-A1-3 * WLF-A1-4 + WLF-A1-5 ● Leachate

APPENDIX B-2
 TIME-SERIES PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022

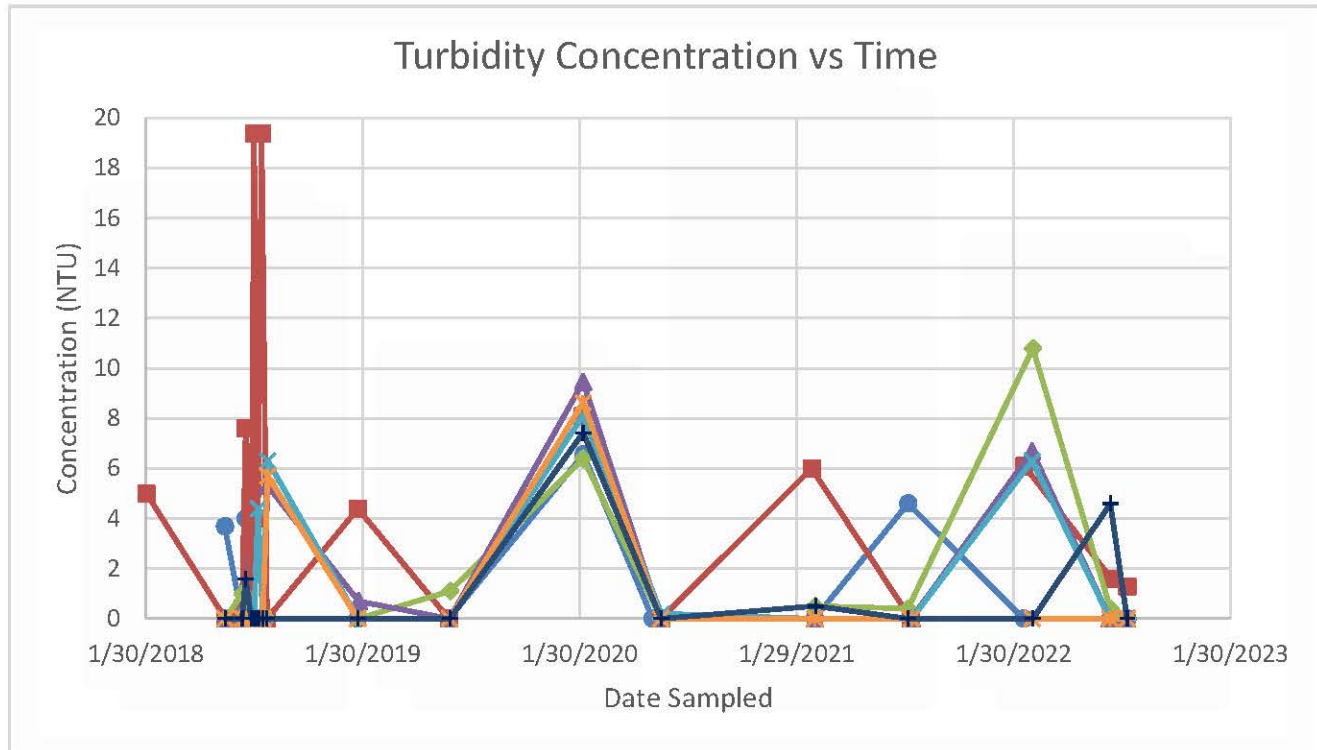
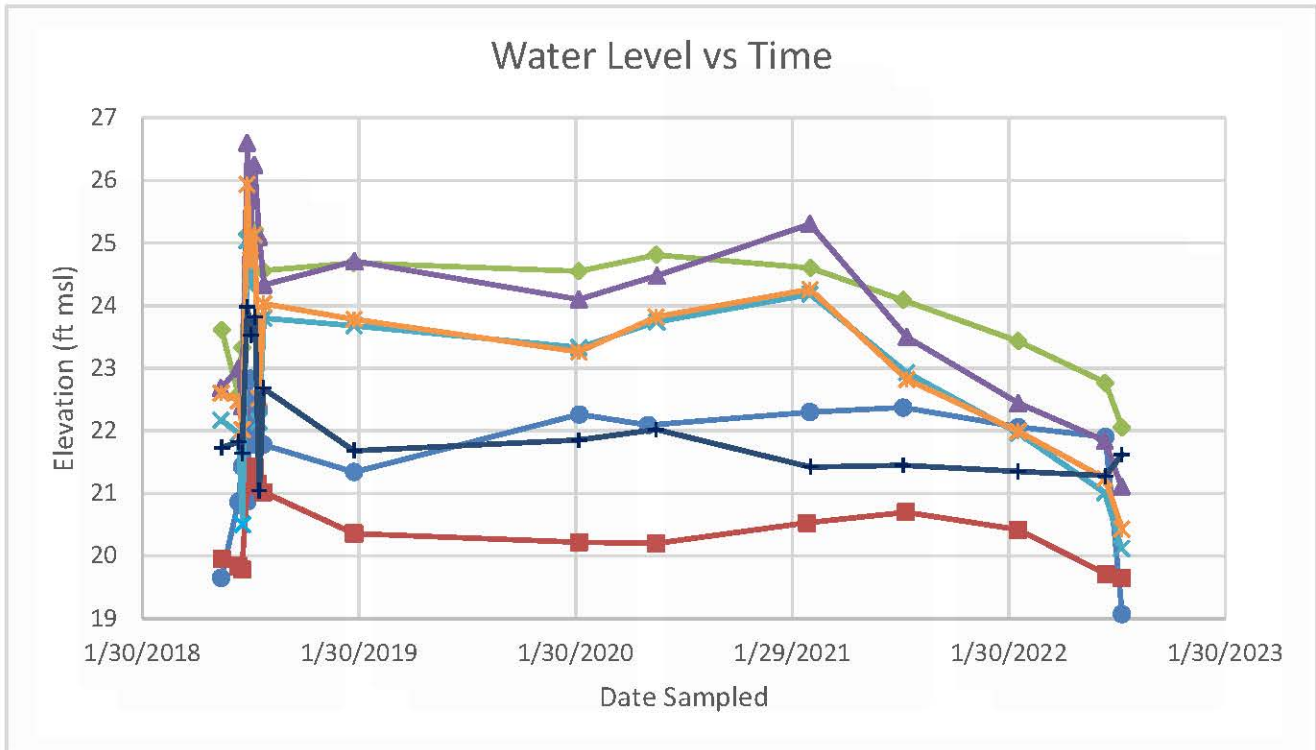
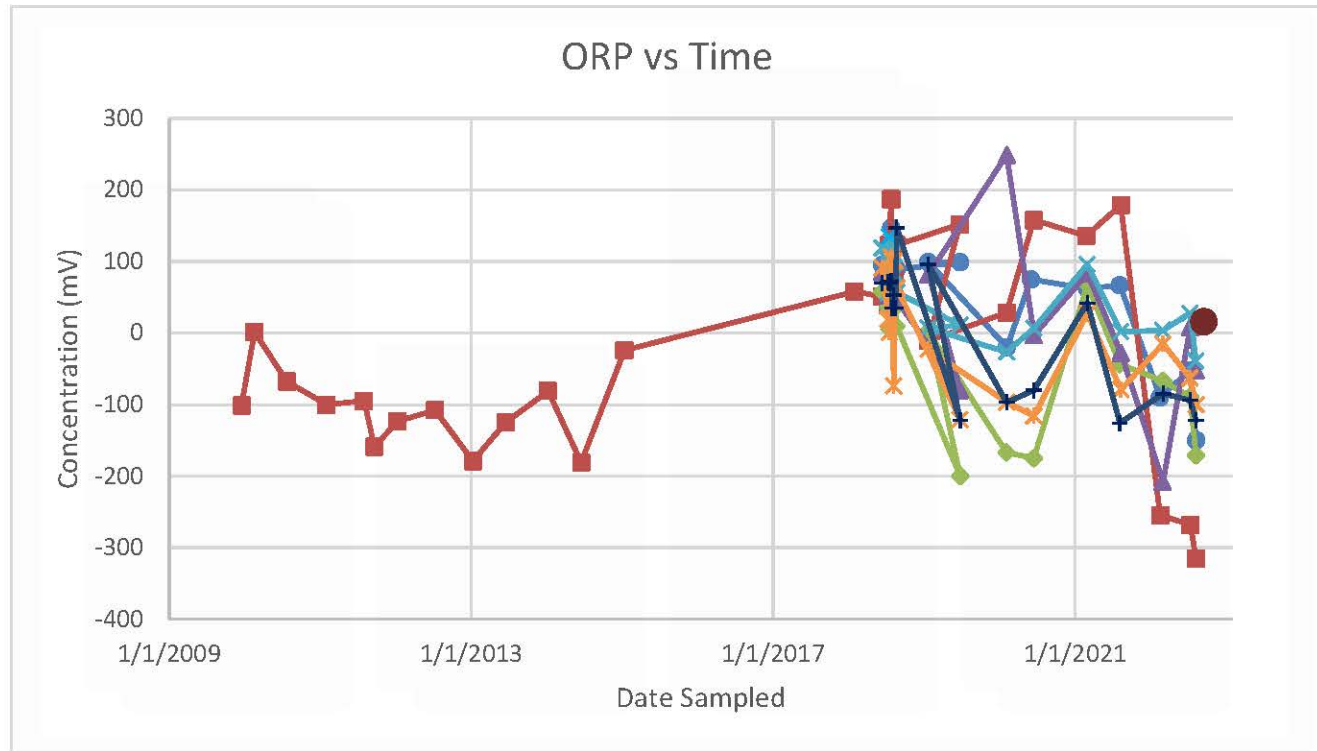
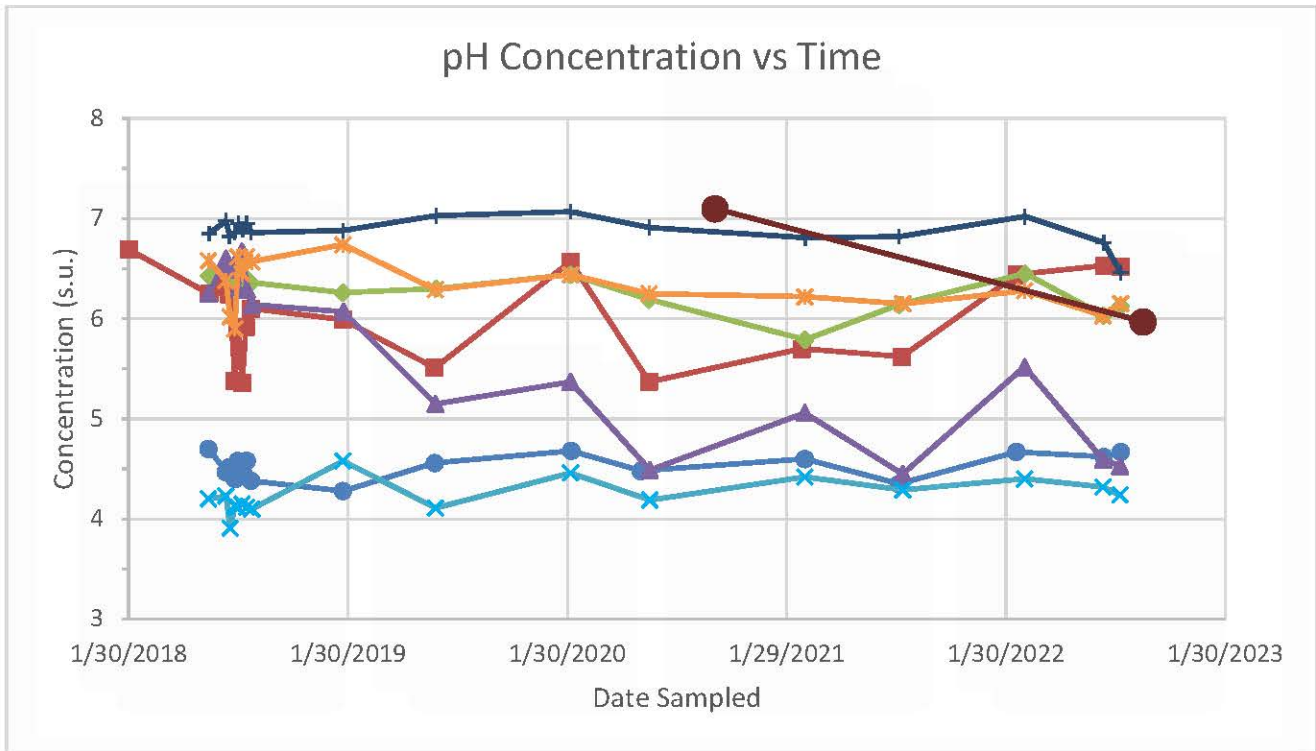




- WBW-A1-1 ■ WAP-07 ◆ WLF-A1-1 ▲ WLF-A1-2
- ✕ WLF-A1-3 ✱ WLF-A1-4 + WLF-A1-5 ● Leachate

APPENDIX B-3
 TIME-SERIES PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022





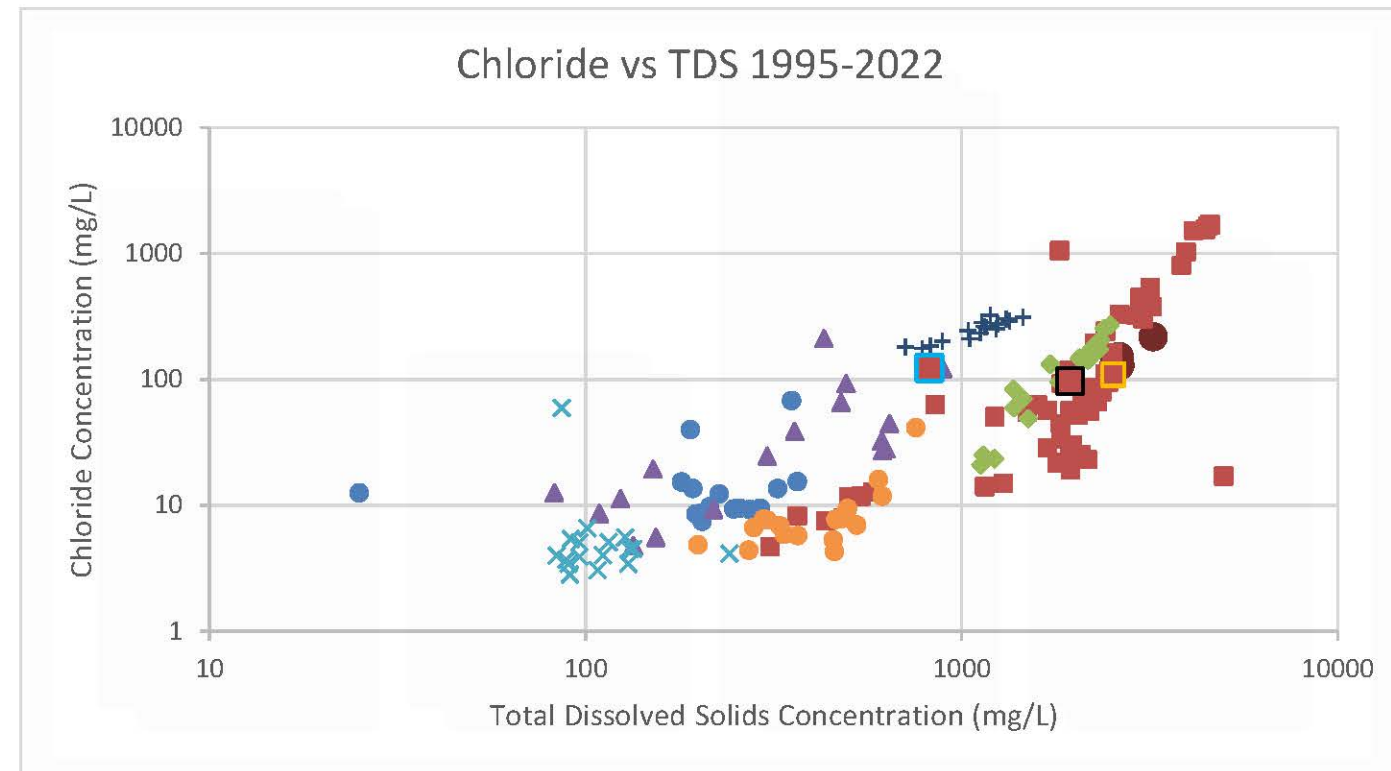
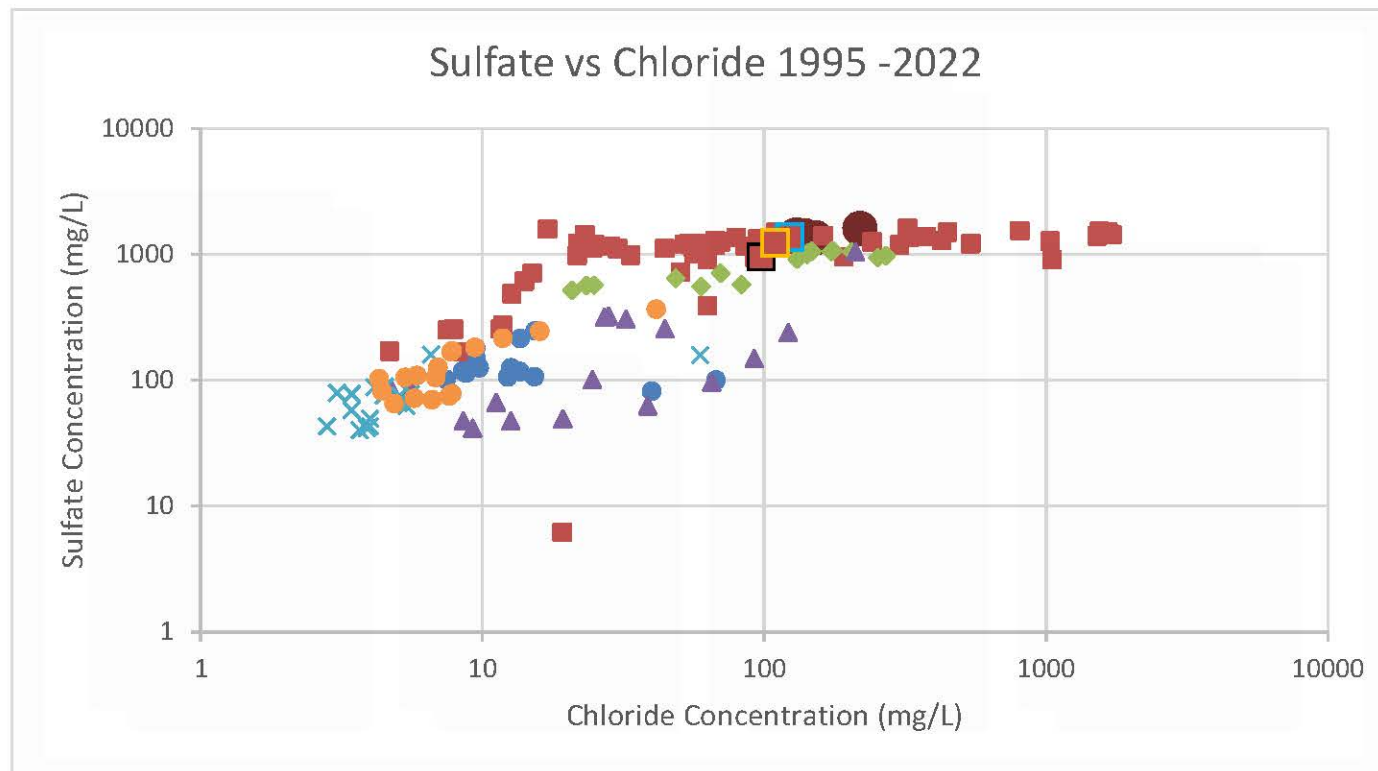
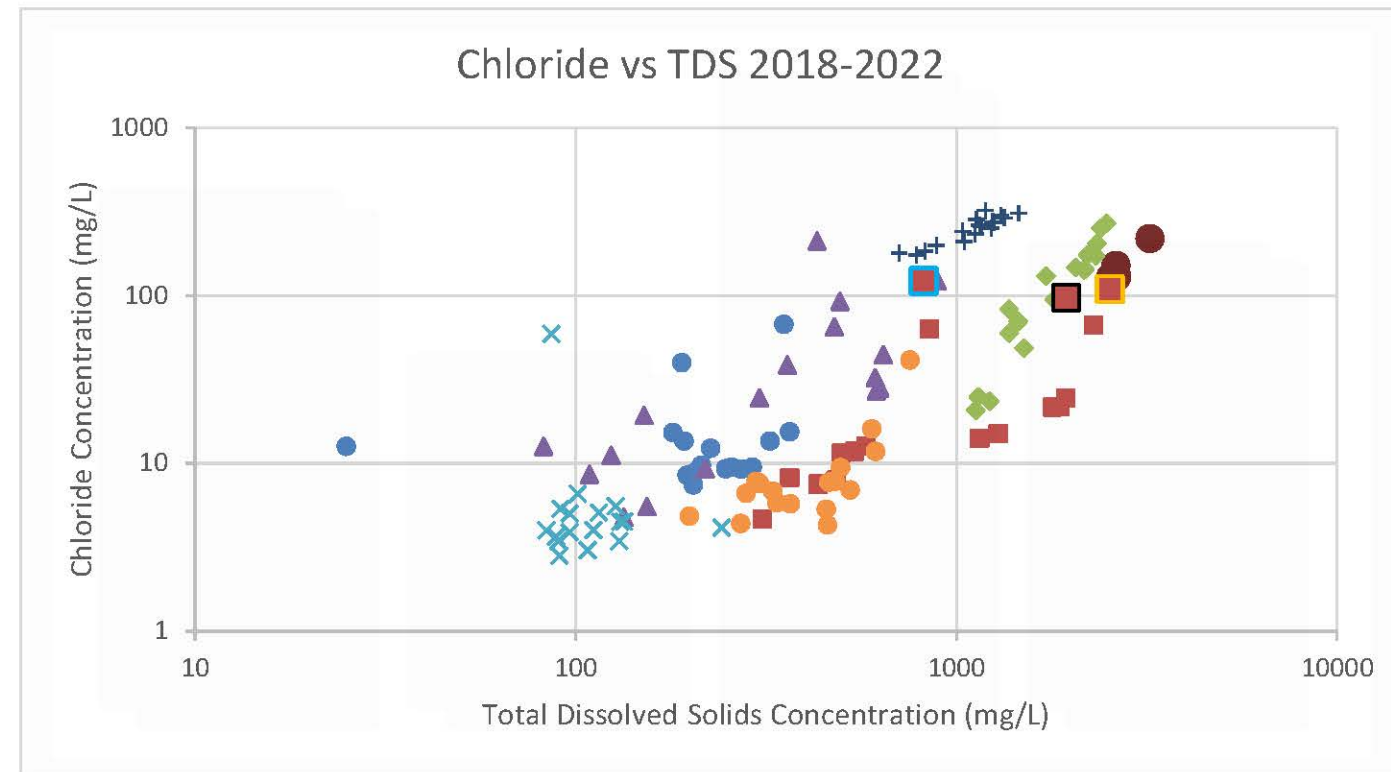
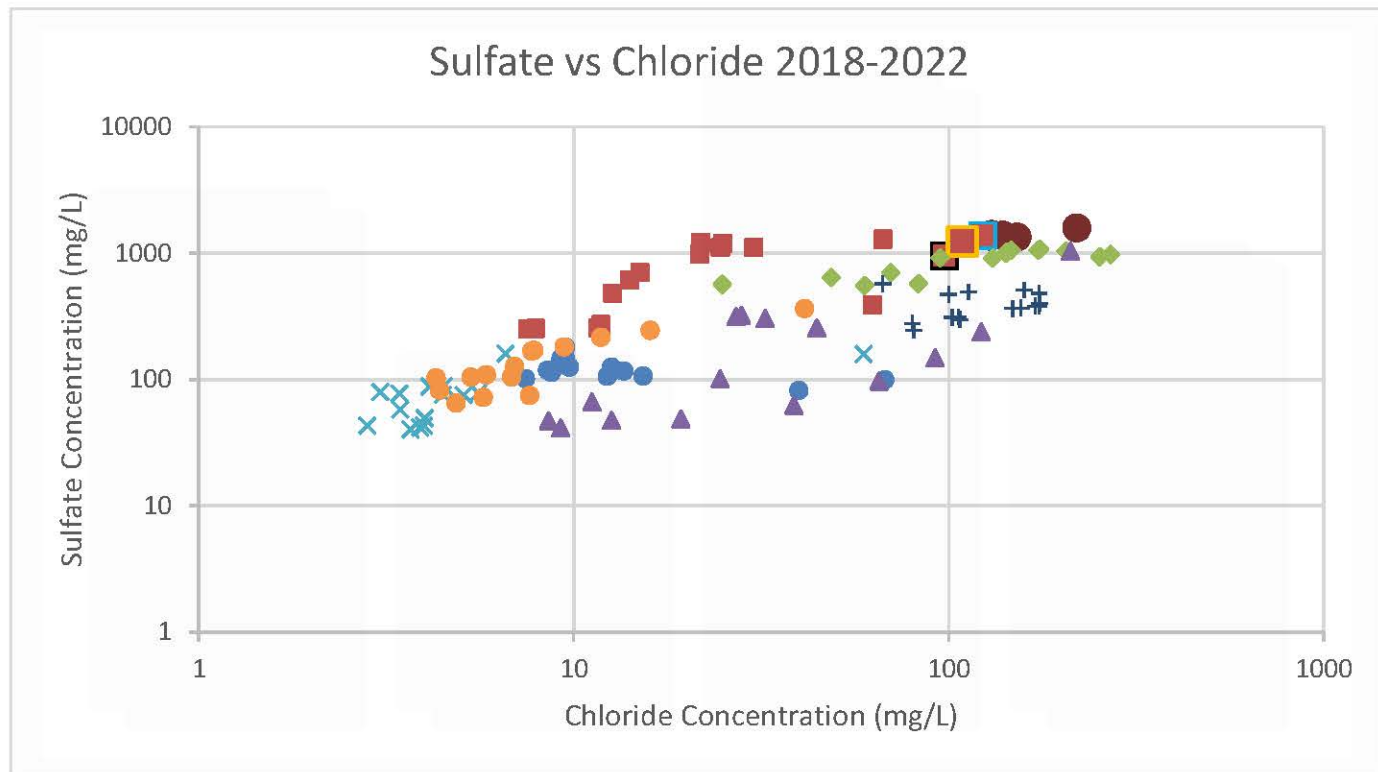
- -
- WBW-A1-1
WAP-07
WLF-A1-1
WLF-A1-2
WLF-A1-3
WLF-A1-4
WLF-A1-5
Leachate

APPENDIX B-4
 TIME-SERIES PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022



APPENDIX C

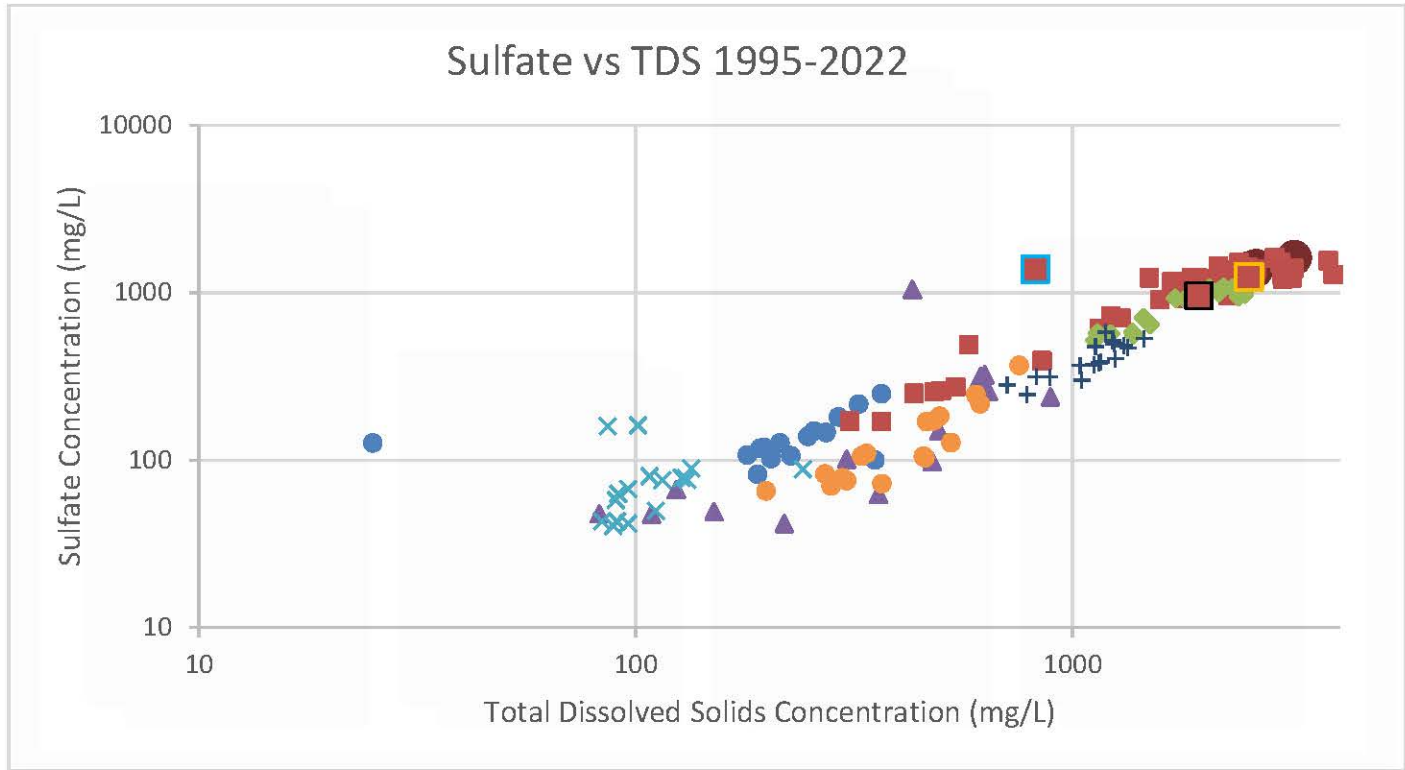
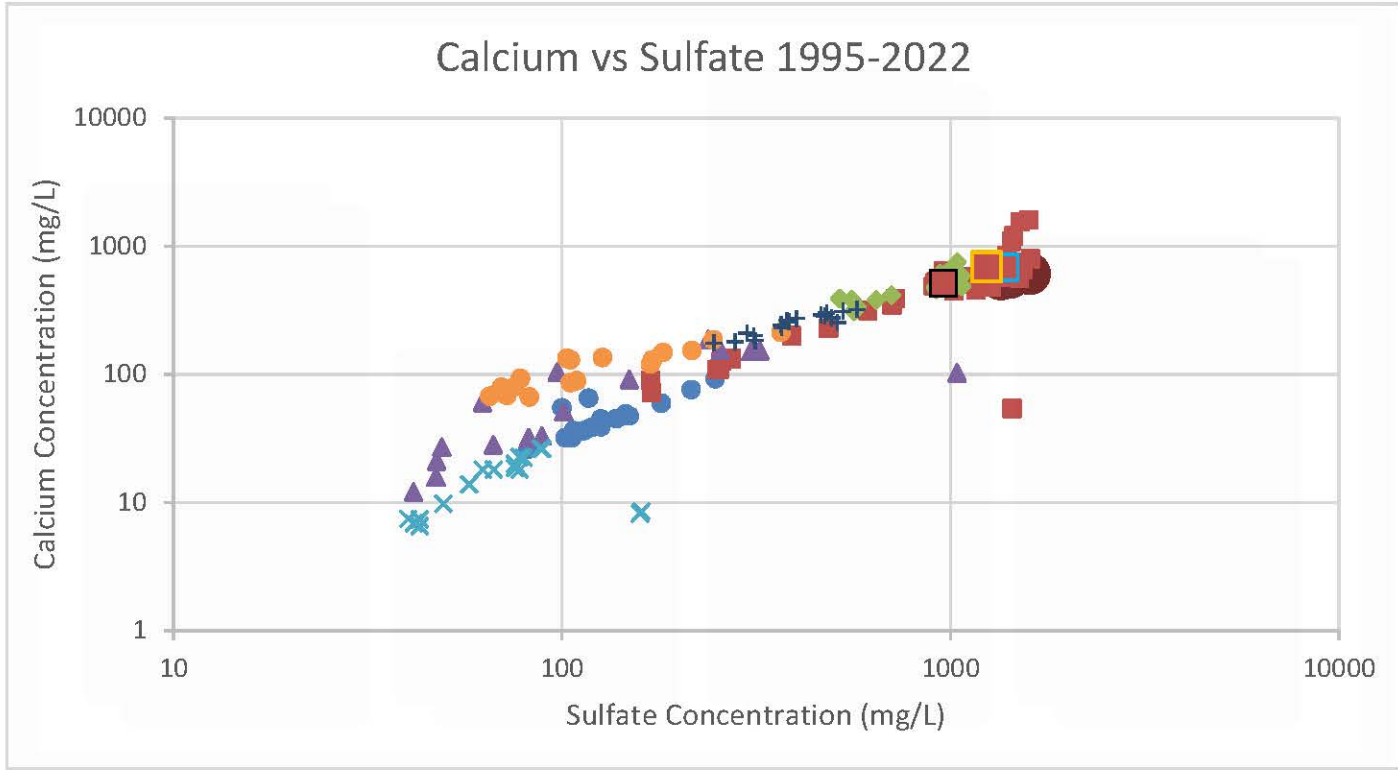
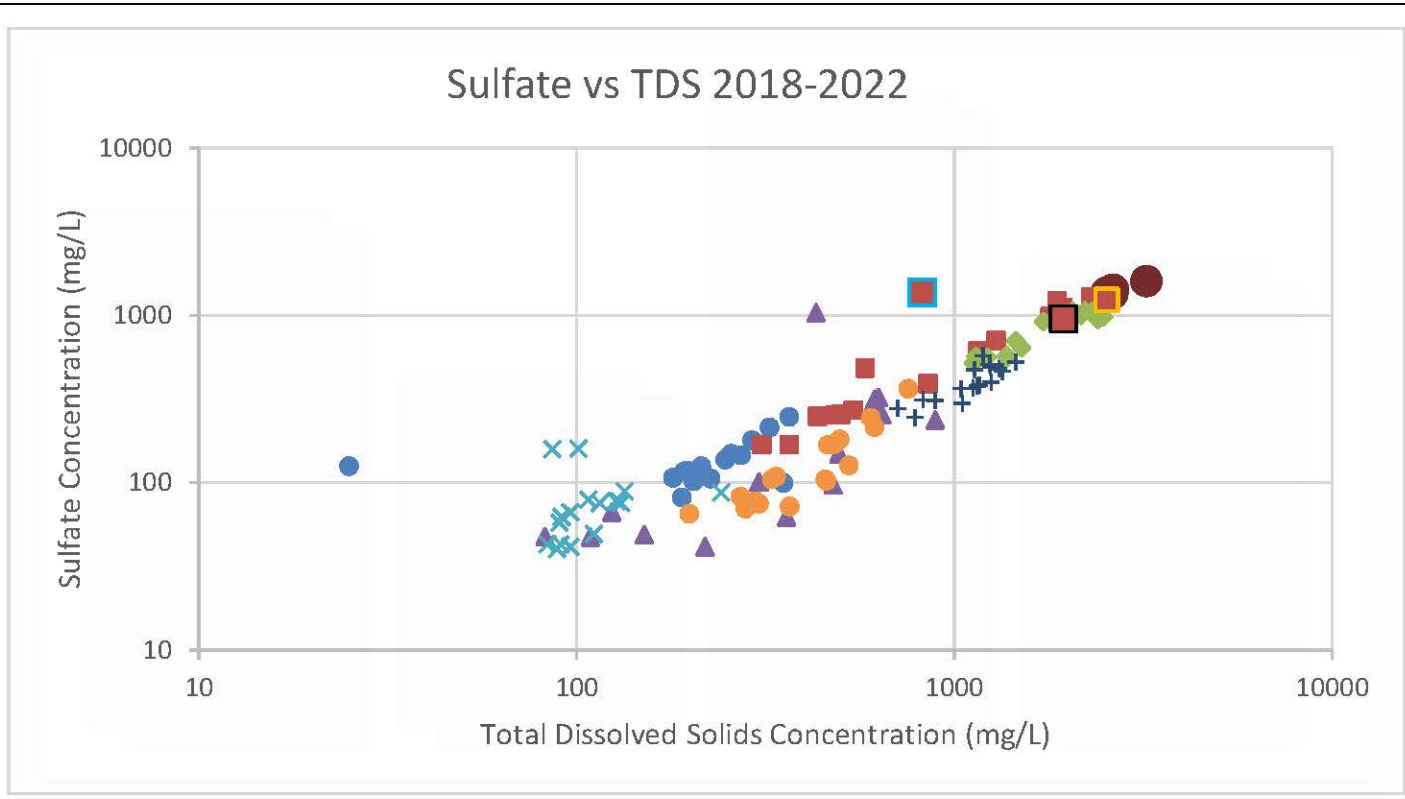
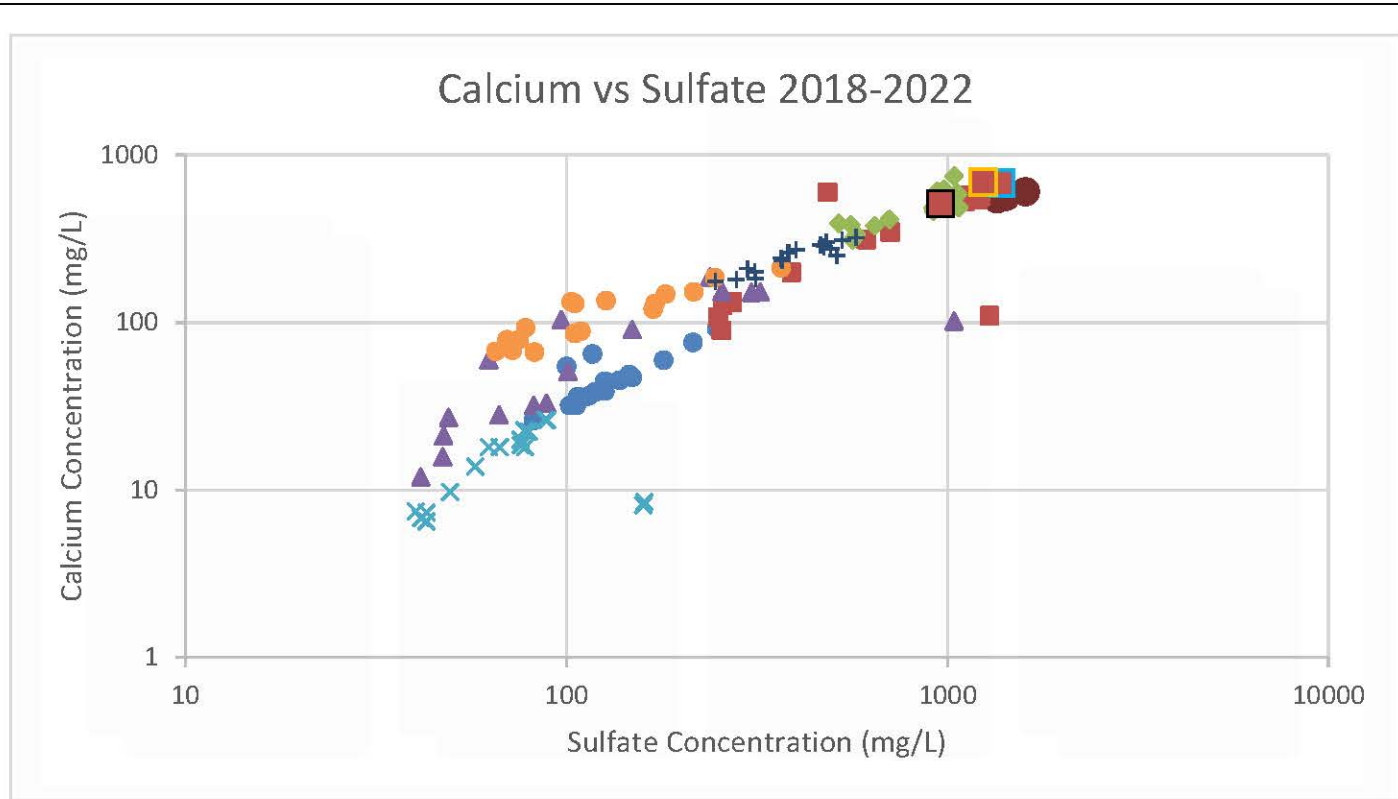
Bivariate Plots



- WBW-A1-1 ■ WAP-07 ◆ WLF-A1-1 ▲ WLF-A1-2
- × WLF-A1-3 ● WLF-A1-4 + WLF-A1-5 ● Leachate
- WAP-7 2/17/2022 ■ WAP-7 7/13/2022 ■ WAP-7 8/9/2022

Notes:
 Historical data (1995-2017) presented are for WAP-7 only.
 Data for 2018-2022 are for all site monitoring wells.

APPENDIX C-1
 BIVARIATE PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022

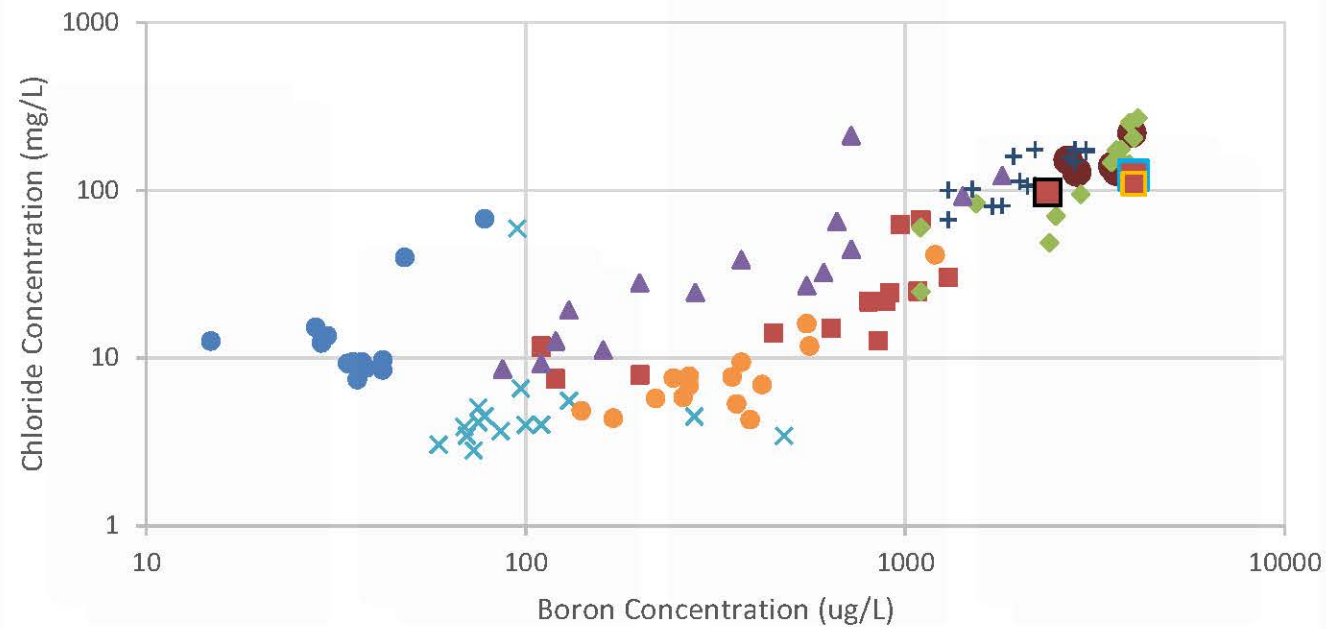


- WBW-A1-1 ■ WAP-07 ◆ WLF-A1-1 ▲ WLF-A1-2
- × WLF-A1-3 ● WLF-A1-4 + WLF-A1-5 ● Leachate
- WAP-7 2/17/2022 ■ WAP-7 7/13/2022 ■ WAP-7 8/9/2022

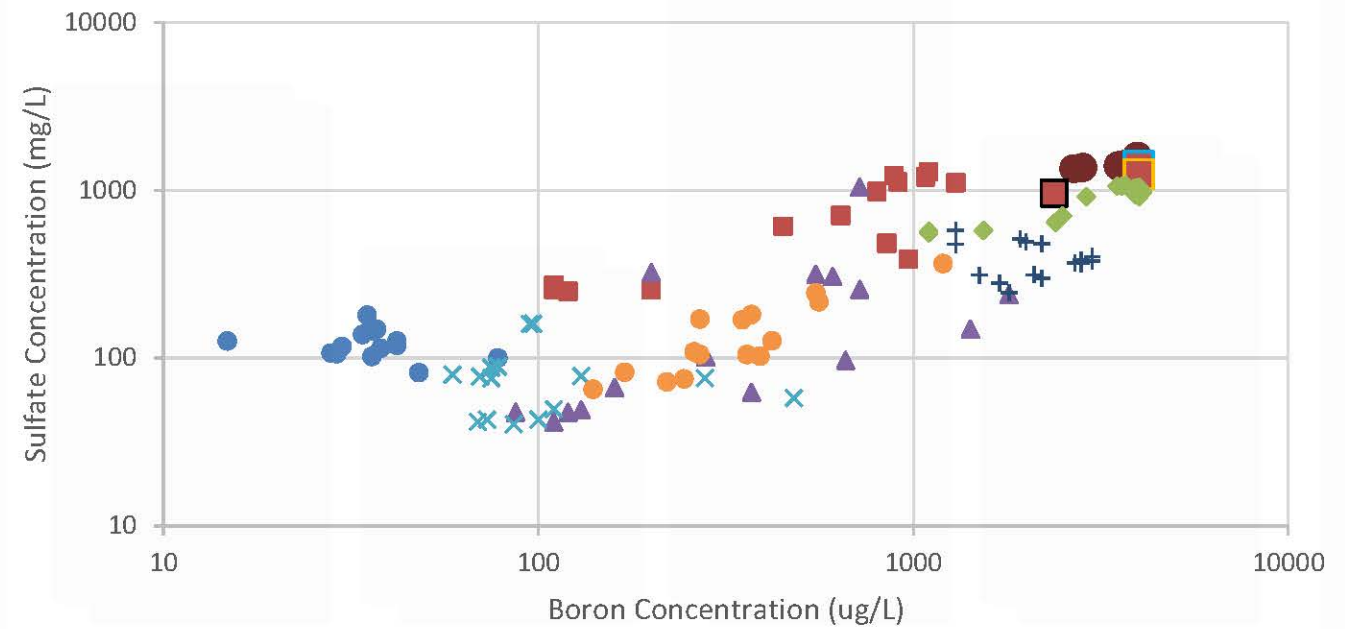
Notes:
 Historical data (1995-2017) presented are for WAP-7 only.
 Data for 2018-2022 are for all site monitoring wells.

APPENDIX C-2
 BIVARIATE PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022

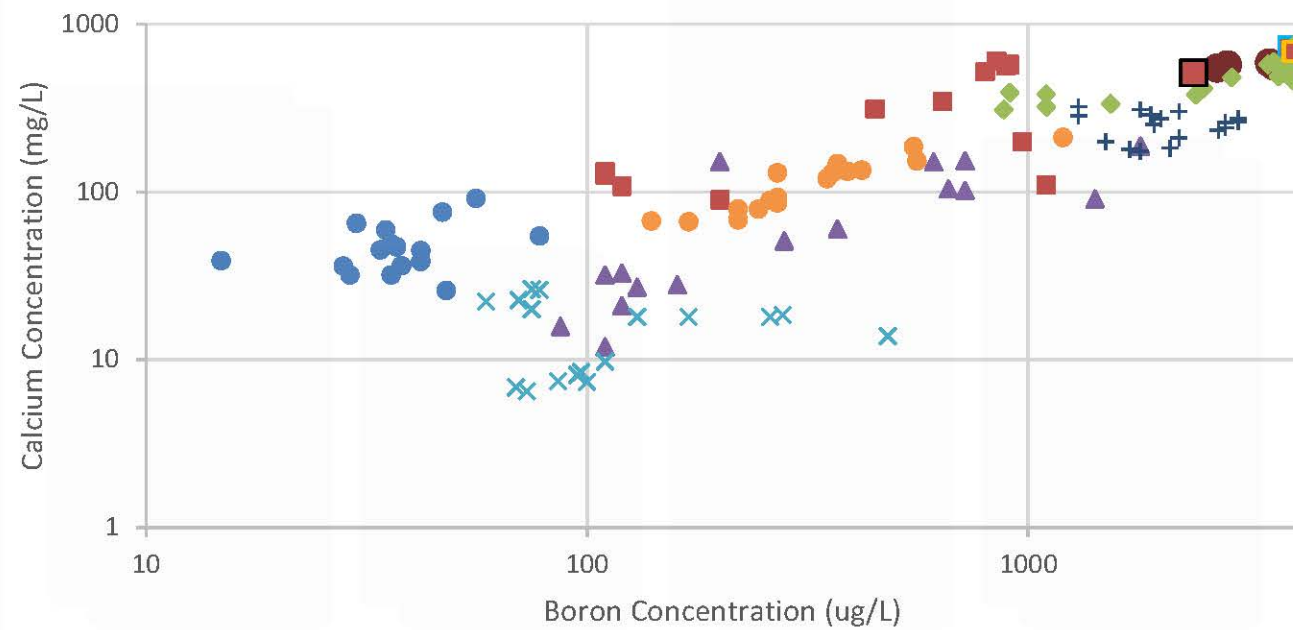
Chloride vs Boron 2018-2022



Sulfate vs Boron 2018-2022



Calcium vs Boron 2018-2022



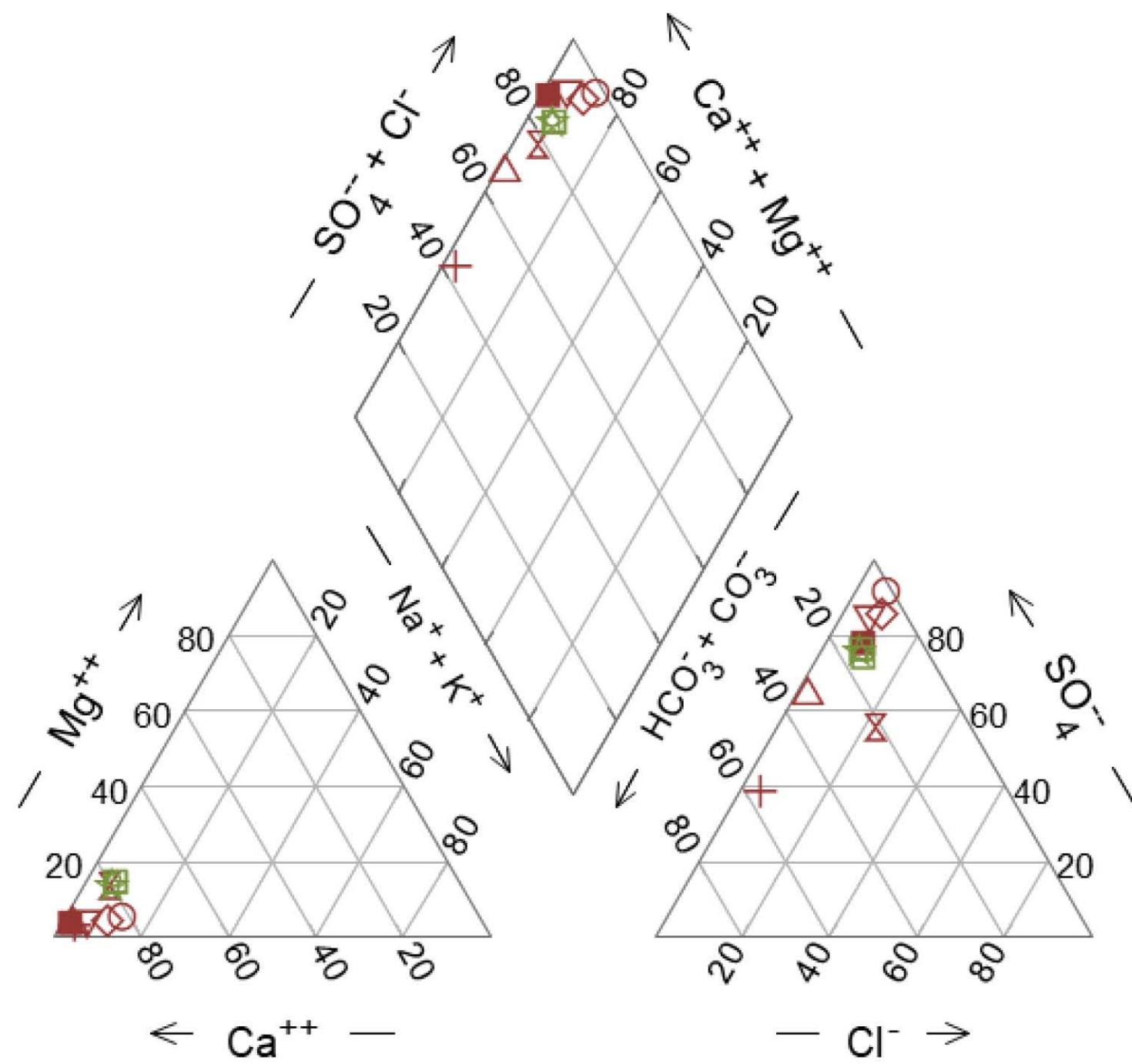
- WBW-A1-1 ■ WAP-07 ◆ WLF-A1-1 ▲ WLF-A1-2
- × WLF-A1-3 ● WLF-A1-4 + WLF-A1-5 ● Leachate
- WAP-7 2/17/2022 ■ WAP-7 7/13/2022 ■ WAP-7 8/9/2022

Notes:
 Historical data (1995-2017) presented are for WAP-7 only.
 Data for 2018-2022 are for all site monitoring wells.

APPENDIX C-3
 BIVARIATE PLOTS
 CLASS 3 LANDFILL AREA 1
 ALTERNATE SOURCE DEMONSTRATION
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA
 OCTOBER 2022

APPENDIX D

Piper Plots



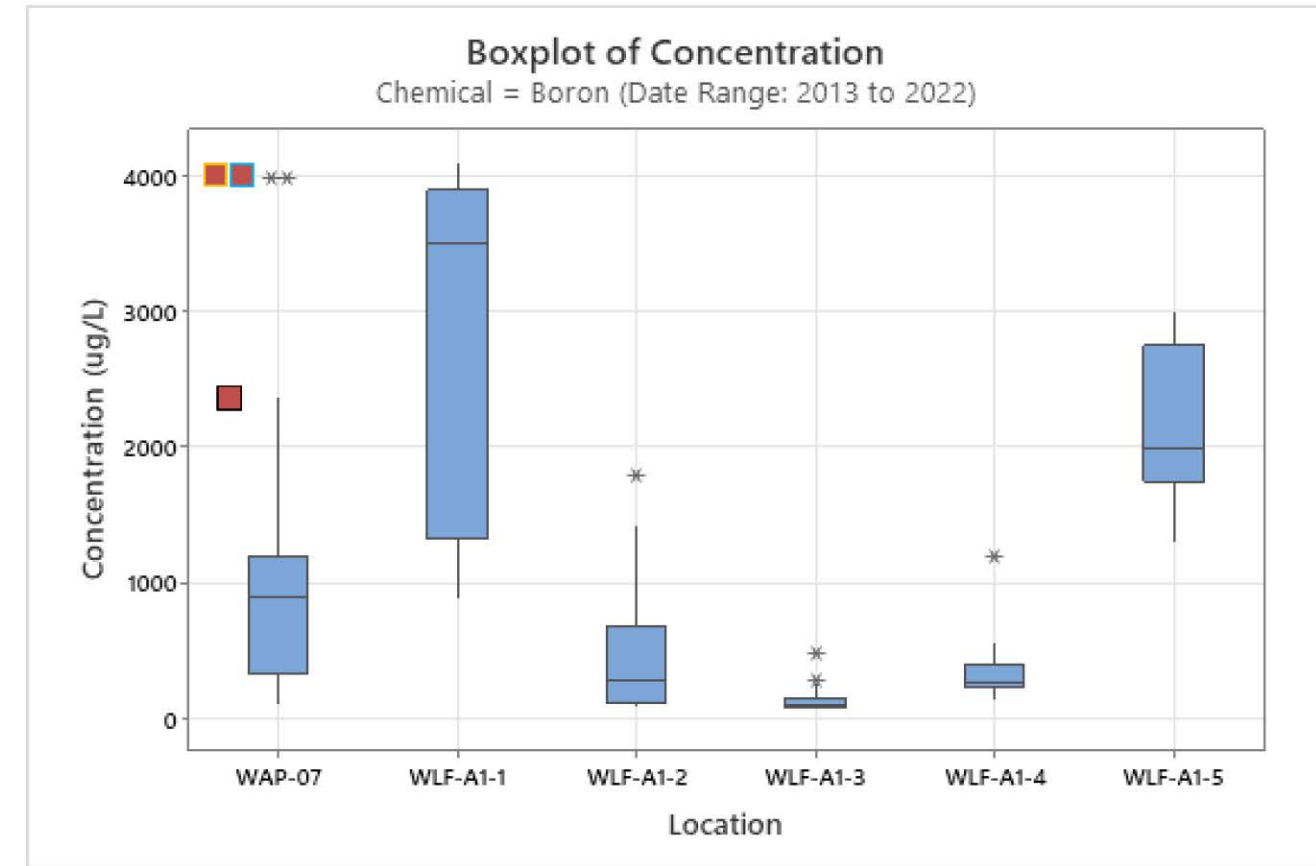
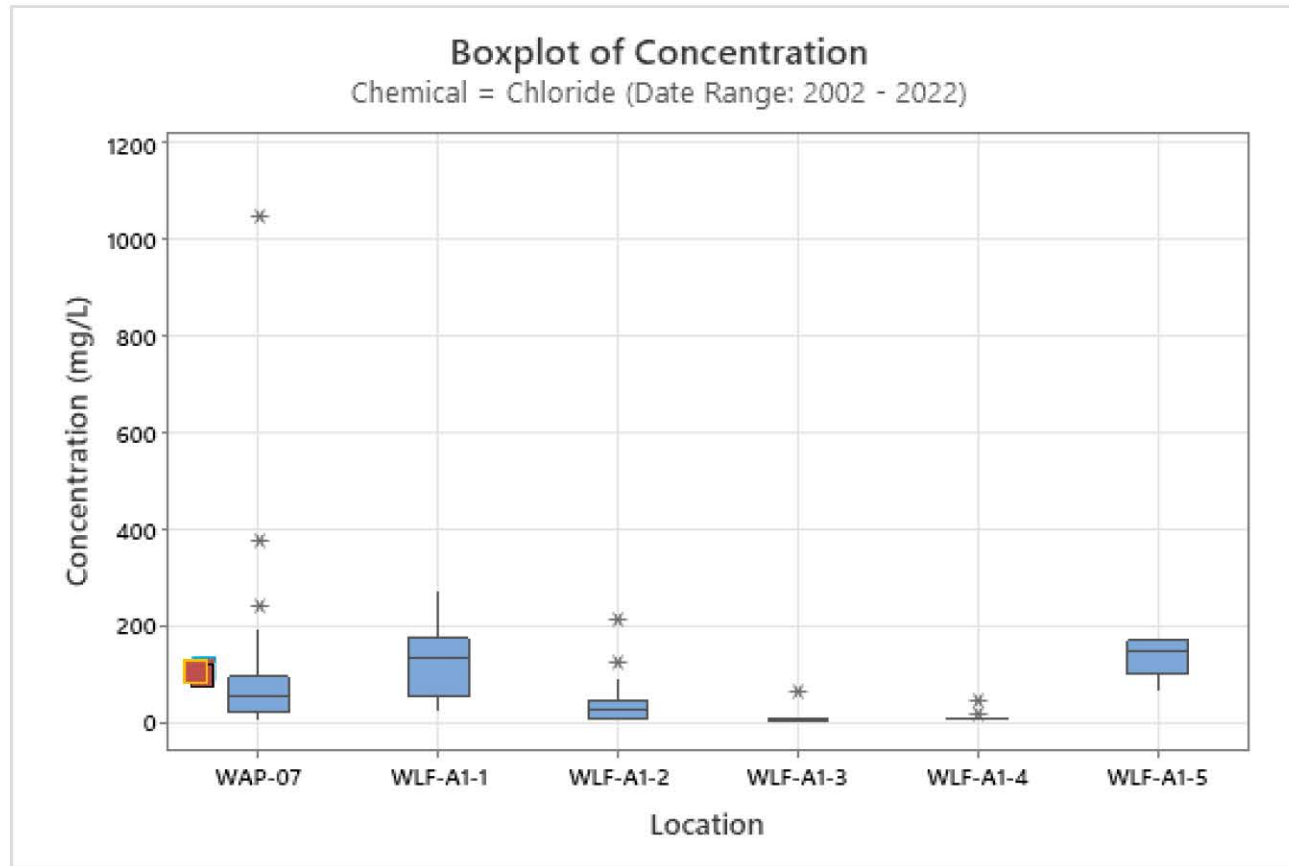
% meq/ kg

- WAP-7-8.9.2022
- WBW-A1-1-8.9.2022
- △ WLF-A1-1-8.9.2022
- ▽ WLF-A1-2-8.8.2022
- ◇ WLF-A1-3-8.8.2022
- + WLF-A1-4-8.9.2022
- ⊗ WLF-A1-5-8.9.2022
- WGS-Lechate-1.26.22*
- WGS-Lechate-2.2.22*
- ☆ WGS-Lechate-2.9.22*
- WGS-Lechate-2.16.22*

* = No alkalinity, WLF-A2-6 alkalinity concentrations used

APPENDIX E

Boxplots



■ WAP-7 2/17/2022
 ■ WAP-7 7/13/2022
 ■ WAP-7 8/9/2022

